

EDUCATIONAL SPECIFICATION

GENERIC HIGH SCHOOL

Grades 9 – 12
New Construction
Total Student Stations: 2,658
Utilization Factor: 95%
FISH Capacity: 2,525
Program Capacity: 2,500
Core Facilities: 2,500



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INTRODUCTION

These Educational Specifications are intended for use as a planning guide by architects and others responsible for developing physical facilities in Palm Beach County. The general concept embodied in the specifications is to provide general and adequate details for proposed spaces while leaving ample flexibility for creativity and options in design by the architects.

Philosophy and Goals of the School Board of Palm Beach County (SBPBC) are provided as general directions for programs in the School District and are followed by a listing of General Considerations. The facility list is intended to be a summary of the spaces to be provided, but is sufficiently flexible to accommodate design requirements and compatibility with adjacent space.

Specifications for the various program areas include a common listing of informational categories within each of the areas. Specific information relative to each particular area is included under various headings as follows:

- I. Program Philosophy
- II. Program Goals
- III. Program Activities
- IV. Organizational Nomenclature
- V. Innovations, Experimental Ideas, Other Planned Uses
- VI. Justification for Variance from S.R.E.F.
- VII. Program Facilities List
- VIII. Program Furniture and Equipment
- IX. Special Considerations

The graphic representations of Space Relationships are intended only to establish adjacencies and not to set design. Spaces shall be arranged for the various program areas in a configuration compatible with traffic control, site needs and the following considerations:

1. Facilities shall be as functional as possible; that is, they shall be organized in a manner responsive to educational programming requirements in an orderly economical way.
2. Facilities shall be as responsive as possible to long-term maintenance goals. The architect shall endeavor to produce a product with the lowest possible life cycle cost.
3. Facilities shall be as vandal-resistant as is possible within realistic budget constraints.
4. Facilities shall be as aesthetically pleasing as possible, considering neighborhood, shape, materials, colors, etc.
5. Facilities shall be designed to provide adequate student movement (circulation) without unnecessary waste.
6. Facilities shall be designed to facilitate the inclusion of students with disabilities.

Special attention is directed to planning for community utilization of the plant and campus, maximum energy conservation and capital budget restraints.

PHILOSOPHY AND GOALS

I. PROGRAM PHILOSOPHY

The Board's philosophy is to provide an educational system which is instructionally sound and environmentally stimulating enough to attract and maintain high-quality professional, technical and administrative employees. This system is designed to earn the respect of Palm Beach County, the community, state and nation.

The Board believes that successful implementation of its philosophy is highly dependent upon a positive, active, working partnership which includes the Board, administrators, teachers, staff, students, parents, community, business and industry. For this reason, the support requirements for this project were developed by a participatory process involving committees of educators, the Department of Secondary and Career, and various departments of the School District of Palm Beach County.

II. PROGRAM GOALS

A. Student Goals - Students shall acquire, to the extent of their individual physical, mental and emotional capacities, a mastery of the basic skills required in the curriculum.

- 1. Communication and Learning Skills** - All students shall be provided an opportunity to do the following:
 - a. Develop and apply basic skills in reading, writing, speaking, viewing and listening.
 - b. Gain a general education in broader fields of language arts, social studies, science, science, mathematics, humanities and vocational education.
 - c. Develop a desire for learning.
 - d. Develop a capacity for self-evaluation and self-direction.
 - e. Examine, analyze, evaluate and utilize various kinds of information.
- 2. Human Relations** - All students shall be provided an opportunity to do the following:
 - a. Develop a pride of accomplishment and a feeling of self-worth.
 - b. Learn to respect and get along with people.
- 3. Citizenship Education** - All students shall be provided an opportunity to do the following:
 - a. Develop good character and self-respect.

- b. Be responsible citizens.
 - c. Participate in democratic experiences and processes.
4. **Occupational Interests** - All students shall be provided an opportunity to do the following:
- a. Develop a positive attitude toward work.
 - b. Develop respect for the dignity of all occupations.
 - c. Acquire information needed for making appropriate job selections.
 - d. Develop the ability to use information as it relates to a particular vocation.
5. **Home and Family Relationships** - All students shall be provided an opportunity to do the following:
- a. Broaden an appreciation of the family as a social institution and as a basic unit of society.
 - b. Acquire skills and attitudes for management of family resources.
 - c. Acquire and understand the skills of family living.
6. **Mental and Physical Health** - All students shall be provided an opportunity to do the following:
- a. Develop good health habits and an understanding of the conditions necessary for maintenance of physical and emotional well being.
 - b. Acquire a knowledge of basic psychological and sociological factors affecting human behavior and mental health.
 - c. Develop competence for adjusting to changes.
 - d. Recognize and work to solve environmental health problems.
7. **Aesthetic and Cultural Appreciation** - All students shall be provided an opportunity to do the following:
- a. Develop an understanding and appreciation of human achievement in natural sciences, social sciences, humanities and the arts.
 - b. Broaden interests and prepare for productive use of leisure time.
 - c. Develop skills and creative abilities for self-expression.

8. **Inclusive Education** - All students shall be provided with the following:
 - a. Appropriate educational services in the least restrictive environment which will enable them to have full equality of opportunity.
 - b. Opportunities to interact academically and socially with students with various abilities and disabilities.
 - c. Opportunities to celebrate their differences and unique talents, and.
 - d. Access to facilities designed to accommodate their exceptionalities.

B. Management Goals

1. **General Management** - The SDPBC shall refine, implement and utilize management practices which will provide the following:
 - a. Planning and evaluation programs which will ensure accurate and adequate information for decision-making.
 - b. Administrative procedures which ensure that program planning, budgeting and evaluation systems are integrated and cyclical in nature.
 - c. Information services that promote timely acquisition of accurate information regarding district policies, procedures and activities which fulfill the needs of the district and the public.
 - d. Administrative and Instructional support for "school-based management" procedures and techniques.
 - e. System-wide support services for functions, processes and programs.
 - f. Continuing development, refinement, implementation and evaluation of instructional materials, processes and components of the curriculum.
 - g. Flexible organizational structure which clearly defines and delineates authority, responsibility and accountability.
 - h. Fiscal integrity in budgeting and business affairs.
2. **Personnel Management** - The schools district will develop and maintain the following:
 - a. Practices and programs to recruit the best qualified personnel for all positions.
 - b. Programs to orient all employees properly to their job responsibilities, operation and organization of their units, and organization of the school system.

- c. Staff Development Programs to update employees in their chosen fields and to enhance their professional and career growth.
- d. Develop programs to teach administrators at all levels how to achieve excellence in managing people, including performance, planning, evaluation and counseling.
- e. A system to identify high potential employees and their readiness status to qualify for higher career positions within the SDPBC.
- f. Practices and programs to attain effective affirmative action.
- g. Practices and systems to establish realistic position descriptions for each level and equitable compensation for those levels.

Facility List by Areas
Generic High School
Grades 9 - 12
Total Student Stations: 2,658
Utilization Factor: 95%
FISH Capacity: 2,525
Program Capacity: 2,500
Core Facilities: 2,500

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
ADMINISTRATIVE							
300	1	Principal (50 NSF from conference room)	250		300		
301	4	Administrative Office		175	700		
302	1	Bookkeeper			175		
303	1	Principal's Secretary			175		
304	1	General Reception/Secretary (500 NSF to Dean's Recept; 450 NSF to Student Services Recept & 300 NSF to Admin Suites)			1,000		
305	1	Production/Workroom			900		
306	2	Conference (50 NSF to principal, 680 NSF to Media & 300 NSF to Student Services Conference and remaining NSF to be split into 2 conference rooms)	1,750		720		
308	1	Administrative Storage (450 NSF to Academic House Storage/Vault & 200 to Student Service Storage)	1,250		600		
309	1	Records/Vault (375 to Student Records)	750		375		
301	5	Dean's Office		175	875		
304	1	Dean's Reception (from general reception)			500		
312	1	Computer Area/Data Processor			375		
301	2	Office for School Police		150	300		
301	1	Video Surveillance			150		
314	1	Itinerant			125		
314	1	Attendance/Itinerant			125		
819/820		Restrooms, staff (out of allotment)					
822/823		Restrooms, public (out of allotment)					
		Subtotal			7,395		
STUDENT SERVICES/GUIDANCE							
301	2	Administrative Office		175	350		
307	1	Clinic (Board approved prototype)			725		
368	1	Textbook Storage (300 NSF to Admin Suites)	875		575		
314	2	Itinerant		125	250		
309	1	Student Records (from Records/Vault in Admin)			375		
308	1	Student Service Storage (from Administrative Storage)			200		
306	1	Conference (from administrative conference)			300		
304	1	Reception/Secretary (450 NSF from General Reception & 150 NSF for secretary)			600		
313	1	Careers Room			750		
		Subtotal			4,125		

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
SATELLITE ADMINISTRATIVE SUITES							
304	3	Reception/Secretary (300 NSF from General Reception/Secretary & 450 NSF for Secretary)		250	750		
301	3	Administrative Office		175	525		
314	3	Itinerant		125	375		
308	3	Storage/Vault (from Administrative Storage)		150	450		
368	3	Textbook Storage (from Administrative Textbook Storage)		100	300		
315	3	Teacher Planning (from allotment)					
819/820		Restrooms, staff (from allotment)					
		Subtotal			2,400		
		TOTAL			13,920		
ART							
052	2	Laboratory		1,484	2,968	28	56
805	2	Kiln (combined into 1)		60	120		
808	2	Material Storage		100	200		
812	2	Project Storage		150	300		
803	2	Darkroom (combine into 1)		100	200		
		TOTAL			3,788		56
AUDITORIUM/STAGE							
360	1	Seating for 835			7,500		
363	1	Stage (990 NSF allowable plus 830 NSF from Reading Room)	990		1,820		
852	1	Technical/Construction Workshop (from (3) Resource Room)			1,170		
364	1	Storage (including piano storage)			1,250		
365/366	2	Dressing Rooms		625	1,250		
367	1	Video Control Room/Projection Room (100 NSF from Reading/Stacks)	100		200		
370	1	Lobby/Art Gallery			1,250		
371	1	Concession			200		
372	1	Ticket Booth			30		
081	1	Green Room/Recording (from Music)			225		
815/816		Restroom, student (from allotment)					
822/823		Restroom, public (from allotment)					
		TOTAL			14,895		
COMPUTER/SKILLS LABORATORY							
012	3	Skills Development Laboratory		900	2,700	25	75
808	3	Material Storage		45	135		
		TOTAL			2,835		75

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
CUSTODIAL							
330/331		Central Receiving, Toilets, Lockers, Showers, Custodial Closets, Workroom & Office (250 NSF to PE Storage)	3,750		3,500		
333	1	Flammable Storage			155		
334	1	Equipment Storage			500		
334	1	Golf Cart Storage (from dining)			450		
		TOTAL			4,605		
DRIVER'S EDUCATION							
003	1	Classroom		810	810	25	25
808	1	Material Storage		45	45		
040	1	Resource Room (combine into 1 space)			780		
		TOTAL			1,635		25
EXCEPTIONAL STUDENT EDUCATION							
061	5	Part-Time Classroom		900	4,500	15	75
808	5	Material Storage		45	225		
		Subtotal			4,725		
062	5	Self Contained Classroom		900	4,500	10	50
808	5	Material Storage		45	225		
817	5	Restroom, Student		45	225		
		Subtotal			4,950		
063	1	Laboratory		1,140	1,140	12	12
808	1	Material Storage		45	45		
817	1	Restrooms & Showers		110	110		
		Subtotal			1,295		
ESE Administrative Suite							
304	1	Reception/Secretary		225	225		
301	2	Office		150	300		
306	1	Conference/Planning/Testing		300	300		
308	1	Storage		100	100		
819/820		Staff Restroom (from allotment)			-		
		Subtotal			925		
066	2	Supplementary Instruction		200	400		
70	4	Office/Testing/Itinerant		200	800		
		Subtotal			1,200		
065	5	ESE Resource Room with storage folded into room		520	2,600		
		Subtotal			2,600		
817	1	ESE Changing Room/Restroom			150		
308	2	ESE Department Storage		200	400		
		Subtotal			550		
		TOTAL			16,245		137

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
FOOD SERVICE							
340	1	Dining (450 NSF to Custodial Golf Cart Storage & 800 to PE Weight Room)	9,000		7,750		
341	1	Kitchen (including office and restroom - prototype) (600 NSF to stadium press box)	8,790		8,190		
349	1	Chair Storage			500		
316	1	Staff Dining/Lounge			1,000		
819/820		Staff Restrooms (out of allotment)					
815/816		Student Restrooms (out of allotment)					
		TOTAL			17,440		
FOREIGN LANGUAGE							
003	5	Classroom		810	4,050	25	125
808	5	Material Storage		45	225		
		TOTAL			4,275		125
GENERAL CLASSROOMS							
003	24	Classroom		810	19,440	25	600
808	24	Material Storage		45	1,080		
		TOTAL			20,520		600
LANGUAGE ARTS							
003	9	Classroom		810	7,290	25	225
808	9	Material Storage		45	405		
		TOTAL			7,695		225
MEDIA CENTER							
380	1	Reading Room/Stacks (to include Group Projects, Periodical Storage & Small Group Listening) (830 NSF to stage in auditorium, 600 NSF to Tech Instruction, 100 NSF to video control in auditorium)(605 NSF from Tech Processing)	10,050		9,125		
381	1	Technical Processing/Library Media Specialist's office)(605 NSF to Reading/Stacks)	955		350		
382	1	Professional Library/Media Production/Copying Room)			1,930		
383	1	AV Storage/Maintenance and Repair/CCTV Storage			1,500		
306	1	Conference Room (from Administrative Conference)			680		
385	1	CCTV Studio - Production and Control (1000 NSF for Studio & 750 NSF for Control)			1,750		
390	1	Technology Instruction (from reading/stacks)			600		
819/820		Staff Restrooms (out of allotment)					
		TOTAL			15,935		

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
MATHEMATICS							
003	8	Classroom		810	6,480	25	200
808	8	Material Storage		45	360		
		TOTAL			6,840		200
MUSIC							
075	1	Vocal Music Classroom			1,596	28	28
830	1	Ensemble Room			300		
831	2	Practice Room (from (3) practice rooms)		105	210		
806	1	Reference Room/Material Storage			200		
833	1	Robe Storage			150		
852	1	Piano Keyboard (from (2) Resource Room)			780		
315	1	Teacher Planning			100		
		Subtotal			3,336		
076	1	Band Classroom			2,000	50	50
830	1	Ensemble Room			300		
831	3	Practice Room		70	210		
806	1	Reference Room/Material Storage			200		
832	1	Instrument Storage			600		
834	1	Uniform Storage			300		
835	1	Studio			180		
	1	Recording Room (to Green Room in Auditorium)					
082	1	Instrument Repair			110		
315	1	Teacher Planning			100		
		Subtotal			4,000		
		TOTAL			7,336		78
PHYSICAL EDUCATION							
090/091	2	Dressing Rooms		1,500	3,000		
092/093	2	Lockers		250	500		
094/095	2	Showers		250	500		
096/097	2	Drying		250	500		
098	1	PE Storage			1,125		
815/816	2	Restrooms		250	500		
315	2	Teacher Planning		250	500		
315	2	Teacher Planning - Advance P.E.		100	200		
301	1	AD Office (150 NSF from PE Multipurpose)			150		
099/100	4	Teacher Restrooms>Showers		66	264		
117	1	Weight Room (800 NSF from Dining)	1,000		1,800		
115	1	First Aid/Training Room			500		
110	1	Multipurpose Room (150 NSF to AD Office)	1,050		900		
118	1	Wrestling Room			1,680		
119	1	Gymnastics/Dance			1,050		

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
112	1	Gymnasium Floor			6,500	1	160
113	1	Gymnasium Seating			8,000		
120	1	Gymnasium Storage			375		
114	1	Laundry/Towel			250		
370	1	Gymnasium Lobby			1,250		
371	1	Concessions			200		
372	1	Ticket Booth			30		
822/823		Restrooms, public (from allotment)					
121	1	Stadium Press Box (from kitchen)			600		
098	1	Outdoor Storage Building (from custodial)			250		
		TOTAL			30,624		160
RESOURCE ROOMS							
040	2	Resource Room with storage folded into room (3 to technical workshop, 2 to Drivers Ed, 2 Music)		599	1,198		
		TOTAL			1,198		
RESTROOMS (adjust square footage for FACBC and parity requirements)							
822/823		Public Restrooms			500		
815/816		Student Restrooms			3,750		
819/820		Staff Restrooms			1,000		
		TOTAL			5,250		
SCIENCE							
023	12	Science Demonstration/Classroom		1,300	15,600	25	300
808	12	Material Storage		150	1,800		
		Subtotal			17,400		
012	1	Computer Laboratory & Storage			900	25	25
808	1	Material Storage		45	45		
		Subtotal			945		
810	2	Chemical Storage		400	800		
		TOTAL			19,145		325
SOCIAL STUDIES							
003	8	Classroom		810	6,480	25	200
808	8	Material Storage		45	360		
		TOTAL			6,840		200
STUDENT STORAGE (Lockers)							
		Student Personal Storage			1,250		
		TOTAL			1,250		
TEACHER PLANNING							
315	4	Teacher Planning		1,068	4,272		
		TOTAL			4,272		

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
CAREER EDUCATION							
Approximately 19 Labs (432 student stations & 72,000 NSF) from Career Education can be included in a 2,500 student school							
Agriscience							
203	1	Laboratory			1,600	20	20
806	1	Reference			100		
810	1	Material Storage			395		
818	2	Locker Room		225	450		
840	1	Related Classroom			680		
841	1	Greenhouse			800		
847	1	Flammable Storage			125		
848	1	Machinery Storage			1,100		
851	1	Tool Storage			310		
		TOTAL			5,560		20
Automotive							
246	1	Auto Tech Laboratory			4,000	20	20
808	1	Material Storage			100		
850	1	Tool Storage			195		
840	1	Related Classroom			680		
849	1	Project Storage			310		
		Subtotal			5,285		
246	1	Auto Body Laboratory			4,000	20	20
808	1	Material Storage			100		
850	1	Tool Storage			195		
840	1	Related Classroom			680		
849	1	Project Storage			310		
272	1	Paint Booth			500		
		Subtotal			5,785		
246	1	Auto Tech/Diesel Laboratory			4,000	20	20
808	1	Material Storage			100		
850	1	Tool Storage			195		
840	1	Related Classroom			680		
849	1	Project Storage			310		
272	1	Clean Room			310		
		Subtotal			5,595		
		Shared Areas					
818	2	Locker Room		225	450		
847	1	Flammable Storage			300		
		Subtotal			750		
		Total			17,415		60

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
Bio-Technology							
243	1	Laboratory #1			3,240		25
852	1	Technology Resource Center			1,200		
854	1	Darkroom			200		
810	1	Chemical Storage			<u>310</u>		
		Subtotal			4,950		
243	1	Laboratory #2			2,280		25
810	1	Material Storage			<u>260</u>		
		Subtotal			2,540		
243	1	Laboratory #3			2,280		25
810	1	Material Storage			<u>260</u>		
		Subtotal			2,540		
		Other Spaces					
841		Outside Greenhouse			800		
		TOTAL			10,830		
Construction (Electrical/Construction/Masonry/Plumbing/HVAC)							
243	3	Laboratory		3,375	10,125	25	75
849	3	Project Storage		310	930		
851	3	Tool Storage		310	930		
852	3	Technology Resource		800	2,400		
		Subtotal			14,385		
		Shared Spaces					
847	1	Flammable Storage			375		
818	2	Locker Room		225	450		
272	1	Fenced area for a slab with roof to hold masonry walls			300		
272	1	Fenced area for a slab with roof to hold construction projects and supplies			300		
		Subtotal			1,425		
		TOTAL			15,810		75
Cosmetology							
245	1	Laboratory (combine 2 into 1)		1,800	3,600	20	40
846	1	Reception Area			200		
245	1	Facial Laboratory			1,000	10	10
245	1	Nail Laboratory			800	10	10
840	2	Related Classroom		680	1,360		
840	1	Related Classroom/Computer Room			680		
849	4	Product Storage		310	1,240		
272	1	Washer/Dryer & Linen Storage			450		
804	1	Dispensary			405		
810	1	Kit Storage			585		
822/823		Restrooms, public (from allotment)					
		Total			10,320		60

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Sta. Total.
<u>Criminal Justice</u>							
263	1	Laboratory			1,300	20	20
810	1	Material Storage			395		
840	1	Related Classroom			680		
		Total			2,375		20
<u>Distributive Education</u>							
222	1	Laboratory			900		20
808	1	Material Storage			100		
812	1	Project Storage			150		
840	1	Related Classroom			680		
		Total			1,830		20
<u>Equine/Pre-Veterinary</u>							
023	12	Science Demonstration/Classroom		1,300	15,600	25	300
808	12	Material Storage		150	1,800		
		Subtotal			17,400		
012	1	Computer Laboratory (Distance Learning)			1,200	25	25
808	1	Material Storage		45	45		
		Subtotal			1,245		
810	2	Chemical Storage		400	800		
		TOTAL			19,445		325
<u>Family & Consumer Science</u>							
234	1	Teacher Education (FKA Early Childhood)			1,700	20	20
812	1	Project Storage			150		
808	1	Material Storage			100		
852	1	Technology Resource Center			800		
842	1	Kitchen			125		
843	1	Laundry			50		
807	1	Outside Storage			100		
		Subtotal			3,025		
234	2	Culinary Operations to include the following:				20	40
807	1	Warewashing					
807	1	Mop Room		1,700	3,400		
807	1	Equipment Storage					
807	1	Dry Storage					
812	2	Project Storage		150	300		
852	2	Technology Resource Center		800	1,600		
842	2	Kitchen		125	250		
843	2	Laundry		50	100		
818	2	Locker Room		225	450		
		Subtotal			6,100		

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Sta. Total.
234	1	Fashion Design/Interior Design			1,700	20	20
808	1	Material Storage			100		
812	1	Project Storage			150		
852	1	Technology Resource Center			800		
843	1	Laundry			50		
		Subtotal			2,800		
		Total			11,925		80
<u>Finance/Business Education</u>							
212	4	Laboratory		1460	5,840	20	80
808	4	Material Storage		100	400		
812	4	Project Storage		150	600		
		TOTAL			6,840		80
<u>Health Occupations</u>							
252	2	Health Occupations Laboratory		1,200	2,400	20	40
804	1	Dispensary		135	135		
272	1	Laundry area		135	135		
808	2	Material Storage		100	200		
812	2	Project Storage		150	300		
840	2	Related Classroom/Computer Laboratory		680	1,360		
		Subtotal			4,530		
254	1	Practical Nursing Laboratory (with nursing stations)			3,300	20	20
804	1	Dispensary/Reference			235		
810	1	Material Storage			395		
818	1	Restroom with shower			150		
272	1	Laundry area			135		
840	1	Related Classroom/Computer Laboratory			680		
849	1	Project Storage			310		
		Subtotal			5,205		
		Total			9,735		60
<u>Information Technology</u>							
212	3	Computer Labs		1,460	4,380	20	60
808	3	Material Storage		100	300		
812	3	Project Storage		150	450		
		Total			5,130		60
<u>Marine Academy</u>							
246	1	Yacht Building Laboratory			4,000	20	20
840	1	Related Classroom			680		
808	1	Material Storage			100		
850	1	Tool Storage			195		
272	1	Paint Booth			500		
		Subtotal			5,475		
		-					

DRAFT SEPTEMBER 2006 Exhibit A

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
246	1	Marine Engines Laboratory			4,000	20	20
840	1	Related Classroom			680		
272	1	Test Room			310		
808	1	Material Storage			100		
850	1	Tool Storage			195		
		Subtotal			5,285		
		Shared Areas					
818	2	Locker Room		225	450		
847	1	Flammable Storage			350		
		Subtotal			800		
		Total			11,560		40
<u>Marketing</u>							
222	1	Marketing Laboratory			1,100	20	20
808	1	Material Storage			100		
812	1	Project Storage			150		
840	1	Related Classroom			680		
310	1	School Store			250		
		Total			2,280		20
<u>Media/Film/TV Production Academy</u>							
243	2	Studio		1,620	3,240	12	24
852	1	Technology Resource Center			800		
867	1	Audio & Control Booth (NSF from storage)			600		
807	1	Equipment Storage			410		
272	6	Small editing booths (NSF from studio & storage)		40	240		
		Total			5,290		24
<u>J.R.O.T.C.</u>							
708	1	JROTC Classroom/Laboratory			1,050	25	25
800	1	Arms Room			150		
801	2	Classrooms (from indoor firing range)		1,020	2,040		
802	2	Conference/office		110	220		
808	1	Material/Uniform Storage			470		
		TOTAL			3,930		25
<u>Radio Production</u>							
241	1	Studio			900	25	25
852	1	Technology Resource			800		
867	1	Radio Control Room			200		
807	1	Equipment Storage			205		
272	6	Small editing booths		70	420		
		TOTAL			2,525		25

DRAFT SEPTEMBER 2006 Exhibit A

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
<u>Technology</u>							
242	1	Drafting & Design			2,375	25	25
810	1	Material Storage			395		
		Subtotal			2,770		
243	1	Communication			3,375	25	25
852	1	Technology Resource			800		
808	1	Material Storage			100		
810	1	Material Storage			395		
849	1	Project Storage			310		
		Subtotal			4,980		
243	1	Engineering			3,375	25	25
852	1	Technology Resource			800		
808	1	Material Storage			100		
810	1	Material Storage			395		
849	1	Project Storage			310		
		Subtotal			4,980		
243	1	Production/Construction			3,375	25	25
852	1	Technology Resource			800		
808	1	Material Storage			100		
810	1	Material Storage			395		
849	1	Project Storage			310		
851	1	Tool Storage			310		
		Subtotal			5,290		
		TOTAL			18,020		100
<u>Tourism</u>							
222	1	Tourism Laboratory			900	20	20
812	1	Project Storage/Material Storage			250		
840	1	Related Classroom			680		
		TOTAL			1,830		20

For modernization of existing schools and other schools with a high concentration of special program needs additional teaching spaces may be provided through the use of Resource Rooms and ESE Rooms to meet program capacity per the approval on January 21, 2003 of the Charter District Waiver.

GENERAL CONSIDERATIONS

Use the following documents, as a minimum, in facility design, the latest edition of the Florida Building Code (FBC) with latest revisions, the Florida Fire Prevention Code (FFPC), the SDPBC Education Specification, District Master Specification (DMS), District Design Criteria (DDC) and State Requirements for Educational Facilities (SREF)

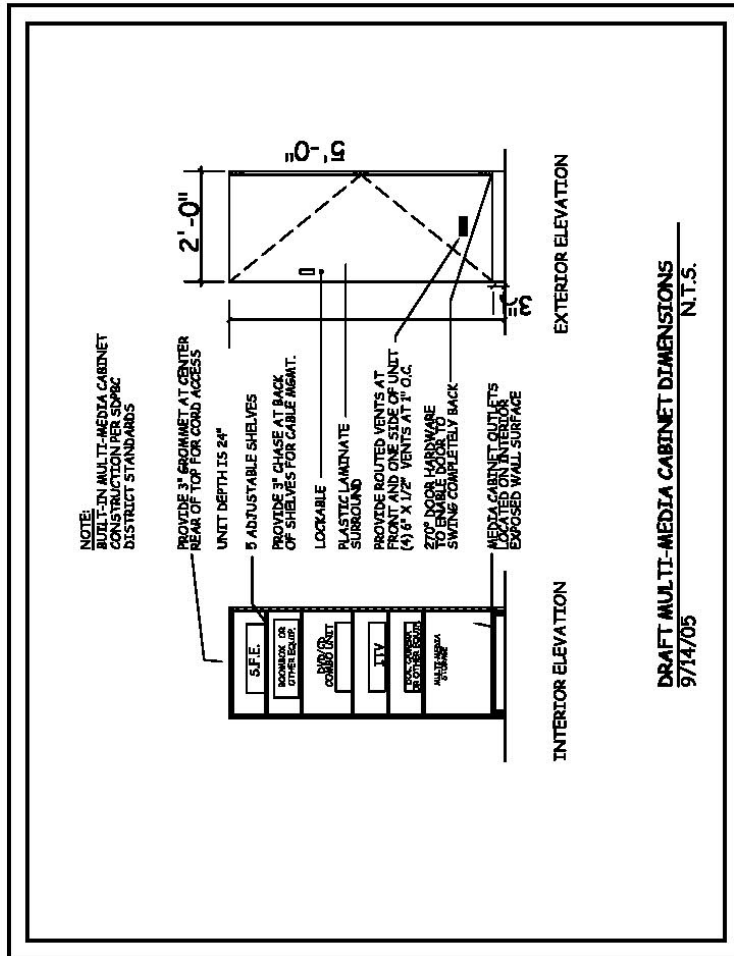
- A. **Security** - The design shall comply with the DDC – Architectural and Civil.
- B. **Flexibility** - Consider flexibility to allow for future program changes and expansions of the school plant.
- C. **Construction Techniques** - Consider fast and economical construction methods consistent with long-range maintenance and flexibility requirements of a permanent school plant. Refer to the DDC - Architectural.
- D. **Heating, Ventilating and Air-Conditioning (HVAC)** – Design the system(s) in accordance with the DDC – Mechanical and the related DMS sections in Division 15.
- E. **Plumbing** - Design the system(s) in accordance with the DDC – Plumbing and the related DMS sections in Division 15.
- F. **Building Fire Protection** - Design the system(s) in accordance with the DDC – Plumbing and the related DMS sections in Division 15.
- G. **Windows** – Provide windows and window treatment in accordance with the DDC - Architectural.
- H. **Floors** - Provide floors in accordance with the DDC - Architectural.
- I. **Walls** - Provide walls in accordance with the DDC - Architectural.
- J. **Roof** - Provide roofs in accordance with the DDC - Architectural
- K. **Corridors and Student Commons** - Corridor shall comply with the Florida Building Code, DDC and DMS.
- L. **Sound Treatment** - Acoustically-treated walls and ceilings shall be provided as necessary for the intended use of the space. Refer to the DDC – Architectural.
- M. **Hot Water** - Hot water shall be provided as indicated and per code. Refer to the DDC - Mechanical and Plumbing and DMS.
- N. **Lighting** - Classroom lighting shall be controlled with alternate switching of light fixtures. Provide lighting in accordance with the DDC – Electrical and DMS.
- O. **Electrical** - Provide Electrical System in accordance with the DDC – Electrical and DMS.

- P. Student Toilets** - Follow the DDC – Architectural and Plumbing for locating, designing and equipping student toilet facilities.
- Q. Entrances** – Entrance shall comply with the requirements of the DDC – Architectural.
- R. Lockers** - Lockers shall be located in air-conditioned corridors. Refer to DMS.
- S. Clock and Bell System** - Clock system shall be utilized throughout the facility and provided and installed by the contractor. Bell system shall have automatic and manual operation.
- T. Intercommunications System** - Provide two-way intercom system in accordance with the DDC - Electrical.
- U. Instructional Television System** – Provide ITV system in accordance with the DDC – Electrical and DMS sections in Division 16.
- V. Color/Finishes** - The exterior of the buildings shall use a maximum of three (3) different colors and the interior of the buildings shall use a maximum of four (4) different colors with one of the four interior colors serving as the accent color for the instructional space. Location of accent paint colors shall be in reception areas and spaces of student use. Accent color in a principal’s office is optional. Floor Patterns shall be applied in multi-use (cafeteria, media, corridors) and student occupied areas. Exterior materials and coatings shall be graffiti resistant and easily cleaned to the maximum extent practical. The architect shall submit finishing schedules and mill work for review and approval by the SDPBC’s Interior Design Coordinator.
- W. Display Case** - A built-in recessed display case with tackable backboard and controlled light shall be located in the entrance foyer, music area, art area and media center. A built-in trophy case with tackable backboard shall be located in gymnasium and auditorium. Provide safety glass. The recessed display case shall be 6’W x 4’H and 36” aff for a total of height of 7’.
- X. Communications (Voice and Data)**- Provide Communication systems in accordance with the DDC - Electrical.
- Y. Safety** - Provide safety devices in accordance with the DDC, DMS and FBC.
- Z. Site Fire Protection** - Refer to the DDC, DMS, FBC and FFPC.
- AA. Automobile Parking** - Provide parking in accordance with traffic control section, DDC – Architectural and Civil. Visitor parking shall be provided near the entrance to the administrative suite.
- AB. Water Outlets** - Provide hose bibs in accordance with the DDC - Plumbing.
- AC. Potable Water** - Systems shall be designed in accordance with the DDC – Civil and Plumbing.

- AD. Pavement, Site Improvements** - Provide all pavement, markings, signage and other site improvements in accordance with the DDC - Civil.
- AE. Sanitary Sewer** - Systems shall be designed in accordance with the DDC – Civil.
- AF. Storm Water Drainage** - Systems shall be designed in accordance with the DDC - Civil.
- AG. Irrigation Water** – System shall be designed in accordance with the DDC – Civil and SFWMD.
- AH. Structural** - Systems shall be designed in accordance with the DDC - Structural.
- AI. Bulletin Boards** - In addition to any bulletin boards specified in departmental specifications, the contractor shall provide eight lineal feet of tackboard in the corridor outside each classroom, resource room, music room, art room, career education classrooms, media center and administration. Bulletin (tack) boards shall not be less than 36" vertical measurement.
- AJ. Ceiling Heights** - Ceiling height shall be in accordance with the DDC - Architectural.
- AK. Crowd Control** - The design shall reflect good crowd control. Consideration shall be given to large groups that enter and leave the site at times of public and school events.
- AL. Energy Conservation** - The building and its systems shall be designed in accordance with the DDC – Mechanical.
- AM. Community School** - The general plan and campus design shall be arranged to permit and facilitate use of all appropriate school facilities by community agencies when these spaces are not in use for the regular school program. Community school considerations include ready access from parking lots to all athletic and recreational facilities, meeting rooms, music facilities, media center, cafeteria, auditorium and community school coordinator's office. Offices(s) shall be located near the parking lot with adequate lighting and natural surveillance.
- AN. Exterior Building Materials** - Major exterior building materials shall be fully documented in the design phase of project development for review and approval by the SDPBC Superintendent or his/her designee. Exterior materials and coatings shall be graffiti resistant and easily cleaned to the maximum extent practical. Refer to the DDC – Architectural.
- AO. Instructional Technology** - Provide conduits, wiring, data outlets and receptacles for computer network requirements. Provide spaces and special air-conditioning for computer- related electronics. Refer to the DDC.
- AP. School Site and Play Fields** - The school site and play fields shall be designed in accordance with the DDC – Architectural and Civil.

- AQ. Working Heights** - Provide built-in equipment and furnishings in accordance with the DDC - Architectural.
- AR. Ventilation** - Ventilation shall be designed in accordance with the DDC - Mechanical.
- AS. Program Furniture and Equipment** - Program furniture and equipment list, in this document, is a design guide for determining space requirements and it is not intended as an ordering guide. Use existing furniture and equipment where possible.
- AT. Natural Gas** - Refer to the DDC - Plumbing.
- AU. Design Notebooks** - Refer to the DDC - Mechanical.
- AV. Communications Room** - Every facility shall have one Communication Equipment Room (CER) and several Communication Closet Rooms (CCR) as necessary to comply with the DDC – Electrical and Mechanical.
- AW.** The Architect/Engineer shall request a clarification from the Senior Project Administrator (SPA) of any conflicts between the Educational Specification, DDC or DMS.
- AX.** For high schools, contractor to provide a lighted double sided marquee/school sign, 9’x12’ in size, with adequate electrical service stubbed out for future wireless LED message area upgrades.
- AY.** Those high schools designed by the Emergency Operation Center will be Hurricane Shelters and the principal’s restroom may be equipped with a shower.
- AZ.** Contractor to provide and install flag pole holders with proper backing in all necessary areas. Contractor to provide and installed AV screens and brackets with proper backing in all necessary areas. Provide proper backing for all mounted equipment where necessary.
- BA.** Each school center shall a lightning detection device system.
- BB.** All built-in counters shall be wire management holes (grommets) to service telephones and computer hook-ups.
- BC.** When possible, the “head-in” equipment shall be located in the production room in the Library Media Center. The equipment should not be located in the control room of the CCTV studio.
- BD.** Schools under modernization and/or comprehensive addition shall have the interior signage comply with the building and room numbering of the School District’s guidelines. Room names and numbers on signage shall be coordinated with SDPBC Interior Design Coordinators.
- BE.** Contractor to provide a 30’ high flagpole with two complete rope systems. The flagpole shall be located near the main office/administration.

- BF.** Refer to the DDC – electrical and DMS with regards to ceiling projectors raceway system. Contractor to provide ceiling projectors raceway system with all necessary wiring and properly supported projector mounting brackets in all instructional spaces and other designated areas. Obtain the latest detail of installation and specifications from the District’s Network Services Department.
- BG.** For the latest requirements and locations of the Multimedia Cabinet, Teacher Station connectivity, Sound Field Enhancement and LCD Projector contact Department of Educational Technology and refer to DDC and DMS.
- BG.** Refer to the DDC – electrical and DMS with regards to conduit and junction box for sound field enhancement system and LCD projector.
- BH.** Classrooms, instructional areas and other designated areas shall be equipped with built-in Multimedia Cabinets, provided by the contractor, to house ITV equipment, DVD/VCR, Sound Field Enhancement, Document Camera and other multimedia equipment. The Multimedia Cabinet shall be 24”w x 24”d x 60”h with a 270° hinged lockable door; open back for access to outlets located on the wall; five (5) adjustable shelves with 3” chase for wire/cord wire management; routed vents at front and one side of unit 4 – 6”x1/2” vents at 1” O.C. and 3” grommet on top of unit in center of cabinet. (Refer to prototype classroom and prototype Multimedia Cabinet drawings)
- BI.** Classrooms, instructional areas and other designated areas shall be equipped with built-in workstation, provided by the contractor. The workstation shall include a U shape work area with three (3) grommets and two (2) lockable pedestals (box/box/file and file/file). (Refer to prototype classroom drawing)
- BJ.** Each school shall have an Automated External Defibrillator which will be provided by the owner. The location and signage will be determined by the SDPBC Risk Management Department.



GENERAL SECURITY CONSIDERATIONS

- A. Meet with SDPBC Department of School Police at first stage, site and building layout development, to discuss project specific security issues.
- B. The area for loading/unloading of students shall be designed for easy supervision with no mixture of pedestrian and vehicles.
- C. Open parking areas shall have good natural surveillance. Provide a fenced staff parking area that can be locked during the day where local conditions warrant.
- D. Site access shall consist of a primary road and secondary access in the event the primary road is blocked.
- E. School sites shall have perimeter security fencing preventing access to walkways and courtyards when facility is not occupied, but allow for public use of exterior athletic facilities. Design exterior doors to prevent unauthorized entry by minimizing key locks and hardware on doors which would not be used for the purpose of essential entry but are installed for emergency egress.
 - 1. Doors which are determined to be essential entry shall be provided with key access and include card access control and hardware as per current SDPBC policy, guidelines and the project specific plan review process.
 - 2. Entire perimeter of site shall be fenced or wall barriered and gated to a minimum height of six (6) feet. Provide the delivery/receiving/service entry gates(s) with electric latching/lock hardware and all associated hardware to allow the control of it from the card access system.
 - 3. Create an interior perimeter barrier so that all open area students and staff commons and their thoroughfares, i.e. courtyards, areas between buildings, portable classrooms, PE fields, etc. are blocked from entering except through an access controlled main public entry. Create a structurally mounted set of metal entry doors in the interior perimeter barrier to become the focal point of all public entry. These doors shall be located in the entry thoroughfare between the visitor parking area and the administration reception area. At the public entry, provide card access, video surveillance; remote intercom and electric controlled lock hardware as per current SDPBC policy, guidelines and the project specific plan review process. All other egress points through this open area interior perimeter barrier shall have the same type of structurally mounted metal entry doors. No fence gates allowed.
- F. Use maze-type of entry system to restrooms where appropriate, i.e., gymnasium. Do not use maze-type of entry for exterior locations.
- G. Bicycle parking compound shall be located in an area with good natural surveillance and have an 8' fence. Provide racks to which bicycles can be locked. Should be visible from office staff or classroom windows.
- H. When designing courtyards, consider physical division of space, i.e. benches, planters,

to avoid congregation of large groups of students and to allow smooth flow of traffic. Position amenities to create multiple access and passageways. Planters shall not be placed in such a way as to allow its contents to block clear vision of common areas and courtyards. Limit the heights of all trees and shrubbery that are planted between the buildings and all thoroughfares, congregate areas, bike and auto parking spaces, courtyards, portables, entry/exit points throughout the interior perimeter barrier, playfields, etc. to not exceed three feet (3'), for a distance of fifty feet (50'). Consideration should be taken when locating landscaping to assure that it will not block lighting.

- I. Locate teacher planning areas throughout the campus to provide supervision for potential problem areas. Acceptable locations are at ends of buildings and center of hallways.
- J. Provide zoned lighting to allow for security during community school activities at night. Consider use of motion detector lights in isolated areas.
- K. Design roofs without obstructions that could conceal persons from view. Roof access shall be properly secured and lockable.
- L. Provide two (2) KNOX Box for emergency key access to the site and buildings(s), one for school police and one for the fire department. Coordinate with local fire department and district personnel.

SITE DEVELOPMENT

- A. All site plans shall comply with SDPBC Technical Requirements Manual for Site Plans.
- B. Refer to the District Design Criteria (DDC).
- C. Landscaping plan shall contribute to the development of a balanced and harmonious appearance of the educational complex. Landscaping shall be based on surveys of existing plants on the site and a palette of species of plants native to the vicinity. Plantings shall be site specific with special consideration given to minimizing supplemental irrigation systems, energy efficiency and maintainability of the designed vegetation systems, from installation to maturity. Supplemental irrigation systems to be used shall provide for total coverage of landscape areas. Where practical, minimum plant sizes and maximum spacing shall be used. Landscaping shall be in compliance with State Requirements for Educational Facilities Guidelines.

TRAFFIC CONTROL

The following traffic related activities occur on the school site:

1. Approximately, 20-30 school buses will enter and exit the site at the beginning and end of each school day.
2. Approximately, 270 staff will enter and exit the site daily.
3. Service and visitor vehicles will enter and exit the site daily.
4. Private vehicles of spectators attending extra curricular activities will enter and exit the site periodically.

Proper signage should be included to delineate each area. Signage and bumpers for parking spaces shall be provided by the contractor.

Specific consideration shall be given to the following:

1. Parking spaces shall be conveniently located for approximately (235) staff, (565) students, (25) visitors and (40) service personnel. Ten of these to be convenient to kitchen. Parking locations shall be located on-site and/or off-site.
2. Visitor parking shall be provided near the administrative suite and will naturally lead to the administrative suite reception entry.
3. A fenced parking area with lockable gates for bicycles shall be provided.
4. Student pedestrian traffic to play fields shall not cross any vehicular traffic area.
5. Refer to **District Design Criteria (DDC)**.

ADMINISTRATIVE/STUDENT SERVICES/GUIDANCE**I. PROGRAM PHILOSOPHY**

Refer to overall.

II. PROGRAM GOALS

Refer to overall.

III. PROGRAM ACTIVITIES**A. Administration**

1. Reception of public
2. Reception of students
3. Secretarial and clerical duties
4. Accounting duties
5. Filing and office storage
6. Office activities for:
 - a. Principal
 - b. Curriculum Coordinator
 - c. Assistant Principals
 - d. Community School Director/Assistant Principal
 - e. Deans
7. Data processing/computer area
8. Record keeping and storage
9. Mail distribution
10. Duplicating production
11. Textbook processing and storage
12. Conference (individual and small group)
13. Key and security control
14. Verbal communication, school wide
15. Telephone control, school wide
16. Clock and bell control
17. Curriculum development
18. Student scheduling
19. Attendance and discipline
20. Health clinic

B. Student Services/Guidance

1. Reception of students
2. Reception of parents
3. Secretarial and clerical duties
4. Filing and office storage
5. Office activities for guidance counselor
6. Student record keeping and storage
7. Conferences (individual and small group)

C. Individual testing

1. Registration and orientation of new students
2. Job placement follow-up
3. Dissemination of educational, career and personal/social information
4. Liaison activities between school and community agencies

IV. ORGANIZATIONAL NOMENCLATURE

Number of Students Served Per Day Total Varies

Number of Persons Served at one time Varies

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

Community school concept. School facilities are made available for a wide variety of activities and classes after and during regular school hours.

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.)

- A. The career room serves the needs for the program and will replace student activities.
- B. Records/vault of 750 NSF has been separated into two spaces located in Administrative and Student Services. Each space will be 375 NSF.
- C. General Reception/Secretary shall be divided into 1,000 NSF for Administrative Reception/Secretary; 500 NSF for Dean's Reception; 600 NSF to Student Service Reception/Secretary and 300 NSF to Administrative Suites Reception/Secretary.
- D. Conference area shall be divided into 50 NSF to Principal; 680 NSF for Media Conference Room; 300 NSF to Student Service Conference Room and the remaining 720 NSF shall be split into two conference rooms in Administrative area and Dean's area.
- E. The clinic shall be located in Student Service.
- F. Textbook storage shall be divided into 300 NSF for Administrative Suites and 575 NSF in Student Services.
- G. Administrative Storage shall be divided into 450 NSF for Administrative Suites, 200 NSF for Student Services and remaining NSF for Administrative Storage
- H. Satellite Administrative Suites shall include Reception/Secretary; Administrative Office; Itinerant; Storage/Vault; Textbook Storage; Teacher Planning and Staff Restrooms.

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
ADMINISTRATIVE							
300	1	Principal (50 NSF from conference room)	250		300		
301	4	Administrative Office		175	700		
302	1	Bookkeeper			175		
303	1	Principal's Secretary			175		
304	1	General Reception/Secretary (500 NSF to Dean's Recept; 450 NSF to Student Services Recept & 300 NSF to Admin Suites)			1,000		
305	1	Production/Workroom			900		
306	2	Conference (50 NSF to principal, 680 NSF to Media & 300 NSF to Student Services Conference and remaining NSF to be split into 2 conference rooms)	1,750		720		
308	1	Administrative Storage (450 NSF to Academic House Storage/Vault & 200 to Student Service Storage)	1,250		600		
309	1	Records/Vault (375 to Student Records)	750		375		
301	5	Dean's Office		175	875		
304	1	Dean's Reception (from general reception)			500		
312	1	Computer Area/Data Processor			375		
301	2	Office for School Police		150	300		
301	1	Video Surveillance			150		
314	1	Itinerant			125		
314	1	Attendance/Itinerant			125		
819/820		Restrooms, staff (out of allotment)					
822/823		Restrooms, public (out of allotment)					
		Subtotal			7,395		
STUDENT SERVICES/GUIDANCE							
301	2	Administrative Office		175	350		
307	1	Clinic (Board approved prototype)			725		
368	1	Textbook Storage (300 NSF to Admin Suites)	875		575		
314	2	Itinerant		125	250		
309	1	Student Records (from Records/Vault in Admin)			375		
308	1	Student Service Storage (from Administrative Storage)			200		
306	1	Conference (from administrative conference)			300		
304	1	Reception/Secretary (450 NSF from General Reception & 150 NSF for secretary)			600		
313	1	Careers Room			750		
		Subtotal			4,125		
SATELLITE ADMINISTRATIVE SUITES							
304	3	Reception/Secretary (300 NSF from General Reception/Secretary & 450 NSF for Secretary)		250	750		
301	3	Administrative Office		175	525		
314	3	Itinerant		125	375		

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
				308	3	Storage/Vault (from Administrative Storage)	
368	3	Textbook Storage (from Administrative Textbook Storage)		100	300		
315	3	Teacher Planning (from allotment)					
819/820		Restrooms, staff (from allotment)					
		Subtotal			2,400		
		TOTAL			13,920		

VIII. PROGRAM FURNITURE AND EQUIPMENT

A. Principal

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Desk/workstation with chair
4-6		X	Side arm chair
1		X	File Cabinet, four drawer, legal, lateral & lockable
1		X	Computer & Printer
1		X	Bookcase
1		X	Table, round, 42"-48"
1	X		Tack board, 3' x 4'
1	X		Clock

B. Administrative Offices; Dean; School Police, Principal's Secretary, Itinerant; Bookkeeper; Attendance Clerk & Data Processor

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Desk/workstation with chair
2		X	Side arm chair
1		X	File Cabinet, four drawer, legal, lateral & lockable
1		X	Computer & Printer
1		X	Bookcase
1	X		Tack board, 3' x 4'
1	X		Clock
	X		Built-ins (refer to special considerations)

C. Administrative Office in Student Services

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Desk/workstation with chair
2-4		X	Side arm chair
1		X	File Cabinet, four drawer, legal, lateral & lockable
1		X	Computer & Printer
1		X	Bookcase
1		X	Small table for group activities

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X		Tack board, 3' x 4'
1	X		Clock

D. Reception/Secretary Area (per)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
5		X	Chairs for visitors
1		X	End table
1		X	Computer & Printer
1		X	Bookcase
1	X		Tack Board, 3' x 4'
1	X		Recessed glass enclosed trophy case, approximately, 4' x 8', shatterproof glass (administrative only)
1	X		Recessed Display Case, 6' w x 4' h (located in main and student service reception area)
1	X		Clock
2		X	Brochure/Magazine Rack, wall mounted
	X		Built-ins (refer to special considerations)

E. Production Workroom

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Collator
2		X	Copier
1		X	Paper cutter
4		X	Work table
6		X	Chairs
1	X		Double sink with goose neck faucet (HW/CW)
2		X	Vending machines
1	X		Refrigerator, residential, 22 cubic ft
1		X	Microwave
1		X	Computer
1		X	Printer
1	X		Tack board, 6' x 4' (located near staff mailboxes)
1	X		Staff mailboxes (250 minimum) set on a 30"H x 24"D counter with larger cubby/mailboxes underneath to receive large packages. Mailboxes shall be 4"h x 14" d x 12" w clear inside. The mailboxes structure should not exceed 6' in height.
1	X		Drop Safe (refer to built-in for details)
1	X		Clock
1		X	Time Collection Device
	X		Built-ins (refer to special considerations)

F. Conference Room (per)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
2		X	Conference table
14-16		X	Conference chairs
1	X		Under counter refrigerator
1	X		Marker Board, 4' x 8' with tack strip
1	X		80" w x 60" h video format screen with black masking borders
1	X		Clock
1	X	X	LCD Projector (Principal's conference room)
1	X		Small version of Multimedia Cabinet with teacher station connectivity (Principal's conference room)
1	X	X	Sound Field Enhancement (Principal's conference room)
	X		Built-ins (refer to special considerations)

G. Clinic

No. of Items	Contractor Provided	District Provided (FF&E)	Description
6		X	Cots
5	X		Cubicle curtains on track for cots
5-7		X	Straight chairs
1		X	Desk/workstation
3		X	Desk chairs
1		X	Medical Scale
2		X	File cabinet, four-drawer, legal, lateral, lockable
1		X	Rolling supply cart/ Table Cart
1	X		Refrigerator with icemaker, residential, lockable, 21 cu. ft.
1		X	Hazardous Waste Disposal & Trash Receptacles
1		X	Sharp's container
1		X	Utility Table
1	X		Double Lockable Metal Narcotics cabinet
1	X		Supervision Mirror
1	X		Sink with eye wash at nurse station (HW/CW)
2	X		F.A.C.B.C. Shower with no curb and with fold down seat in shower
2		X	Computer
2		X	Printer
1	X		Clock
1	X		Tack Board, 2'x4'
	X		Built-ins (refer to special considerations)

H. Administrative Storage

No. of Items	Contractor Provided	District Provided (FF&E)	Description
4		X	File cabinet, four-drawer, legal, lateral, lockable
1		X	Stamp machine
		X	Two-way radios

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Radio charger
2	X		Storage cabinet with shelves
	X		Built-ins (refer to special considerations)

I. Vault/Student Records

No. of Items	Contractor Provided	District Provided (FF&E)	Description
12		X	File cabinet, four-drawer, legal, lateral, lockable or moveable records filing system or high density filing system
1		X	Metal storage cabinets, with adjustable shelving
1	X		Key cabinet, lockable, mounted
1		X	Workstation with chair
1		X	Computer
1		X	Printer
1		X	Work table
1		X	Fax machine
1		X	Copier
1		X	Clock
	X		Built-ins (refer to special considerations)

J. Career Room

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Desk
1		X	Chair
1		X	Activity table
15-20		X	Chairs, stackable
1		X	File cabinet, legal, lateral, lockable
20		X	Computer
3		X	Printer
1	X		Clock
	X		Built-ins (refer to special considerations)
1	X		Marker board, 4' x 8'
1	X		Tack board, 4' x 4'
1	X		8'w x 6'h video format screen with black masking borders
1	X		Teacher storage cabinet, lockable, 36"W x 30"D x 72"H, cabinet, with adjustable shelving, lockable
1	X		Periodical storage/bookcase
2		X	Brochure/Magazine Racks, wall mounted
1	X		Built-ins (refer to special consideration)

K. Textbook/Testing Storage

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Barcode reader and scanner for textbooks
1		X	Computer & Printer
2-4		X	Activity Table
1	X		Built-ins (refer to special consideration)

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

Refer to **GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROL.**

- A. **Heating/Cooling/Ventilation** - As required to meet District Standards.
- B. **Acoustical** – As required to meet District Standards.
- C. **Floor** - As required to meet District Standards. Carpeting is limited to principal's office. Provide continuous sheet vinyl for the floor and baseboard in the clinic.
- D. **Walls** - As required to meet District Standards.
- E. **Ceiling** - As required to meet District Standards.
- F. **Lighting** - As required to meet District Standards. Provide high quality, fluorescent lighting, with capability of separate switching of rows of lights.
- G. **Windows** - As required to meet District Standards. No windows in the video surveillance room. Provide roll-up window to the outside for itinerant/attendance clerk office. Provide observation windows between the nurse's station and cot area and between the counsel room and cot area in the clinic. The nurse should be able to see through the window either sitting or standing.
- H. **Doors** - As required to meet District Standards. School Police's office shall be keyed separately. Provide larger door in administrative storage and entrance to administration building. Provide second exit from principal's office. Records room shall be fireproof.
- I. **Water/Plumbing Fixtures** - As required to meet District Standards.
- J. **Communications** - As required to meet District Standards.
- K. **Electrical** - As required to meet District Standards.
- L. **Instructional Technology** – As required to meet District Standards.
- M. **Gas and Air** - N/A
- N. **Safety** - As required to meet District Standards.

- O. **Fencing** - As required to meet District Standards.
- P. **Service Drives** - As required to meet District Standards.
- Q. **Parking** - As required to meet District Standards. Parking for administrators, secretarial staff, and visitors near administrative offices with easy access at all times.
- R. **Built-ins**
1. **Administrative Reception/Secretary & Academic House Reception/Secretary** - Provide reception counter for a minimum of two people with transaction top and a section to comply with F.A.C.B.C. standards. Provide working counter, 29"-30" h, along reception counter with a minimum of two lockable pedestals and center drawer. The space between working counter and transaction counter shall be 12" clear height to hold notebooks
 2. **Production/Workroom** - Provide counter space, with cabinets with doors, adjustable shelving and lockable above and below counter. Counter, 34"H base cabinet, 24"D; upper cabinet, 18"D, located on longest wall in workroom, F.A.C.B.C. compliant.

Provide Drop Safe - for the safety of bookkeepers and money handlers, drop safe shall be installed in non-conspicuous location (production/workroom), non-visible to the general public and students but easy access to principal and bookkeeper. Model shall be approximately 27-5/16"H x 24-7/16"W x 25-1/2"D. Safe shall be provided with a hopper to drop money pouches. Hopper shall be approximately 6-1/4"H x 7-3/4"W x 13-1/2"D. The safe shall be bolted to the floor.
 3. **Clinic** – Refer to Board Approved Prototype clinic for built-ins.
 4. **Student Service Reception/Secretary & Dean's Reception/Secretary** - Provide reception counter for a minimum of two people with transaction top and a section to comply with F.A.C.B.C. standards. Provide working counter, 29"-30" h, along reception counter with a minimum of two lockable pedestals and center drawer. The space between working counter and transaction counter shall be 12" clear height to hold notebooks. The reception counter shall have grommets for wire management.
 5. **Data Processor/Computer Area** – Provide counter workspace with cabinets, lockable doors, 30"H x 28"D, on one wall with desk in corner. Open shelving with fixed ends above counter and on opposite wall.
 6. **Careers Room** – Provide computer counter with grommets and open, adjustable shelving above counter.
 7. **Textbook Storage** – Provide maximum metal shelving on all walls. Provide free-standing shelving for center area allowing for adequate passageway.

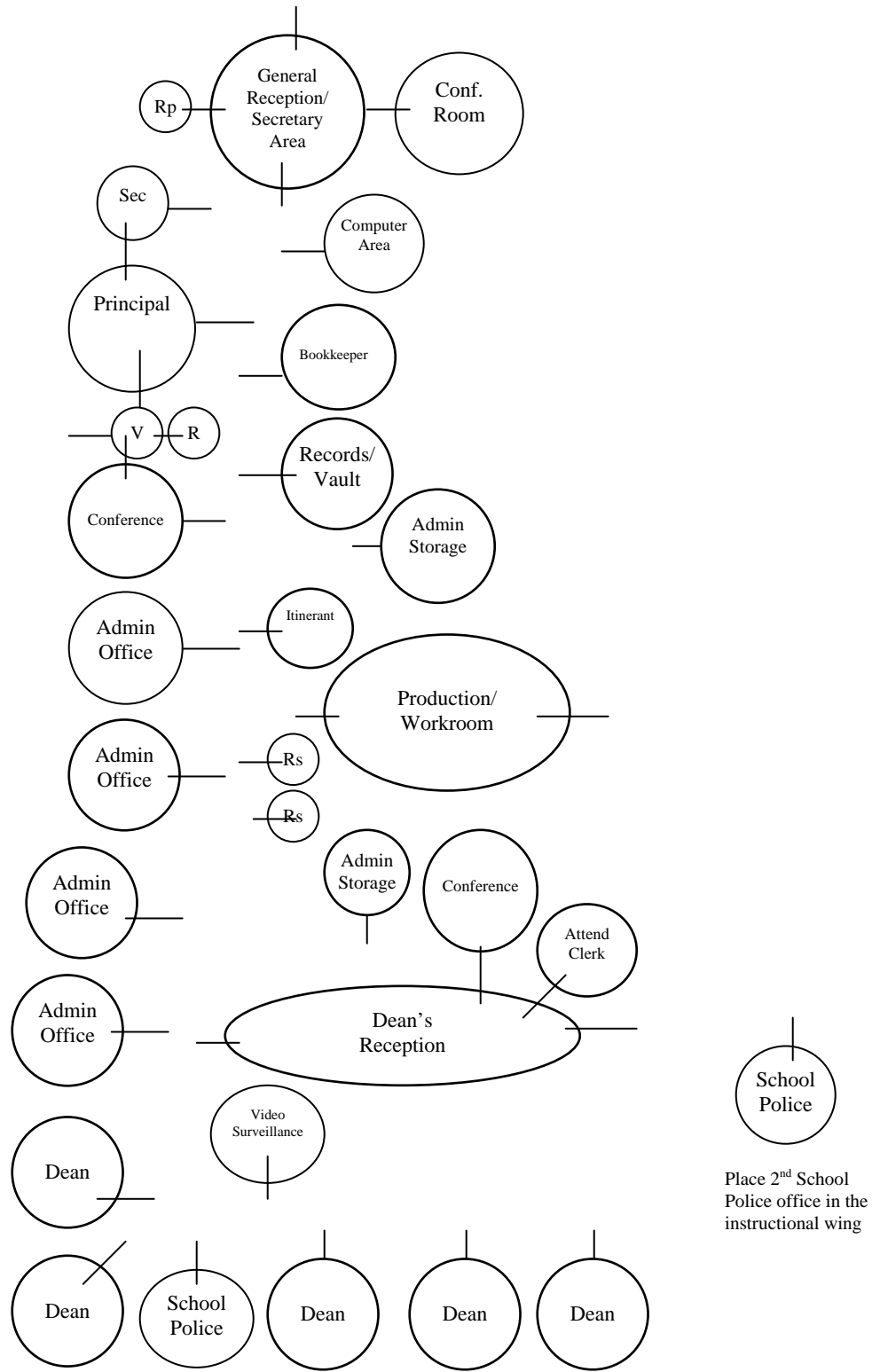
8. **Administrative Storage** – Provide adjustable shelving, continuous, 18"D on all walls, full height.
9. **Conference Room** - Provide 8' of base cabinet with sink, lockable doors and adjustable shelving, 34"H, along short wall of room, with upper cabinets with lockable doors and adjustable shelving, 12" clear inside depth.

S. Other Consideration

1. School Police Officer shall be located so that radio communications do not interfere with computer/data processing.
2. Vault/record room shall be a one-hour rated enclosure.
3. Provide electric, phone and data in the vault/records, textbook storage and administrative storage.
4. Provide electric, phone and data in all rooms (including storage) in each Satellite Administrative Suites.

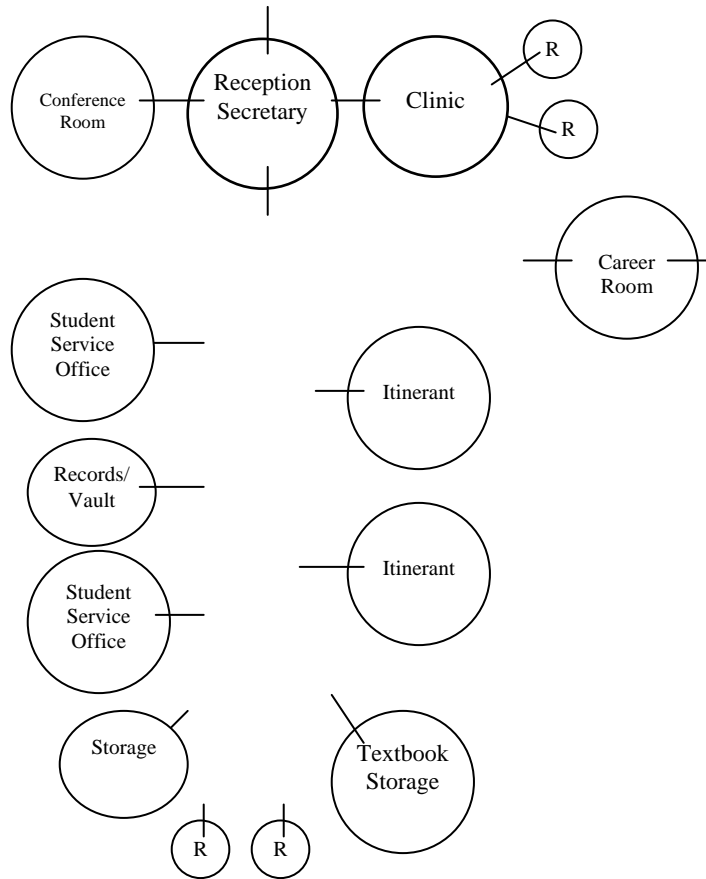
SPATIAL RELATIONSHIPS

Administrative



SPATIAL RELATIONSHIPS

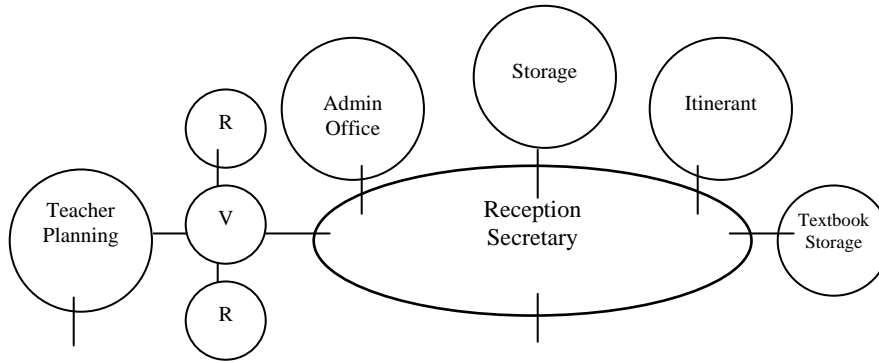
Student Services/Guidance



R = Restroom

SPATIAL RELATIONSHIPS

Satellite Administrative Suites



R = Restroom
V = Vestibule

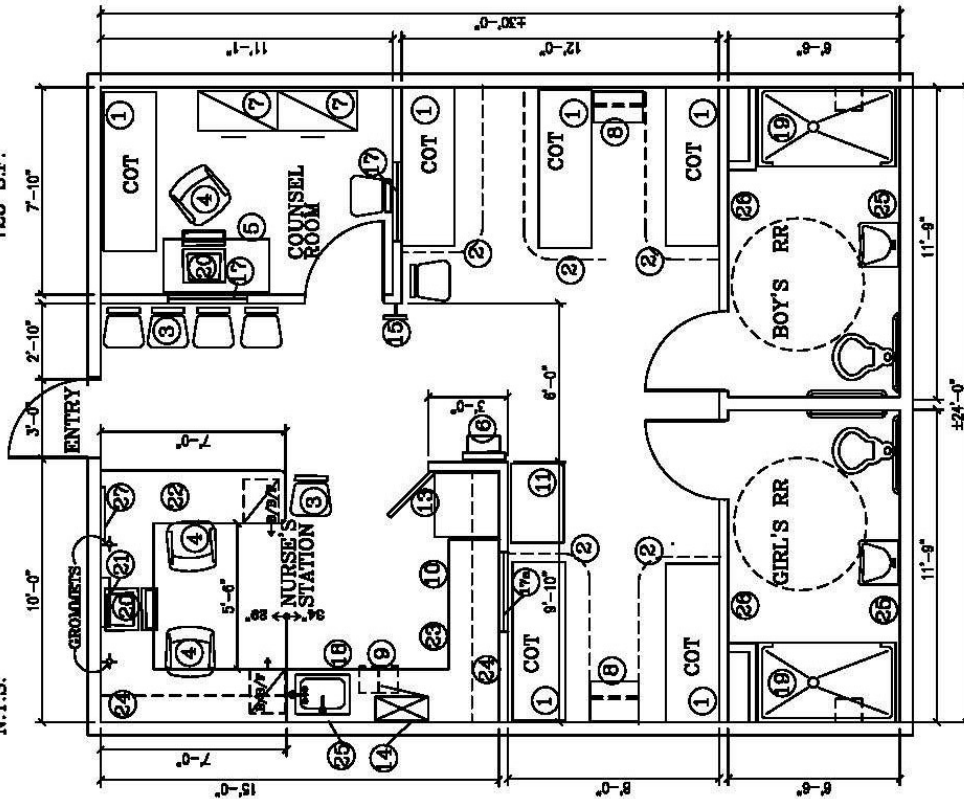
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EQUIPMENT LEGEND

- ① 6 COTS (ONE INSIDE COUNSEL AREA)
- ② CURTAIN ON TRACK FOR CURT. CURTAIN TO START @ 18" A.F.F. (EXCLUDES COUNSEL AREA)
- ③ STUDENT CHAIRS
- ④ NURSE'S TASK CHAIR
- ⑤ 30"X60" DESK (IN COUNSEL AREA)
- ⑥ BALANCE BEAM MEDICAL SCALE
- ⑦ 2-HIGH LATERAL FILE / LOCKABLE
- ⑧ ROLLING SUPPLY / TABLE CART (W/OUTLETS DIRECTLY BEHIND ON BACK WALL - MOUNTED @ 36" A.F.F.)
- ⑨ HAZARDOUS WASTE DISPOSAL & TRASH RECEPTACLES (UNDER COUNTER)
- ⑩ SHARP'S CONTAINER (INSIDE INTERIOR DOOR OF CAB)
- ⑪ 24"X 36" UTILITY TABLE (W/OUTLETS DIRECTLY BEHIND ON BACK WALL - MOUNTED @ 36" A.F.F.)
- ⑫ NOT USED
- ⑬ FULL HT. LOCKABLE REFRIG. & LOCKABLE FREEZER W/ICEMAKER 21 CU. FT. (VERIFY DIM. OF EQUIP. W/MILLWORK CONT.)
- ⑭ DEL. LOCKABLE METAL MARCOTICS CABINET DIM'S OF 24"W. X 10"D. X 30"H.
- ⑮ SUPERVISION MIRROR, MOUNTED @ 7' A.F.F.
- ⑯ NOT USED
- ⑰ FIXED OBSERVATION WINDOW ± 88"W. X 46"H. CENTERED ON WALL - W/VERT. BLINDS
- ⑱ FIXED OBSERVATION WINDOW - BETWEEN UPPER & LOWER CABINETS/RECTANGULAR ±20"X 32-38" IN LENGTH CENTERED ON WALL
- ⑲ COUNTERTOP @ 84" A.F.F. W/28"X 28" SINK (IC/HW) GOOSENECK FAUCET W/ATTACHED SIDE SWING STEWAGE SLANT PANEL BELOW COUNTER TO CORNEAL PLUMBING
- ⑳ ADA PRE-FAB SHOWER W/NO CURB - FOLD DOWN SEAT IN SHOWER
- ㉑ COMPUTERS & PHONES (OUTLETS @ 18" A.F.F.)
- ㉒ CLOCK & P.A. SYSTEM - ABOVE COMPUTER @ NURSE'S STATION
- ㉓ COUNTERTOP @ 28" A.F.F. TO INCLUDE: GROMMETS, (2) BOX/SINK/FIX PEDSTALS
- ㉔ BASE CABINET STORAGE W/DOORS - 84" A.F.F. W/ADA. SEIKAVES -
- ㉕ UPPER CABINETS W/DOORS & ADJ. RECELVES
- ㉖ LOCATION OF SOAP /PAPER TOWEL DISPENSER ADJACENT TO SINK
- ㉗ LOCATION FOR WHEELCHAIR STORAGE
- ㉘ 4' TACKBOARD @ NURSE'S STATION

HIGH SCHOOL CLINIC
N.T.S.

725 S.F.



GENERAL NOTES

- ALL CABINETS TO BE LOCKABLE
- HOMOGENOUS SEERIT VINYL FLOORING IN CLINIC/COUNSEL RM.
- CERAMIC TILE FLOORING IN RESTROOMS
- TILE TO CEILING WALL TILE IN RESTROOM
- ALL RESTROOM FURNITURE & EQUIPMENT TO MEET A.D.A. REQUIREMENTS PER FL. BLDG. CODE 2001.
- PLEASE SEE FF&E MATRIX FOR CONTRACTOR PROVIDED ITEMS

ART

I. PROGRAM PHILOSOPHY

A community high school is comprised of students with a wide range of abilities, interests and social backgrounds. A variety of course offerings provides many opportunities for students to develop their artistic talents.

The courses are designed to develop aesthetic sensitivity and to encourage the pursuit of excellence in artistic self-expression. Through the art program, students shall learn to appreciate past and present artistic expressions of others, and in so doing, expand their own horizons and develop an awareness of the role of artists in society.

II. PROGRAM GOALS

- A. To develop proficiency in the use of a variety of tools, materials and techniques.
- B. To develop understanding of the elements and principles of design.
- C. To develop students' abilities to judge art intelligently.
- D. To increase students' understanding and appreciation of the visual arts.
- E. To develop accurate visual perception.
- F. To challenge students with the responsibility of working toward excellence.
- G. To provide opportunities for recognition of outstanding student work through participation in local, state and national competitions.
- H. To help students learn to value both the artistic expressions of their peers and the work of historically significant artists.
- I. To encourage an attitude of respect for, and aesthetic appreciation of, the students' own environment.
- J. To provide direction for students who are seeking art-related careers.
- K. To inspire creativity so that students' lives may be enriched.

III. PROGRAM ACTIVITIES

- A. Photography,
- B. Computer Art
- C. Ceramics/Sculpture
- D. Fibers/fabrics
- E. Drawing
- F. Painting
- G. Crafts

- H. Printmaking
- I. Provisions to be made for the disabled.

IV. ORGANIZATIONAL NOMENCLATURE

Teacher - Student Ratio: 1:28
 Grade Levels for Which Program is Intended: 9 - 12

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

A hard-surface patio area of, approximately, 2,000 sq. ft., is being recommended. The patio shall be accessible from each laboratory and shall have planting areas for greenery and adequate drainage. A "lattice-effect" patio cover shall be provided that is stable enough to support hanging plants, sculpture (190 lbs. maximum), etc. Roof overhang shall be 12'H for ceramics laboratory and 8'H for other laboratories. Sculpture court will be used as an instructional area; square footage of sculpture court is included in the 34% circulation allotment.

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.)

- A. Two darkrooms shall be combined into one space; two kiln areas shall be combined into one space.
- B. Two art spaces are provided in the facility list and educational specification; however, three art programs are listed in the program furniture and equipment.

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
ART							
052	2	Laboratory		1,484	2,968	28	56
805	2	Kiln (combined into 1)		60	120		
808	2	Material Storage		100	200		
812	2	Project Storage		150	300		
803	2	Darkroom (combine into 1)		100	200		
TOTAL					3,788		56

VIII. PROGRAM FURNITURE AND EQUIPMENT

A. Drawing/Painting

No. of Items	In Contract	Not in Contract	Description
1		X	File cabinet, four-drawer, legal, lateral, lockable
12		X	Easels
10		X	Tables, 42" x 60"
30-40		X	Stools
<u>B. Printmaking/Photography</u>			X
1		X	Light Table, 24" x 36"
1		X	Mat cutter
2		X	Paper cutter table
1		X	Paper cutter, 36"
15		X	Art horse
2		X	Architectural horizontal storage file, five-drawer, lockable, 24" x 36"
1		X	Staging package -- model/still-life
2	X		Carrel, wet
1		X	Drying rack, on casters
5		X	Tripod lamp
1		X	Shrink wrap system
2		X	Painting racks, vertical rows
4		X	Computer with CD burner
1		X	Computer and printer for teacher
		X	Scanner
2		X	Printer
1	X		8' stainless steel sink with four individually controlled faucets and clay traps
1	X		Triple, stainless steel sink (no dividers)
1	X		Bookcase, 5'L
1	X		Marker board, 4' x 1 6' with map rail and flag holder
2	X		Tack boards, 4' x 4'
1	X		80" w x 60" h video format screen with black masking borders
<u>B. Printmaking/Photography</u>			X
1		X	Pencil sharpener, electric
1	X		Clock
1	X		Multimedia cabinet (refer to General Considerations)
1	X		Workstation (refer to General Considerations)
1		X	DVD/VCR Combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

No. of Items	In Contract	Not in Contract	Description
10		X	Tables, 42" x 60"
30-40		X	Stools
1		X	Light Table, 24" x 36"
1		X	Mat cutter
2		X	Paper cutter table
1		X	Paper cutter, 36"
2		X	Architectural horizontal storage file, five-drawer, lockable, 24" x 36"
1		X	Drying rack, on casters
1		X	Air compressor
6		X	Air brush station, spray booth, small, portable
1		X	Drymount press
1		X	Copy stand
1		X	Photo paper trimmer
2		X	Hanging safe light
30		X	Computer with CD burner
6		X	Scanner
4		X	Printer
1		X	Computer and printer for teacher
2	X		8' stainless steel sink with four individually controlled faucets and clay traps
1	X		Triple, stainless steel sink
2	X		Storage cabinets for at least 210 tote trays total, lockable doors, 4'W x 6'H x 22"D.
1	X		Bookcase
1	X		Marker board, 4' x 16' with map rail and flag holder
2	X		Tack boards, 4' x 4'
1	X		80" w x 60" h video format screen with black masking borders
1	X		Pencil sharpener with property backing
1	X		Clock
1	X		Multimedia cabinet (refer to General Considerations)
1	X		Workstation (refer to General Considerations)
1		X	DVD/VCR Combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

C. Sculpture/Ceramics

No. of Items	Contractor Provided	District Provided (FF&E)	Description
12		X	Sculpture stand
3		X	Garbage can on rollers
2		X	Wedging table
30-40		X	Stool
1		X	Spray booth
6		X	Work bench
2		X	Slab roller
1		X	Pug mill
2	X		Kiln, electric
1	X		Raku kiln, on patio
1		X	Scroll saw
		X	Paper cutters – various sizes
1		X	Glaze storage unit
1		X	Wet-dry vacuum
1		X	Hand vacuum, small
1		X	Heat-proof kiln cart
1		X	Clay extruder, with hollow disc kit
2		X	Drying cabinet
1		X	Ware cart
1		X	Dolly
2		X	Hand drill, with a paint mixer
1		X	Shelving for greenware and bisque for 5 classes, mess wire cabinets
1		X	File cabinet, four-drawer, legal, lateral, lockable
12		X	Potter's wheel, electric with one F.A.C.B.C. accessible
4		X	Computer
2		X	Printer
1		X	Computer and printer for teacher
2	X		8' stainless steel sink with four individually controlled faucets with clay traps
1	X		Triple, stainless steel sink
1	X		Double sink
1	X		Washer, heavy duty
1	X		Dryer, heavy duty
1	X		Bookcase, 5'L
1	X		Marker board, 4' x 16' with map rail and flag holder
2	X		Tack boards, 4' x 4'
1	X		80" w x 60" h video format screen with black masking borders
1		X	Pencil sharpener, electric
2	X		Storage cabinets for at least 220 tote trays total, lockable doors, 4'W x 6'H x 22"D
1	X		Clock
1	X		Multimedia cabinet (refer to General Considerations)
1	X		Workstation (refer to General Considerations)
1		X	DVD/VCR Combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

D. Darkroom

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Film development equipment
1		X	Film loading device
2		X	Enlarger plus timer, photo
1		X	Paper trimmer
2		X	Safe light
1		X	Easels, grain focusers, trays
2		X	Wall Timers
		X	Tanks, chemicals
2		X	Seating stool
1	X		Tub with goose neck faucet (HW/CW).
1	X		Sink - large, double stainless or resin located in the middle of the room (free standing with hood and vent)
	X		Built-ins (refer to special considerations)

E. Kiln Room

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Cart, two shelves
1	X		Utility tub (HW/CW) with clay trap
2	X		Kiln, electric, temperature control, three-tiered, automatic setter and necessary kiln furniture.
1	X		Damp Cabinet
	X		Built-ins (refer to special considerations)

F. Storage

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Printer & Computer for Teacher
1		X	Complete set of hand tools, e.g., saw, hammer, pliers, etc.,
2		X	Cart storage, on casters, tight-fitting top, metal-lined
1		X	Cart for storing two dimensional reproductions, minimum interior, 24" x 30"
1	X		Cabinet, double door, lockable
1	X		Divided cabinet, 84"H x 56"W x 28"D. One side to have four adjustable shelves, two shallow drawers, and one deep drawer. Other side to have three open shelves.
1	X		Flammable storage cabinet
	X		Built-ins (refer to special considerations)

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

Refer to **GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROL.**

- A. **Heating/Cooling/Ventilation** - As required to meet District Standards.
- B. **Acoustical** - As required to meet District Standards.
- C. **Floor** - As required to meet District Standards. Floor shall colored sealer on concrete in the kiln room. Floor drain in each of the laboratories and kiln room shall be equipped with lift-out sediment traps for easy cleaning. Potter's wheel area shall be concrete floor sealed with a hard resin. Provide two drains and hose connection in potter's wheel area. Threshold shall be ½" h to keep water from flowing out of room when rinsing floor. The floor covering shall be durable, smooth, resilient and easy to clean.
- D. **Wall** - As required to meet District Standards. Provide tackable vinyl covered wall panels where space allows, including cabinet fronts. Provide half wall to separate pottery area and laboratory. Half wall should be no higher than 42" above finished floor.
- E. **Ceiling** - As required to meet District Standards. Sculpture laboratory shall have a system of at least six hooks in the student work area to support, approximately, 150 lbs. each, used to hang weaving frames, drying lines, print plate lines, mobiles, etc.
- F. **Lighting** - As required to meet District Standards. In addition to regular lighting, provide track lights for display on bulletin board wall and display areas. Provide fluorescent lights in storage and kiln room. Provide ceiling attachments and outlets for portable spotlights for still-life arrangements and figure poses. Display windows (2) in hallway shall have strip lighting across top and down both corners next to glass in front inside of window. Flood lights in patio area. No plastic covers on lights in kiln room.
- G. **Windows** - As required to meet District Standards. Provide observation window between material storage and art laboratory.
- H. **Doors** - As required to meet District Standards.
- I. **Water/Plumbing Fixtures** – As required to meet District Standards. Sinks should be located in a peninsular arrangement when possible.
- J. **Communications** - As required to meet District Standards.
- K. **Electrical** - As required to meet District Standards.
- L. **Instruction Technology** – As required to meet District Standards.
- M. **Gas and Air** - As required to meet District Standards.
- N. **Safety** -
1. Kiln room precautions for excessive heat/noxious fumes.
 2. Adequate ventilation for chemicals and acids.
 3. As required to meet District Standards.

- O. Fencing** - As required to meet District Standards.
- P. Service Drives** - As required to meet District Standards. Service drive to sculpture/ceramics shall be accessible to patio area gate for delivery of heavy items and loading of art work for community display.
- Q. Parking** - As required to meet District Standards
- R. Built-ins**
- 1. Each Laboratory**
 - a. In all laboratories, each storage cabinet door and drawers shall be F.A.C.B.C. compliant, lockable, including darkroom. In ceramics laboratory, provide slate tops for counters.
 - b. Provide each laboratory with 12" x 18" x 26" shelving, lockable.
 - c. Provide Multimedia cabinet and workstation – refer to General Consideration.
 - d. Provide computer counter to accommodate four (4) computers and two (2) printers (14'W x 30"D). The counter shall have grommets for wire management. (No computer counters in Photography Lab)
 - e. Provide open shelving near classroom entrance for students personal items.
 - f. Ceramic Laboratory –
 - i. Provide storage, 7'H, adjustable, for seven classes, crafts and ceramics only; can be stationary in ceramics. Cabinets shall be double door with separate locks.
 - ii. Provide base cabinet with double sink with clay traps adjacent potter's wheel area.
 - iii. Provide shelves, large, deep, nonadjustable and damp box unit with heavy wire shelving.
 - iv. Provide open shelving, 18", in potter's wheel area on available wall; space to begin 4' from floor.
 - g. Painting Laboratory – Provide shelves, vertical, horizontal, adjustable.
 - h. Provide base cabinet with 8' stainless steel sink.
 - 2. Project Storage.**
 - a. Provide metal shelving with adjustable shelves on all walls.
 - 3. Material Storage**
 - a. Provide shelving, 12", 18", 24" and 34" full-height, adjustable, on available wall space.

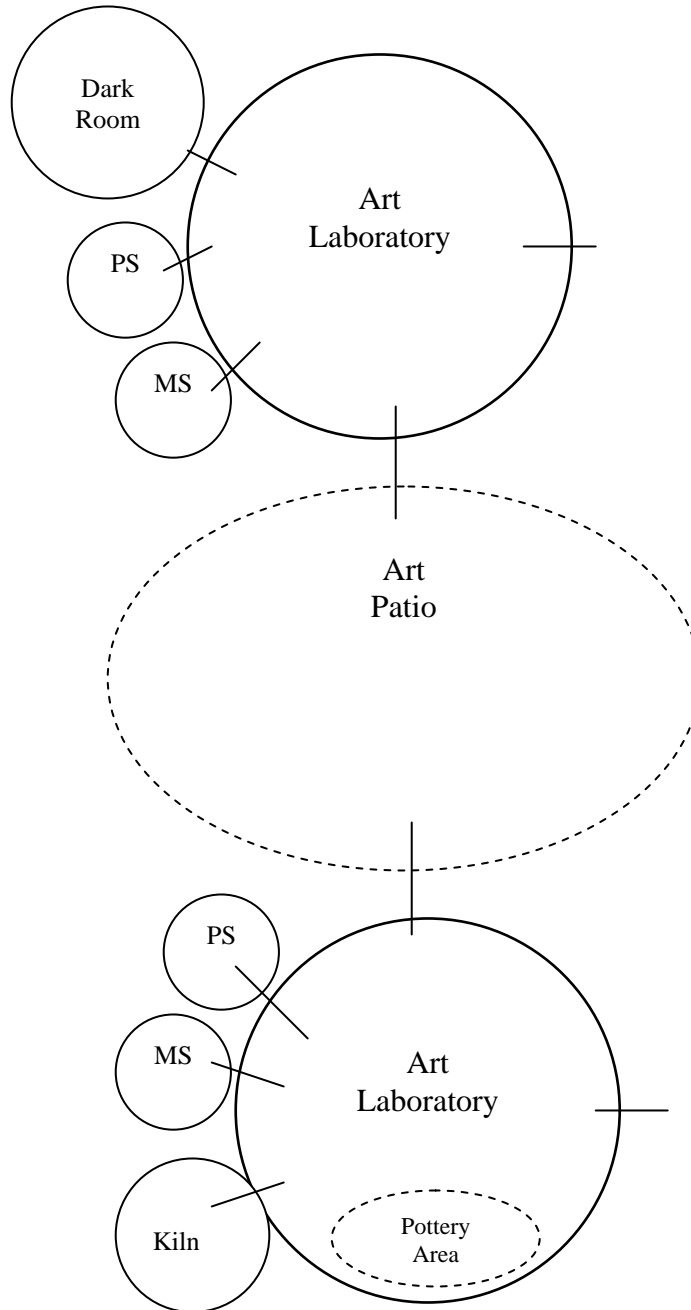
4. Kiln Room
 - a. Provide metal open shelving, floor to ceiling, in kiln room on available wall space.
 - b. Provide counter, 3'D, for enlarger & paper trimmer and upper cabinets with doors, adjustable shelves and lockable. Provide individual spaces for enlarger, 30" x 30", separated by dividers
5. Provide recessed display cabinet with tackable backboard and controlled light in hallway (2), approximately, 6'H x 3'W x 18"D.

S. Other considerations

1. Space between cabinet top, 4', and ceiling to be used for still-life objects and 1drying of large projects. A portion of 4' space shall have shelving to maximize storage.
2. The visual and performing arts shall have their facilities designed and constructed in proximity to media center and theater/auditorium.
3. Potter's wheel area separated by a half-wall from general classroom area.
4. Protection from weather shall be provided for kiln on patio.
5. Patio shall not adjoin areas where odor from raku kiln would be offensive, e.g., home economics, cafeteria.
6. Provide shrubs/or hedge in front of wall around sculpture court to prevent students from sitting on wall. Wall, to be, approximately, 36"H.
8. Provide vented storage cabinets in ceramics laboratory and solid doors with tackboard in other laboratory.
9. Add overhead cabinets above the sinks in each laboratory.
10. In the darkroom, a silver photo recovery system shall be in accordance with the current policy of the School District of Palm Beach County.
11. Darkroom shall be F.A.C.B.C. compliant.
12. The kiln room shall be a one hour rated enclosure.
13. The darkroom shall have approximately fifteen workstations along the perimeter with sink(s) in the middle.
14. The art patio with benches, provided by contractor, shall have a north or east exposure.
15. Provide electric, data and phone in Material Storage.

SPATIAL RELATIONSHIPS

ART



MS = Material Storage
PS = Project Storage

AUDITORIUM/STAGE

I. PROGRAM PHILOSOPHY

This auditorium shall provide an all-encompassing facility whereby students and community have the opportunity to participate in and experience the multi-disciplined interrelationships of visual and performing arts.

II. PROGRAM GOALS

To develop a state-of-the-art facility for student and community use that allows performance and participation in all areas of the fine arts.

III. PROGRAM ACTIVITIES

Program activities will be accessible to all age groups and all disciplines of the arts, e.g., assemblies, dramatic presentations, film and multi-media programs, visual art presentations, choral and instrumental programs, dance, staff and community development programs, etc.

IV. ORGANIZATIONAL NOMENCLATURE

Student Seating - 835

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

Facility is designed for multiple use. Innovations include the following:

- A. Technical construction workshop
- B. Art gallery
- C. Video control booth
- D. Lobby to feature large art gallery
- E. Computer capability, in house intercom, audio visual ability.

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.)

- A. Technical construction workshop included for on-site building comes from three resource rooms and material storage allotment.
- B. 830 NSF from media space is to be incorporated into stage and wings to increase the size from 990 NSF to 1,820 NSF.
- C. 225 NSF from music space to be used as green room/recording.
- D. NSF from Stage Storage shall be used to create a separate piano storage.
- E. 100 NSF from Reading/Stacks shall be used to create a 200 NSF the Video Control Room/Projection Room.

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed		
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.	
AUDITORIUM/STAGE								
360	1	Seating for 835			7,500			
363	1	Stage (990 NSF allowable plus 830 NSF from Reading Room)	990		1,820			
852	1	Technical/Construction Workshop (from (3) Resource Room)			1,170			
364	1	Storage (including piano storage)			1,250			
365/366	2	Dressing Rooms		625	1,250			
367	1	Video Control Room/Projection Room (100 NSF from Reading/Stacks)	100		200			
370	1	Lobby/Art Gallery			1,250			
371	1	Concession			200			
372	1	Ticket Booth			30			
081	1	Green Room/Recording (from Music)			225			
815/816		Restroom, student (from allotment)						
822/823		Restroom, public (from allotment)						
TOTAL						14,895		

VIII. PROGRAM FURNITURE AND EQUIPMENT

A. Seating Area

No. of Items	Contractor Provided	District Provided (FF&E)	Description
835	X		Seats, folding auditorium seats
1	X		Chair lift for disabled near stage
1		X	Lectern, port-a-sound
1		X	Lectern with microphone and input to main sound system
1		X	Marker board, portable

B. Stage Area

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Piano, upright, with cover
1		X	Portable, acoustical shell for band and choral performances
	X		Curtain (fireproof)/scrim, manual
	X		Microphone outlets throughout theater - also "fly" microphones in mid- stage
1	X		Rear projection system
1	X		14'w x 10 1/2' h, minimum, video format screen with black masking borders
	X		Built-ins (refer to special considerations)

C. Technical - Construction Workshop

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Radial arm saw
1		X	Band saw
1		X	Table saw
1		X	Drill Press
1		X	Shop work table
1	X		Tool cabinet, lockable
1	X		Flammable storage cabinet, lockable
20	X		Student lockers, lockable
1	X		First aid kit, wall mounted
1	X		Double stainless steel sink
1	X		Clock
1		X	Pencil sharpener, electric
1		X	Computer and printer for teacher
1	X		Multimedia cabinet (refer to General Considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X		Marker Board, 4' x 16', with map rails & flag holder
3	X		Tack Board, 4' x 4'
1	X		80"w x 60"h video format screen with black masking borders
	X		Built-ins (refer to special considerations)

D. Dressing Room (per)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
6		X	Chairs, stable
1	X		Single sink with (HW/CW).
1		X	Full length mirror
1	X		Tack board, 3' x 4',
1	X		Clock
1	X		TV/Multimedia cabinet (refer to General Considerations)
2	X		Wardrobe cabinet, lockable
	X		Built-ins (refer to special considerations)

E. Video Control Room

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X		Sound board for theater with wireless microphones & system
1	X		Computerized dimmer lighting board for theater
1	X		Projection areas on stage, in house, in booth
1		X	Stool
1		X	Projector with remote control for booth (that has a remote control at stage also)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	File cabinets, four-drawer
1	X		Base Ban in/on stage floor that can be used for video cameras that are being monitored by the person(s) in recording room. Need monitor capability in the control room in back area of theater
	X		Hanging microphones, on stage front plus outlets in stage area for standing microphones
1	X		Clock
	X		Built-ins (refer to special considerations)

Base Ban system from stage with additional in-house and in video control room.

F. Green Room

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Sofa, three seats
1		X	Coffee table
1		X	Lounge chairs, executive type
1	X		Mirror, full length
1		X	End table
1		X	Lamp
1	X		Clock
1	X		TV/Multimedia cabinet (refer to General Considerations)
1	X		Wardrobe Cabinet, lockable
	X		Built-ins (refer to special considerations)

G. Costume Storage

No. of Items	Contractor Provided	District Provided (FF&E)	Description
2	X		Cedar closet, 8'L x 6'H x 30"D
2	X		Wardrobe cabinet, lockable
20	X		Student lockers, lockable
	X		Built-ins (refer to special considerations)

H. Lobby/Art Gallery

No. of Items	Contractor Provided	District Provided (FF&E)	Description
		X	Portable easels
		X	Lobby furniture
	X		Benches
	X		Built-ins (refer to special considerations)

I. Ticket Booth

No. of Items	Contractor Provided	District Provided (FF&E)	Description
2		X	Stools, padded
1	X		Clock
	X		Built-ins (refer to special considerations)

J. Concession

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X		Refrigerator
1	X		Ice Maker
1		X	Microwave
1	X		Clock
	X		Built-ins (refer to special considerations)

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

Refer to **GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROL.**

For specific ventilation and fire protection requirements refer to SREF.

A. Heating/Cooling/Ventilation – As required to meet District Standards. Typically, the HVAC systems will include the following:

1. **Lobby and seating area:** Provide HVAC system with separate temperature control zones.
2. **Stage and associated areas:** Provide HVAC system with separate temperature control zones for stage/wings, dressing rooms and workshop.
3. **Piano storage:** Provide small dehumidifier. Provide own separate climate control.
4. **Workshop:** Provide vent for flammable materials storage cabinet. Consideration shall be given to ventilation and life/safety needs (dust collectors, etc.) in the technical/construction workshop area

B. Acoustical - As required to meet District Standards.

C. Floor - As required to meet District Standards.

1. Provide unfinished, right-cut pine stage floor, stained black.
2. Seating area shall be sloped.
3. Aisles, shall be rubberized flooring.
4. Flooring in the technical –construction workshop shall be painted concrete.

- D. Walls** - As required to meet District Standards.
- E. Ceiling** - As required to meet District Standards. The ceiling height for the Technical/Construction workshop shall be 20'.
- F. Lighting** - As required to meet District Standards.
1. Provide ceiling lights in seating area attached to dimmer system.
 2. Provide track lighting in art gallery/lobby area.
 3. Provide spotlights, in projection booth.
 4. Auditorium, backstage and projection room – provide adequate lighting, it is necessary for each section of the auditorium. Each section shall contain adjustable spotlights, banks of fluorescent overhead down-lamps, overhead fixed-surface lighting lamps, aisle down-lamps, etc., all on separate circuits and controlled from projection room.
 5. Provide standard theater stage lights, remotely operated. An overhead grid system with catwalk(s) shall house the specially designed stage lighting system. A proven stage lighting engineer and working stage electricians must be consulted. Overall, three complete separate lighting systems are needed. Controls for these systems shall be located in the projection room. Each shall have separate circuitry and dimmer panels:
 - a. Stage lighting
 - b. Incandescent general lighting in seating area
 - c. Fluorescent general lighting in seating area and on stage
 6. Provide dressing rooms with special makeup lights on wall mirrors, length of wall. Provide multiple, small high wattage lights.
 7. Projection room lighting on rheostats.
 8. Green room – provide diffused overhead lighting.
- G. Windows** - As required to meet District Standards.
1. Provide vision windows from lobby to art garden and from projection room to theater.
 2. Provide slotted window on ticket booth.
- H. Doors** - As required to meet District Standards.
1. Provide overhead doors (18'-20' in height) at rear entrance to technical construction workshop to stage and technical construction workshop to the outside for movement of props and other equipment.
 2. Provide double door with removable mullions leading to seating area from lobby.
 3. Provide double glass door at entrance to art garden.
 4. Provide double door with removable mullion to property storage and piano storage.
 5. Piano storage - doors swing out, if a separate space; piano can be stored adjacent to green room.
 6. Outside door (18'-20' in height) to stage should be a higher overhead door for movement of material.

- I. Water/Plumbing Fixtures** - As required to meet District Standards.
1. Provide scrub sink in property storage and technical construction workshop.
 2. Provide drinking fountains on both sides of stage and outside of dressing rooms.
 3. Provide double sink in technical construction workshop.
 4. Provide sink in concession area.
- J. Communications** - As required to meet District Standards.
1. All items as stated in equipment needed for video projection room (VIII).
 2. Provide four microphone inputs in front stage; four microphone inputs on stage.
 3. Provide stage monitor speakers.
 4. Provide dressing room/recording, green room, monitor speakers.
 5. Provide appropriate communication, wireless system for hearing impaired.
 6. Provide telephone jack in ticket booth.
 7. Wired for ITV, with closed-circuit capability for stage and seating area.
 8. Provide computer capability, in house. Intercom, audio/visual ability easily accessible throughout.
 9. Provide intercom to: ticket booth, orchestra, stage R and L, dressing rooms, technical construction workshop, remote control units, catwalks, projection room, green room, control room
- K. Electrical** - As required to meet District Standards.
1. Electrical wiring designed by professional theater lighting consultant for stage lighting in auditorium, on stage and in video projection studio.
 2. Wiring for technical construction workshop designed by industrial arts design consultant.
- L. Instructional Technology** – As required to meet District Standards. Provide computer/data hook ups in dressing rooms, green room, control room and other designed areas.
- M. Gas and Air** - As required to meet District Standards.
- N. Safety** - As required to meet District Standards.
- O. Fencing** - As required to meet District Standards.
- P. Service Drives** - As required to meet District Standards. Overhead door of backstage in technical construction workshop shall open to a ramp for deliveries and transportation of props, scenery and AV equipment.
- Q. Parking** - As required to meet District Standards. Easy access to auditorium complex.

R. Built-ins

1. Stage Area
 - a. Provide stage curtains with tormentors, teasers, laced-down cyclorama and scrim
 - b. Provide grid.
 - c. Provide weight and counterweight system
 - d. Provide lighting battens
2. Ticket booth – Provide counter top with drawers for use with ticket sales.
3. Lobby/Art Gallery
 - a. Provide lighted, glass cases and encased shelving.
 - b. Provide hooks in ceiling for hanging art.
 - c. Provide lighted, glass case inside and outside lobby area for events displays.
 - d. Provide benches in art garden.
4. Video Projection Room
 - a. Provide counter under vision windows with shelving and large drawer space.
 - b. Provide secured equipment storage cabinet.
 - c. Provide counter and shelves for editing systems.
 - d. Provide wall-mounted monitor shelves.
5. Storage
 - a. Provide open shelving on two walls.
 - b. Provide one large locked cabinet.
6. Dressing Rooms – Provide vanity counter with drawers and cabinets;
7. Technical Construction Workshop – Provide lumber storage area and flat storage area. Provide counter with drawers around sink area. Provide regular storage cabinets.
8. Concession – Provide two rows of shelving under counter; adjustable shelves with a 2" lip. Provide three rows of adjustable shelving on opposite wall from counter.
9. Costume Storage – Provide maximum racks around the perimeter.

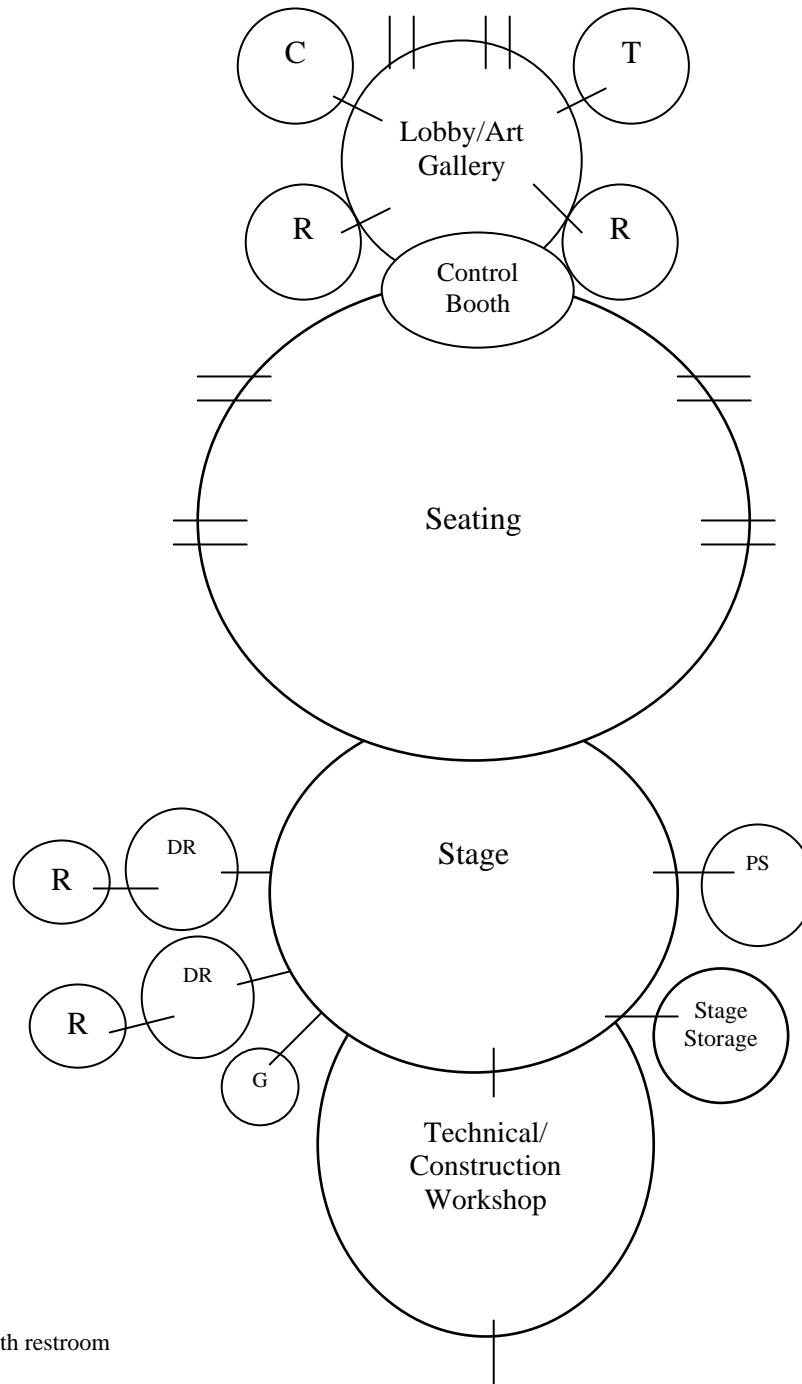
S. Other Considerations

1. Choral/instrumental music rooms/building shall be located behind stage area of auditorium.
2. If video control projection room is located on the second floor, it shall be accessed by ramp or elevator to facilitate movement of equipment.

3. The art garden shall be designed for minimum maintenance.
4. The audio/visual equipment stated throughout above plan, shall be state-of-the-art, designated by appropriate consultants.
5. Verify the size and type of screen used according to the projector types (front and rear), throw distance, size of theater, etc. Screen should be key operated, motorized and come within 2' of stage floor.

SPATIAL RELATIONSHIPS

Auditorium



- C = Concession
- G = Greenroom
- R = Restroom
- T = Ticket Booth
- DR = Dressing Room with restroom
- PS = Piano Storage

COMPUTER/SKILLS DEVELOPMENT

I. PROGRAM PHILOSOPHY

All students shall have the opportunity to gain an understanding of capabilities, applications and social impact of computer technology. As our technology increases more rapidly, it is important for a person to adapt to this changing technology.

II. PROGRAM GOALS

Students will have an opportunity to:

- A. Study computer capabilities and limitations
- B. Investigate computer-related careers
- C. Develop problem solving ability with computers
- D. Acquire a desire for optimum development in computer education
- E. Study different computer languages
- F. Be creatively challenged commensurate with ability.

III. PROGRAM ACTIVITIES

The following courses will be taught in Computer Laboratory:

- A. Computer Applications I/II
- B. Computer Programming I, II & III
- C. Emergent Technologies
- D. Advanced Placement Computer Science

IV. ORGANIZATIONAL NOMENCLATURE

Teacher - Student Ratio: 1:25

Grade Levels for Which Program is Intended: 9 - 12

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

N/A

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.)

N/A

VIII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
COMPUTER/SKILLS LABORATORY							
012	3	Skills Development Laboratory		900	2,700	25	75
808	3	Material Storage		45	135		
TOTAL					2,835		75

VIII. PROGRAM FURNITURE AND EQUIPMENT**A. Laboratory**

No. of Items	Contractor Provided	District Provided (FF&E)	Description
30		X	Workstation with wire management
1		X	Activity Table
2		X	File cabinet, four-drawer, legal, lateral, lockable
30		X	Chair, stackable
1		X	Bookcase
30		X	Computers
4		X	Printers
		X	Computer and printer for teacher
1	X		Marker Board, 4' x 16', with map rails and flag holder.
2	X		Tack Board, 4' x 4'
1	X		80" w x 60" h video format screen with black masking borders
1		X	Pencil sharpener, electric
1	X		Clock
1	X		Multimedia cabinet (refer to General Considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

Refer to **GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROL.**

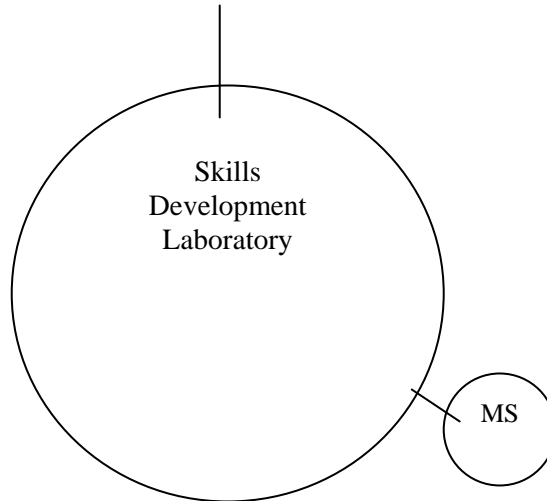
- A. Heating/Cooling/Ventilation** – As required to meet District Standards.
- B. Acoustical** - As required to meet District Standards.
- C. Floor** - As required to meet District Standards.

- D. **Walls** - As required to meet District Standards.
- E. **Ceiling** - As required to meet District Standards.
- F. **Lighting** - As required to meet District Standards.
- G. **Windows** - As required to meet District Standards.
- H. **Doors** - As required to meet District Standards.
- I. **Water/Plumbing Fixtures** – As required to meet District Standards.
- J. **Communications** - As required to meet District Standards.
- K. **Electrical** - As required to meet District Standards.
- L. **Instructional Technology** - As required to meet District Standards. Provide computer/data hook ups for student use to allow perimeter and/or peninsular set-up.
- M. **Gas and Air** - As required to meet District Standards.
- N. **Safety** - As required to meet District Standards.
- O. **Fencing** - As required to meet District Standards.
- P. **Service Drives** - As required to meet District Standards.
- Q. **Parking** - As required to meet District Standards.
- R. **Built-ins**
 - 1. Provide maximum upper cabinets with lockable doors and adjustable shelves with inside clearance of 14”.
 - 2. Provide Multimedia cabinet and workstation - refer to General Considerations.
 - 3. Provide metal shelving (3- 36”w x 18”d x 80”h) in storage.
- S. **Other Considerations**

N/A

SPATIAL RELATIONSHIPS

Computer/Skills Development Laboratories



MS = Material Storage

CUSTODIAL

I. PROGRAM PHILOSOPHY

Staff and students can expect a clean healthful environment in which to teach and learn. A properly organized and trained custodial staff has the ability to ensure the sanitation and regular cleaning of any facility, if their cleaning program is supported through the cooperation of the entire staff and student body. Custodians are allocated based on the size of the school (square feet) in sufficient numbers to maintain the cleanliness of the facility and care must be exercised that cleaning is their primary function. Redirection of the custodial staff to non-cleaning functions can severely impact the cleanliness of the facility. Staff and students help ensure the success of a custodial program through avoiding abuse of the facility. Our investment in school facilities is protected by initial provision and utilization of sufficient, effective equipment and personnel.

II. PROGRAM GOALS

To provide a safe, sanitary and aesthetically acceptable learning and work environment through proper utilization of human resources, material, equipment and methods.

III. PROGRAM ACTIVITIES

- A. Prepare and maintain adherence to work schedules to ensure regular, daily cleaning of the entire facility in accordance with "Instructional Handbook for Custodians."
- B. Maintain personal use facilities (restrooms, water fountains, shower rooms, sinks) in clean and sanitary condition to minimum standards of State Requirements for Educational Facilities (S.R.E.F.) regulations and in accordance with the "Instructional Handbook for Custodians."
- C. Assure that school grounds are kept free of litter and safety hazards.
- D. Report all hazardous conditions immediately.
- E. Observe and adhere to all safety and fire regulations regarding storage of material and maintenance and use of equipment.
- F. Maintain security of buildings during non-school hours.
- G. Report any items in facility in need of repair.
- H. Maintain custodial equipment so that it is clean and usable at all times.
- I. Use only authorized materials, methods and equipment to accomplish program goals.
- J. Maintain orderly storage and running inventory of custodial supplies and reorder as necessary for timely replacement.
- K. Attend training classes as provided.

IV. ORGANIZATIONAL NOMENCLATURE

Number of custodial staff determined as a function of Budget Department.

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

Personnel - Desired trend is to employ more competent custodians with better organized work schedules, in-service training and supervision. Total staff shall be able to read and write and must be able to communicate in English. Custodial foreperson must have demonstrated ability to perform in accordance with all requirements of the position.

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.)

A. 250 NSF is allocated from custodial total for P.E. outdoor storage.

B. 450 NSF from dining for Golf Cart Storage Area to accommodate 5-6 electrical carts.

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
CUSTODIAL							
330/331		Central Receiving, Toilets, Lockers, Showers, Custodial Closets, Workroom & Office (250 NSF to PE Storage)	3,750		3,500		
333	1	Flammable Storage			155		
334	1	Equipment Storage			500		
334	1	Golf Cart Storage (from dining)			450		
TOTAL					4,605		

VIII. PROGRAM FURNITURE AND EQUIPMENT

A. Custodial Foreperson Office

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Desk/workstation with chair
1		X	File cabinet, four-drawer, legal, lateral, lockable
2		X	Side arm chair,
1		X	Computer
1		X	Printer
1	X		Clock

B. Main Custodial Room/Central Receiving /Workroom/Equipment Storage

No. of Items	Contractor Provided	District Provided (FF&E)	Description
4		X	Table with chair
1		X	Workbench
1		X	Time clock, automatic
1		X	Time card rack
1	X		Tack board, 4' x 4'
1		X	File cabinet, four-drawer, legal, lateral, lockable
6		X	Stepadders: two 10', two 6', two 3'H
8		X	Custodial cart
1		X	Flat cart, four-wheel, for material handling
3		X	Vacuum cleaner, heavy-duty, wet/dry, with accessories
3		X	Vacuum cleaner, upright, high productivity, with beater bar
6		X	Vacuum cleaner, backpack, with accessories
1		X	Desk mover
1		X	Floor machine, 18" - 21", high speed, 275 - 300 rpm, for spray buff for resilient floor areas
1		X	Floor machine, 20", burnishing, 1500 - 2000 rpm
4		X	Floor machine, 18"W, standard
4		X	Hand truck
1		X	Telescoping ladder
2		X	Stripping brush, 18"W, Flo-Pac
1		X	Sweeper, battery-powered, interchangeable brush for inside/outside or push-type sweepers, with side broom
4		X	Floor Fan
1		X	Vise
3		X	Tank sprayer, plastic
1	X		First Aid kit, wall-mounted
12		X	Safety goggle
1		X	Screwdriver, set
1		X	Wrench, open-end set
1		X	Wrench, adjustable set (6", 8", 10")
1		X	Hammer
1		X	Electric drill, 3"
1		X	Drill set
1		X	Socket set (40 - piece)
1		X	Offset pliers
1		X	Regular pliers
1		X	Personnel lift for use in gymnasium
1	X		Service sink (HW/CW)
1	X		Safety shower with no curb
1	X		Washer, commercial
1	X		Dryer, commercial
1	X		Eye wash station.
1	X		Refrigerator, residential, 22 cu.ft.
		X	Vending machine(s)
1	X		Fire blanket
	X		Fire extinguishers, per code(s)
1	X		Key box
10	X		Lockers
1	X		Clock
1		X	Time Collection Device
	X		Built-ins (refer to special considerations)

C. Flammable Storage

No. of Items	Contractor Provided	District Provided (FF&E)	Description
2		X	Blower, gasoline-powered, hand-held or backpack
1		X	Pressure sprayer, gasoline-powered
1		X	Pressure cleaner
	X		Fire extinguishers, per code
1	X		Fire blanket
	X		Built-ins (refer to special considerations)

D. Service Closet (per closet)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X		Service sink, floor mounted (HW/CW).
1		X	Service Cart
	X		Built-ins (refer to special considerations)

E. Golf Cart Storage

No. of Items	Contractor Provided	District Provided (FF&E)	Description
5-6		X	Golf Carts, electrical
	X		Built-ins (refer to special considerations)

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

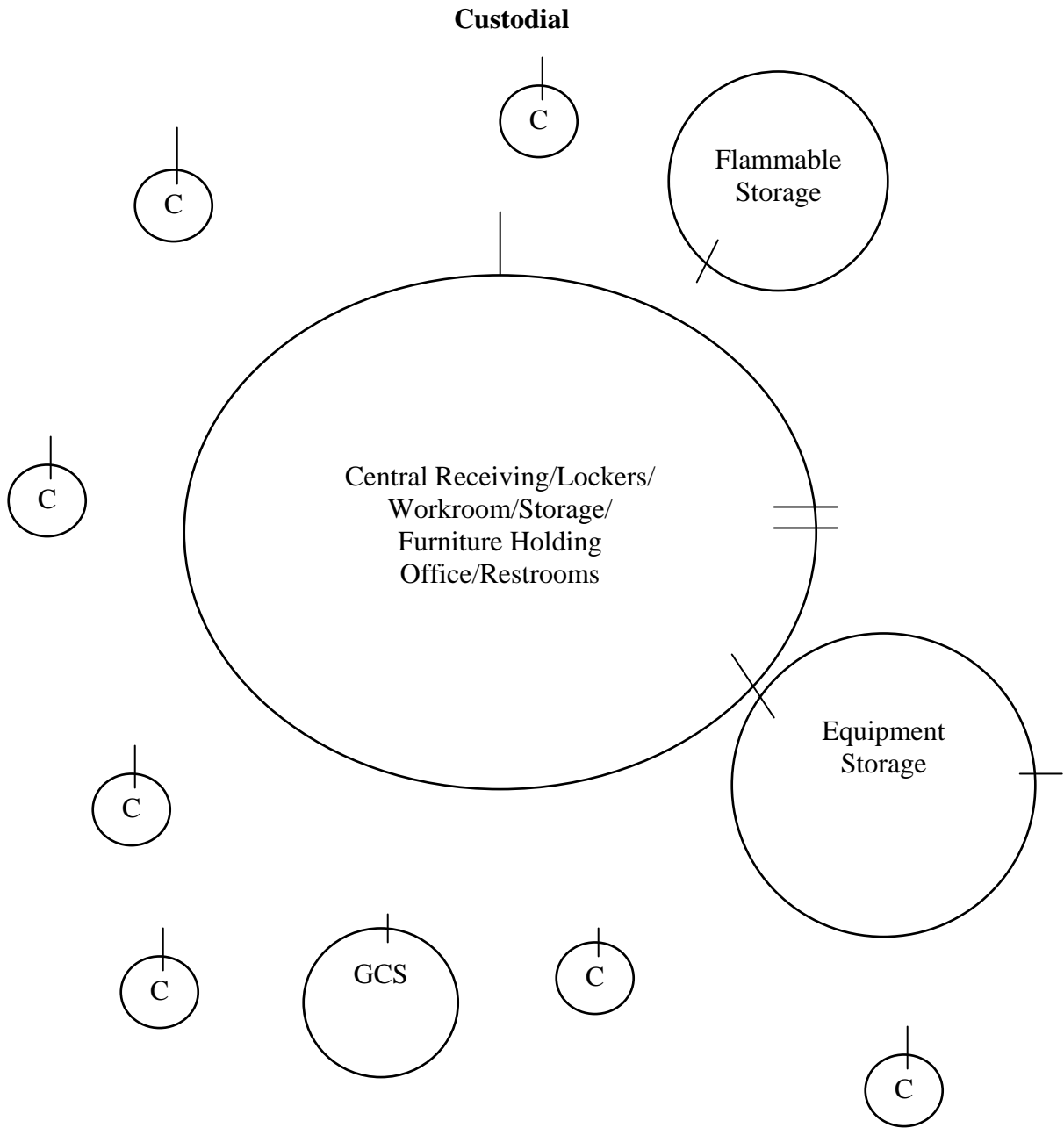
Refer to **GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROL.**

- A. **Heating/Cooling/Ventilation** - As required to meet District Standards.
- B. **Acoustical** - As required to meet District Standards.
- C. **Floor** - As required to meet District Standards.
- D. **Walls** - As required to meet District Standards. One third of central receiving shall be partitioned with wire mesh for security storage.
- E. **Ceiling** - As required to meet District Standards.
- F. **Lighting** - As required to meet District Standards. Provide explosion proof in flammable storage.
- G. **Windows** - Provide vision window from custodian's office to custodial workroom and central receiving. None, for security reasons.

- H. **Doors** - As required to meet District Standards. Provide metal, lockable, extra wide or overhead for receiving. Provide metal for flammable storage area, with at least 6'W opening. Provide metal door with at least 6' W opening for golf cart storage.
- I. **Water/Plumbing Fixtures** - As required to meet District Standards.
- J. **Communications** - As required to meet District Standards.
- K. **Electrical** - As required to meet District Standards
- L. **Instructional Technology** - As required to meet District Standards.
- M. **Gas and Air** - As required to meet District Standards.
- N. **Safety** – As required to meet District Standards.
- O. **Fencing** - As required to meet District.
- P. **Service Drives** - Service drive to central receiving storage area with loading dock. As required to meet District Standards.
- Q. **Parking** - Storage and charging area for battery-powered carts. As required to meet District Standards.
- R. **Built-ins** -
 - 1. **Central Receiving** – Provide adjustable, 18"D, steel shelving, floor-to-ceiling on all walls, plus sufficient, free-standing shelving to provide necessary storage. Provide wire mesh and adjustable, 18"D, steel shelving, floor-to-ceiling for storage area in central receiving.
 - 2. **Service Closets** – Provide adjustable, 12"D, steel shelving, on one wall, mid-wall to ceiling.
 - 3. **Golf Cart Storage** – Provide adjustable, 12"D, steel shelving, on one wall, mid-wall to ceiling.
- S. **Other Considerations**

N/A

SPATIAL RELATIONSHIPS



C = Closets, per SREF
GCS = Golf Cart Storage

DRIVER EDUCATION

I. PROGRAM PHILOSOPHY

In accordance with total school philosophy.

II. PROGRAM GOALS

In accordance with school goals.

III. PROGRAM ACTIVITIES

A. Teacher Activities

1. Lectures
2. Audio-visual presentation
3. Demonstrations
4. Evaluation of students
5. Maintenance of records
6. Preparation and planning
7. Driving instruction on street

B. Student Activities

1. Large group discussion
2. Small group work
3. Demonstrations
4. Display models and mock-ups
5. Psycho-physical testing
6. View audio-visual materials
7. Test taking (verbal and written)
8. Demonstrate driving ability in vehicle

IV. ORGANIZATIONAL NOMENCLATURE

Teacher - Student Ratio 1:25

Grade Levels for Which Program is Intended 9 -12

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

N/A

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.):

- A. Provide resource room adjacent to Driver's Education classroom.

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
DRIVER'S EDUCATION							
003	1	Classroom		810	810	25	25
808	1	Material Storage		45	45		
040	1	Resource Room (combine into 1 space)			780		
TOTAL					1,635		25

VIII. PROGRAM FURNITURE AND EQUIPMENT

A. Classroom

No. of Items	Contractor Provided	District Provided (FF&E)	Description
25		X	Student Combo Desk
1		X	File cabinet, four-drawer, legal, lateral, lockable
1		X	Teacher lectern
1	X		Marker Board, 4' x 16', with map rails and flag holder
2	X		Tack Board, 4' x 4'
1	X		80"w x 60"h video format screen with black masking borders
4		X	Computers
2		X	Printers
1		X	Computer and Printer for teacher
1		X	Pencil sharpener, electric
1	X		Clock
1	X		Multimedia cabinet (refer to General Considerations)
1	X		Workstation (refer to General Considerations)
1		X	DVD/VCR Combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

B. Resource Room

No. of Items	Contractor Provided	District Provided (FF&E)	Description
25		X	Student Combo Desk
1		X	File cabinet, four-drawer, legal, lateral, lockable
1		X	Teacher lectern
4-10		X	Driving Simulators with electrical and data outlets, approximately 30"W x 51"L in size
2	X		Teacher storage cabinet, 36"W x 30"D x 72"H, with adjustable shelving, lockable
2	X		Marker Board, 4' x 8', with map rails and flag holder

No. of Items	Contractor Provided	District Provided (FF&E)	Description
2	X		Tack Board, 4' x 4'
1	X		80''w x 60''h video format screen with black masking borders
4		X	Computers
2		X	Printers
1		X	Computer and printer for teacher
1		X	Pencil sharpener, electric
1	X		Clock
1	X		Multimedia cabinet (refer to General Considerations)
1	X		Workstation (refer to General Considerations)
1		X	DVD/VCR Combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

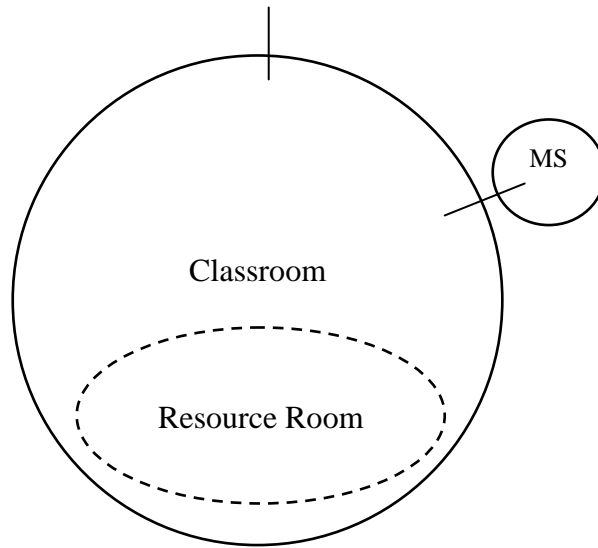
Refer to **GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROL.**

- A. **Heating/Cooling/Ventilation** - As required to meet District Standards.
- B. **Acoustical** - As required to meet District Standards.
- C. **Floor** - As required to meet District Standards.
- D. **Walls** - As required to meet District Standards.
- E. **Ceiling** - As required to meet District Standards.
- F. **Lighting** - As required to meet District Standards.
- G. **Windows** – As required to meet District Standards. Provide a wall of observation windows between the classroom and resource room.
- H. **Doors** - As required to meet District Standards.
- I. **Water/Plumbing Fixtures** - As required to meet District Standards.
- J. **Communications** - As required to meet District Standards.
- K. **Electrical** - As required to meet District Standards.
- L. **Instructional Technology** - As required to meet District Standards.

- M. **Gas and Air** - As required to meet District Standards.
- N. **Safety** - As required to meet District Standards.
- O. **Fencing** - As required to meet District Standards.
- P. **Service Drives** - As required to meet District Standards.
- Q. **Parking** - As required to meet District Standards. Provide for parking convenient to classroom for the driver education vehicle.
- R. **Built-ins**
 - 1. Provide base cabinet with doors, lockable and adjustable shelves, 34"H, and upper cabinets with doors, lockable and adjustable shelves.
 - 2. Provide built-in bookcase, 5'L x 15"D x 40"H with adjustable shelves.
 - 3. Provide computer counter to accommodate four (4) computers and two (2) printers (14'W x 30"D). The counter shall have grommets for wire management.
 - 4. Provide Multimedia cabinet and workstation – refer to General Considerations.
 - 5. Provide metal shelving (3 – 36"w x 18"d x 80"h) in storage.
- S. **Other Considerations** - N/A

SPATIAL RELATIONSHIPS

Driver Education



MS = Material Storage

EXCEPTIONAL STUDENT EDUCATION

I. PROGRAM PHILOSOPHY

All exceptional students are entitled to receive appropriate educational services in the least restrictive environment which will enable them to have full equality of opportunity. Instructional program must fully meet the educational needs of students to the extent that they require special education to develop their maximum potential.

II. PROGRAM GOALS

Students with special learning differences will be provided educational programs designed to meet their individual needs. Diagnostic evaluation, prescriptive planning and implementation of individual student programs will be provided. Individual Educational Plans (IEP) are implemented in inclusive settings with appropriate support, as long as the IEP team determines that the student can or continues to achieve educational benefit.

III. PROGRAM ACTIVITIES

Students with special learning styles will be provided educational programs designed to meet their individual needs. Individualized and small group instruction will be provided in academic, learning strategies, pre-vocational/vocational, and daily living skills curriculum area.

A. Specific Activities

1. Emotionally Handicapped/Severely Emotionally Handicapped

- a. Behavior adjustment and group interaction: behavior management techniques and affective curriculum
- b. Academic instruction: remedial or regular curriculum
- c. Functional life skills
- d. Vocational preparation

2. Educable Mentally Handicapped

- a. Instruction in basic academic skills, social studies and science
- b. Social-personal skills development
- c. Functional life skills
- d. Vocational preparation
- e. Community referenced instruction

3. Trainable Mentally Handicapped

- a. Personal - social development, self management/home living skills
- b. Independent daily living skills, general community functioning skills
- c. Instruction in basic skills, functional academics
- d. Communication, embedded communication/motor/social skills
- e. Vocational preparation

- f. Community based instruction

4. Autistic

- a. Structured program to provide instructional strategies where Students frequently experience success.
- b. Academic instruction: remedial and/or regular curriculum.
- c. Functional life skills.

5. Itinerant Rooms / Supplementary Instruction

- a. Individualized or small group therapy
- b. Diagnostic testing
- c. Itinerant instruction: Hearing Impaired, Visually Impaired, Speech-Language Impaired)
- d. Psychological evaluations

6. Teacher Planning

- a. Program development
- b. Material preparation
- c. Conferences
- d. Office for department chairperson

IV. ORGANIZATIONAL NOMENCLATURE

Teacher - Student Ratio

Self contained Instructional Classrooms: 1:10

Includes Physically Handicapped, Emotionally Handicapped and Trainable Mental Handicapped.

Part-Time Instructional Classrooms: 1:15

Includes Educable Mentally Handicapped, Specific Learning Disability, Hearing/Visually Impaired.

Laboratory: 1:12

Grade Levels for Which Program is Intended 9 - 12

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

- A. After school and adult education classes specific to each exceptionality, e.g., Emotionally Handicapped - day treatment
- B. General use - Availability of interactive video with appropriate hook-ups. Access to computers in each classroom.
- C. Laboratory – One of the two laboratories shall be designed as a F.A.C.B.C. model apartment for teaching life skills (Trainable Mentally Handicapped Laboratory). It

includes kitchen, laundry, and bathroom facilities.

- D. Other instructional uses can be for programs for English for Speakers of Other Languages.

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.)

- A. ESE classrooms and related spaces shall be disbursed throughout the campus in compliance with the School District inclusion philosophy and can be used as general classrooms for flexibility purposes.
- B. ESE restroom/changing room with shower, 3' x 5', wheelchair, roll-in capability, toilet, cot and sink in compliance with F.A.C.B.C. shall be provided. Restroom shall be a separate sterile space with private corridor entrance opening to the hallway and located near an elevator and in the instructional wing.
- C. One Laboratory shall be located adjacent to at least two (2) Self-Contained Classrooms. This laboratory shall be designed as a F.A.C.B.C. model apartment for teaching life skills. It includes kitchen, laundry and bathroom facilities. This shall be located on the first floor.
- D. One laboratory shall be designed as the ESE Admin Suite to include Reception, Offices, Conference /Teacher Planning area, Storage & Staff Restroom.
- E. Material Storage and Student Storage shall be folded into the ESE Resource Room to create a larger instructional space.
- F. Combine Storages to create two (2) ESE Department Storage rooms.
- G. Supplementary Instruction spaces are to be used for Speech, Hearing and Vision Testing and for Crisis Intervention Office & Psychological Testing.
- H. ESE classrooms should be located on the ground floor whenever possible.

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Sta. Total.
				EXCEPTIONAL STUDENT EDUCATION			
061	5	Part-Time Classroom		900	4,500	15	75
808	5	Material Storage		45	225		
		Subtotal			4,725		
062	5	Self Contained Classroom		900	4,500	10	50
808	5	Material Storage		45	225		
817	5	Restroom, Student		45	225		

DRAFT SEPTEMBER 2006

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
		Subtotal			4,950		
063	1	Laboratory		1,140	1,140	12	12
808	1	Material Storage		45	45		
817	1	Restrooms & Showers		110	110		
		Subtotal			1,295		
		ESE Administrative Suite					
304	1	Reception/Secretary		225	225		
301	2	Office		150	300		
306	1	Conference/Planning/Testing		300	300		
308	1	Storage		100	100		
819/820		Staff Restroom (from allotment)					
		Subtotal			925		
066	2	Supplementary Instruction		200	400		
70	4	Office/Testing/Itinerant		200	800		
		Subtotal			1,200		
065	5	ESE Resource Room with storage folded into room		520	2,600		
		Subtotal			2,600		
817	1	ESE Changing Room/Restroom			150		
308	2	ESE Department Storage		200	400		
		Subtotal			550		
		TOTAL			16,245		137

VII. PROGRAM FURNITURE AND EQUIPMENT

A. Self-Contained

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Teacher desk and chair
1		X	File cabinet, four-drawer, vertical or lateral, lockable
3		X	Activity table
2		X	Cabinet, general storage with four adjustable shelves on one side, marker board on the other, with casters
2		X	Cabinet, cubbies with plastic trays on one side, marker board on the other.
1		X	Bookcase, double-sided, three adjustable shelves on each side, with casters
4		x	Carrel, free-standing, with storage shelf & grommets
10-12		X	Chairs, stackable, 18", plastic
1	X		Marker Board, 4' x 16', with map rails and flag holder
3	X		Tack Board, 4' x 4'
1	X		80"w x 60"h video format screen with black masking

No. of Items	Contractor Provided	District Provided (FF&E)	Description
			borders
4		X	Computers
2		X	Printers
1		X	Computer and printer for teacher
1		X	Pencil sharpener, electric
1	X		Clock
1	X		Multimedia cabinet (refer to General Considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

B. Part - Time

No. of Items	Contractor Provided	District Provided (FF&E)	Description
10-15		X	Student desk, adjustable
1		X	File cabinet, four-drawer, vertical or lateral, lockable
4		X	Activity Table
2		X	Cabinet, general storage with four adjustable shelves on one side, marker board on the other, with casters
5		X	Carrel, free-standing with storage shelf & grommets
15-17		X	Chairs, stackable,
1	X		Marker Board, 4' x 16', with map rails and flag holder
3	X		Tack Board, 4' x 4'
1	X		80"w x 60"h video format screen with black masking borders
4		X	Computers
2		X	Printers
1		X	Computer and printer for teacher
1		X	Pencil sharpener, electric
1	X		Clock
1	X		Multimedia cabinet (refer to General Considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

C. Laboratory (apartment)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Appropriate furniture for a one-bedroom apartment
1	X		Stainless steel, double sink with goose neck faucet (CW) and garbage disposal
1	X		Dishwasher
1	X		Washer
1	X		Dryer
1	X		Hooded stove & oven, residential
1	X		Refrigerator, 22 cu.ft.
1	X		Microwave oven
4		X	Computers
2		X	Printers
1		X	Computer and Printer for teacher
2	X		Marker Board, 4' x 8', with map rails and flag holder
3	X		Tack Board, 4' x 4'
1	X		80"w x 60"h video format screen with black masking borders
1		X	Pencil sharpener, electric
1	X		Clock
1	X		Multimedia cabinet (refer to General Considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

*Note: all appliances must be FACBC compliance.

D. Laboratory (ESE Admin Suite); Reception, Offices, Conference/ Planning

No. of Items	Contractor Provided	District Provided (FF&E)	Description
4		X	Reception Chairs
2		X	Side Chairs (per office)
1		X	Desk/Workstations & Chair (per office)
1		X	File Cabinet, Four drawer, vertical or lateral, lockable (per office)
1		X	Computer (per office)
1		X	Printer (per office)
1	X		Tack Boards, 3' x 4'(per office)
1		X	Conference Table
8		X	Conference Chairs
1	X		80"w x 60"h video format screen with black masking

No. of Items	Contractor Provided	District Provided (FF&E)	Description
			borders (at Conference/Planning)
1	X		Marker Board, 4' x 8' (at Conference/Planning)
1	X		Clock
1	X		Built-ins (refer to special considerations)

E. Resource Room

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	File cabinet, four-drawer, vertical or lateral, lockable
1		X	Activity Table
4		X	Computer table
7-10		X	Chairs, stackable, 17", plastic
1	X		Teacher storage cabinet, 36"W x 30"D x 72"H, with adjustable shelving, lockable
2	X		Marker Board, 4' x 8', with map rails and flag holder
3	X		Tack Board, 4' x 4'
1	X		80"w x 60"h video format screen with black masking borders
4		X	Computers
2		X	Printers
1		X	Computer and printer for teacher
1		X	Pencil sharpener, electric
1	X		Clock
1	X		Multimedia cabinet (refer to General Considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

F. Supplementary Instruction Room / Office Testing

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Teacher desk and chair
1		X	File cabinet, four-drawer, vertical or lateral, lockable
1		X	Activity Table
4-6		X	Chairs, stackable, 17", plastic
1	X		Teacher storage cabinet, 36"W x 30"D x 72"H, with adjustable shelving, lockable
1	X		Marker Board, 4' x 8', with map rails and flag holder
2	X		Tack Board, 4' x 4'
1	X		80"w x 60"h video format screen with black masking

No. of Items	Contractor Provided	District Provided (FF&E)	Description
			borders
1		X	Computers
1		X	Printers
1		X	Pencil sharpener, electric
1	X		Clock
1	X	X	Sound Field Enhancement in one room
1	X		Multimedia Cabinet with teacher station connectivity in one room

G. ESE Restroom

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Cot
1	X		F.A.C.B.C. Shower with no curb and with fold down seat in shower
	X		Built-ins (refer to special considerations)

IX. SPECIAL CONSIDERATIONS

- A. Heating/Cooling/Ventilation** - As required to meet District Standards.
- B. Acoustical** - As required to meet District Standards.
- C. Floor** - As required to meet District Standards.
- D. Walls** - As required to meet District Standards.
- E. Ceiling** - As required to meet District Standards.
- F. Lighting** - As required to meet District Standards.
- G. Windows** - As required to meet District Standards.
- H. Doors** - As required to meet District Standards.
- I. Water/Plumbing Fixtures** - As required to meet District Standards.
- J. Communications** - As required to meet District Standards. Provide a telephone jack and a dedicated line for telecommunication hearing and visually impaired.
- K. Electrical** - As required to meet District Standards.
- L. Instructional Technology** - As required to meet District Standards.

- M. **Gas and Air** - As required to meet District Standards.
- N. **Safety** – As required to meet District Standards.
- O. **Fencing** – As required to meet District Standards.
- P. **Service Drives** - As required to meet District Standards. Laboratory shall be accessible for commercial delivery.
- Q. **Parking** – As required to meet District Standards.
- R. **Built-ins**
 - 1. **Self Contained; Part-Time & ESE Resource Rooms**
 - a. Provide base cabinets with lockable doors and adjustable shelves and upper cabinets with lockable doors and adjustable shelves. No cabinets in Resource Rooms.
 - b. Provide built-in bookcase, 5'L. x 15"D. w/adjustable shelves. No bookcase in Resource Rooms.
 - c. Provide computer counter to accommodate four (4) computers and two (2) printers (14'Wx 30"D). Counter shall have grommets for wire management. No built-in computer counter in ESE Resource Rooms.
 - d. Provide Multimedia cabinet and workstation - refer to General Considerations.
 - e. Provide metal shelving (3 – 36" w x 18" d x 80" w) in storage.
 - 2. **Laboratory (apartment)**
 - a. Provide storage unit, 1'D x 3'W x 7'H, with adjustable shelves.
 - b. Provide storage unit (3), 18"D x 3'W x 7'H, with adjustable shelves.
 - c. Provide floor-to-ceiling shelves with compartments, 18"W x 12"D.
 - d. Clothing/Laundry Area
 - (1) Provide storage cabinets, 18"D x 3'W x 7'H, adjustable shelves and locks
 - e. Kitchen Area Equipment
 - (1) Provide base and upper cabinets with doors; two bases with one

drawer each and one base with four drawers

- (2) Provide food storage cabinet, approximately, 1'D x 3'W x 3'H, over base cabinet
- (3) Provide closed base cabinet (2), with one drawer each
- (4) Provide island with scratch resistant cutting surface

f. Provide Multimedia cabinet and workstation. Refer to General Considerations.

3. **ESE Dept. Storage**

a. Provide metal adjustable shelving on three walls, floor to ceiling.

4. **ESE Restroom**

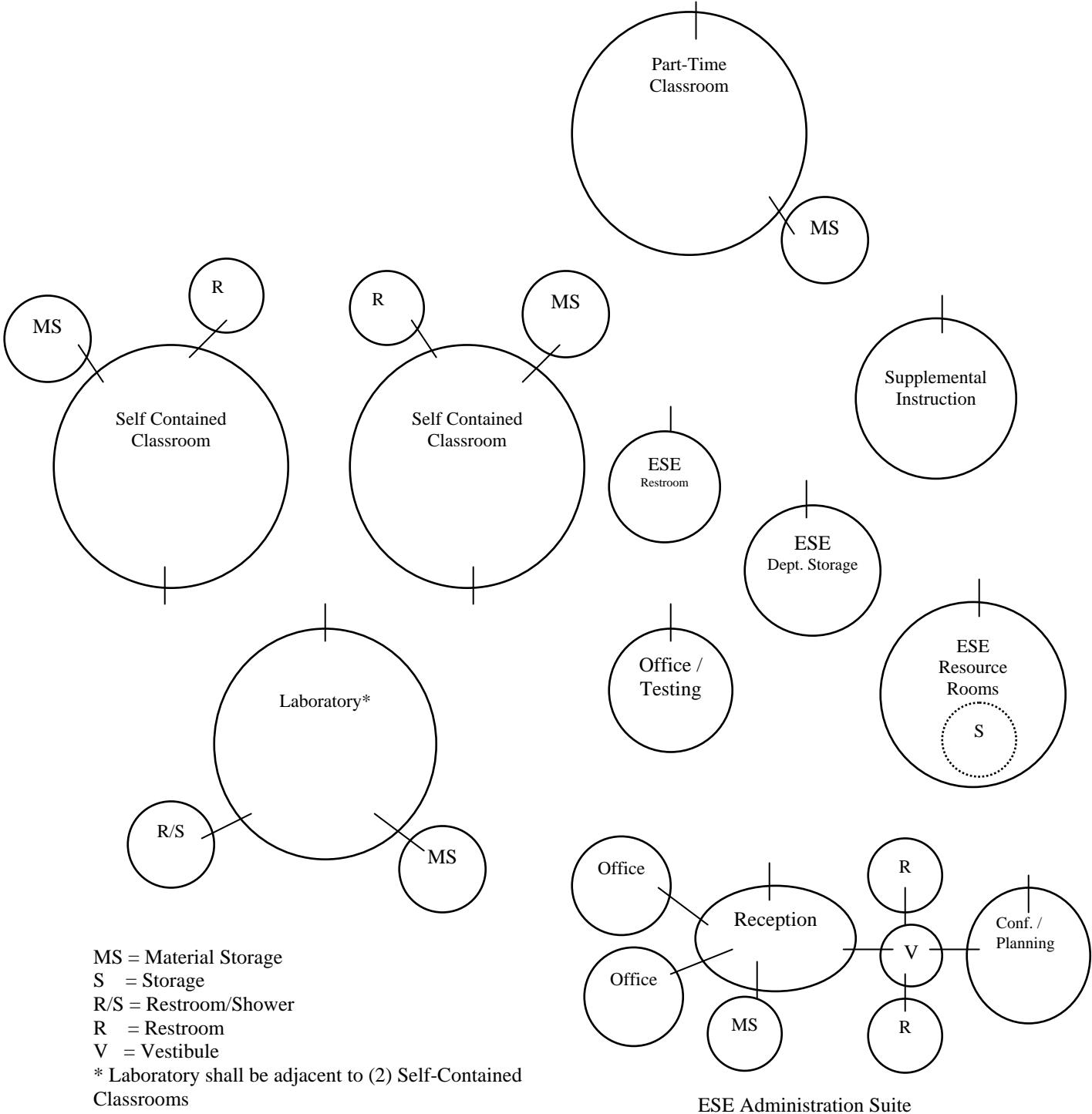
a. Provide storage cabinet 24''w.x 18''d.x 72''h, w/adjustable shelves and lockable doors.

S. Other Considerations

1. The use of observation window(s) in ESE classroom(s) will be reviewed on a school by school basis.
2. The architect shall work with District staff with regards of the placement of ESE classrooms on the floor plan.

SPATIAL RELATIONSHIPS

Exceptional Student Education



Not all rooms are shown

FOOD SERVICE

I. PROGRAM PHILOSOPHY

Refer to overall. (Page 1)

II. PROGRAM GOALS

- A. School Food Service intends to offer nutritious foods necessary to maintain good health and welfare for all students.
- B. School Food Service shall provide gainful educational experiences relating to nutrition for students.
- C. The School Food Service facilities shall also serve school and community functions.

III. PROGRAM ACTIVITIES

A. Dining

- 1. Student dining
- 2. Faculty dining

B. Kitchen

- 1. Preparation of food
 - a. Baking
 - b. General preparation
 - c. Production

C. Servery

- 1. Student serving lines
- 2. Serving line support equipment

D. Storage and Maintenance

- 1. Receiving
- 2. Food storage
- 3. Non-Food storage
- 4. Can wash
- 5. Laundry
- 6. Food Service Mop Room

E. Warewashing and Refuse Removal

1. Dishwasher
2. Pulping system
3. Pot Washing

F. Staff Areas

- a. Employee restrooms
- b. Office

IV. ORGANIZATIONAL NOMENCLATURE

Student capacity per feeding period: 835
Total number of students fed per day: 2,500
Grade levels for which program is intended: 9 -12

V. INNOVATIONS, EXPERIMENTAL IDEAS, AND OTHER PLANNED USES

- A. Teacher dining/lounge shall be accessible from outside main dining room and convenient to serving area. Shall also be accessible from the kitchen.
- B. Servery shall be food court style with 6 speed line points of sale and 1 conventional serving line.
- C. Outside 4 walk-up windows shall accommodate dining and accessible from the kitchen. The windows shall accommodate the students via the courtyard and/or the dining room.
- D. Dining area shall be accessible from parking area to facilitate community use.
- E. Consideration shall be given to students entering and exiting the cafeteria to avoid congestion.
- F. Consideration shall be given for large group meetings such as community activities, school activities, and school dances.
- G. Utilities shall be installed for additional POS lines in strategic areas to include: student parking area, student bus loop, and the school courtyards.
- H. An outdoor covered dining area appears on the high school facility list and may be provided as the architectural design allows.

VI. JUSTIFICATION FOR VARIANCE FROM SREF REQUIREMENTS

- A. 600 NSF from Kitchen shall be used for a stadium press box.
- B. 450 NSF from Dining for Custodial Golf Cart Storage.
- C. The kitchen area shall be 8,190 NSF based upon the prototype kitchen designed by SDPBC School Food Service.
- D. 800 NSF from Dining shall be used to increase the square footage for the PE Weight Room.

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Sta. Total.
FOOD SERVICE							
340	1	Dining (450 NSF to Custodial Golf Cart Storage & 800 to PE Weight Room)	9,000		7,750		
341	1	Kitchen (including office and restroom - prototype) (600 NSF to stadium press box)	8,790		8,190		
349	1	Chair Storage			500		
316	1	Staff Dining/Lounge			1,000		
819/820		Staff Restrooms (out of allotment)					
815/816		Student Restrooms (out of allotment)					
TOTAL					17,440		

VIII. PROGRAM FURNITURE AND EQUIPMENT

A. Student Dining Area

No. of Items	Contractor Provided	District Provided (FF&E)	Description
170		X	Cafeteria table, folding, 29" maximum height
950		X	Cafeteria chair, one per student for largest service period; 18" is suggested as a suitable seat height for all age groups
		X	Vending machine(s)
1	X		Video Format Screen with black masking borders, 10' x 12', electrically operated
1	X		Multimedia cabinet (refer to General Considerations)

B. Facility Dining Area

No. of Items	Contractor Provided	District Provided (FF&E)	Description
15		X	Table, round, folding
75		X	Chair, stackable
		X	Vending machine(s)
	X		(10) linear feet of base and wall cabinets, to include (1) sink and (1) adjacent bank of (3) graduated drawers. The counter top is to be 36" above the finished floor.
1	X		18 cubic foot refrigerator
1	X		Microwave
	X		Provide serving equipment consisting of the following components: 4-well hot food unit with sneeze guard; 60" refrigerated cold pan with over shelf and sneeze guard; (2) 36" open top utility counters for desert display.

C. Employee Restroom/Locker Area

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X		Full-length mirror.
15	X		Individual coat sized lockers with locks.
1	X		First aide cabinet

D. Office

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Desk & Chair
1		X	Filing Cabinet
1		X	Computer
1		X	Printer
1		X	Fax Machine
	X		(6) linear feet of counter top with base cabinets and wall cabinets. Wall cabinets to be 14" deep and located over countertop.

Refer to SDPBC School Food Service Department's Generic Educational Specification for layouts, equipment and Special Considerations.

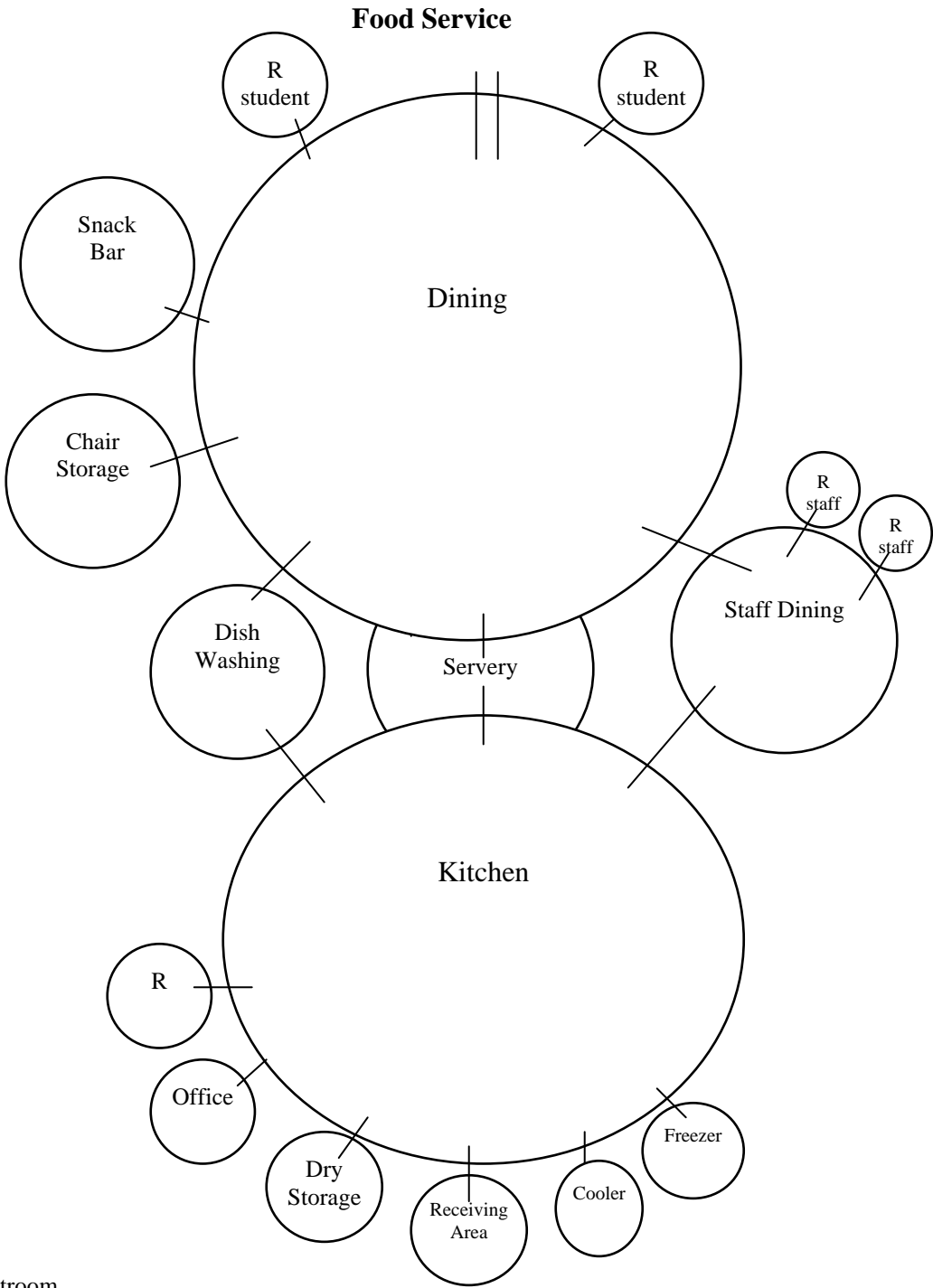
IX. SPECIAL CONSIDERATIONS – CONTRACTOR PROVIDED

Refer to **GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROL.**

A. Heating/Cooling/Ventilation – As required to meet District Standards.

- B. **Acoustical** – As required to meet District Standards.
- C. **Floor** – As required to meet District Standards.
- D. **Walls** — As required to meet District Standards.
- E. **Ceiling** – As required to meet District Standards.
- F. **Lighting** – As required to meet District Standards.
- G. **Windows** – As required to meet District Standards.
- H. **Doors** – As required to meet District Standards.
- I. **Water** – As required to meet District Standards.
- J. **Communication** – As required to meet District Standards.
- K. **Electrical** – As required to meet District Standards.
- L. **Instructional Technology** – As required to meet District Standards.
- M. **Gas and Air** - - As required to meet District Standards.
- N. **Safety** – As required to meet District Standards.
- O. **Fencing** – As required to meet District Standards.
- P. **Service Drives** – As required to meet District Standards.
- Q. **Parking** - Space for (12) food service employee’s, satellite vans, and delivery vehicles. As required to meet District Standards.
- R. **Built-Ins** – Tack board, 8’ X 4’ in dining area, 4’ X4’ in kitchen preparation area, 4’ X 4” in employee locker area. Provide Multimedia cabinet – refer to General Considerations.
- S. **Other Considerations**
 - 1. Contact Dept. of Food Service for location of Time Collection Device.

SPATIAL RELATIONSHIPS



R = Restroom

FOREIGN LANGUAGE

I. PROGRAM PHILOSOPHY

All students shall be given the opportunity to learn to communicate in a foreign language and to learn something of the cultures of our neighbors around the world.

II. PROGRAM GOALS

Promote the development of the four skills of language, speaking, listening, and reading to a level commensurate with the ability of the student, on each level of instruction.

III. PROGRAM ACTIVITIES

A. Curriculum

1. Spanish I, II, III, IV, V
2. AP Spanish Language
3. French I, II, III, IV
4. AP French Language
5. Latin I, II, III,
6. German I, II, III
7. Spanish for Spanish Speaking Students I, II, III, IV

B. Teacher Activities

1. Work with individual students, small groups, and classes on discussions and projects.
2. Plan bulletin boards, learning center activities.
3. Recommend purchase and use of materials and equipment.
4. Coordinate classes within the department.
5. Plan and lead field trips.
6. Provide opportunities for comprehension activities.
7. Provide opportunities for oral practice in the target language.
8. Present subject matter in the classroom in a variety of ways.
9. Utilize community resources.
10. Provide the means and techniques for teacher and student evaluation of subject materials.
11. Conduct conferences with students, parents and administrators.

C. Student Activities

1. Think - Creative thinking, problem solving, logical deductions.
2. Speak - Text materials, reference books, reports, magazines, fiction, cultural material, newspapers.
3. Read - Text materials, reference books, reports, magazines, fiction, cultural material, newspapers.

4. Write - Summaries, outlines, conversational materials, poetry.
5. View - Videos, pictures, works of art, TV, maps, charts, globes
6. Inspect - Artifacts, regalia from the foreign cultures, relief maps, pictures and paintings, works of art.
7. Make - Booklets, displays, posters, scrapbooks, bulletin boards, maps, replicas, dioramas, mobiles, murals.
8. Visit - Local cultural presentations, historical sites, ethnic enclaves.

IV. ORGANIZATIONAL NOMENCLATURE

Teacher - Student Ratio 1:25

Grade Levels for Which Program is Intended 9 - 12

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

- A. Classroom areas may be used for community school activities.
- B. Related areas adjacent to classrooms will provide space for small group instruction, committee work and computer-assisted instruction.

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.)

N/A

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
FOREIGN LANGUAGE							
003	5	Classroom		810	4,050	25	125
808	5	Material Storage		45	225		
TOTAL					4,275		125

VIII. PROGRAM FURNITURE AND EQUIPMENT**A. Classroom**

No. of Items	Contractor Provided	District Provided (FF&E)	Description
25		X	Student desk combo
1		X	File cabinet, four-drawer, legal, lateral, lockable
1		X	Table, 30" x 72"
4-10		X	Chairs, stable, 17", plastic
1		X	Lectern
1		X	Stool
1	X		Marker board, 4' x 16', with map rails and flag holder
2	X		Tack Board, 4' x 4'
1	X		80"w x 60"h video format screen with black masking borders
4		X	Computers
2		X	Printers
1		X	Computer and printer for teacher
1		X	Pencil sharpener, electric
1	X		Clock
1	X		Multimedia cabinet (refer to General Considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

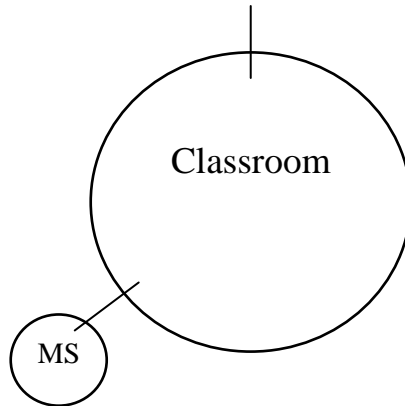
Refer to **GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROL.**

- A. **Heating/Cooling/Ventilation** - As required to meet District Standards.
- B. **Acoustical** - As required to meet District Standards.
- C. **Floor** - As required to meet District Standards.
- D. **Walls** - As required to meet District Standards.
- E. **Ceiling** - As required to meet District Standards.
- F. **Lighting** - As required to meet District Standards.
- G. **Windows** - As required to meet District Standards.
- H. **Doors** - As required to meet District Standards.

- I. **Water/Plumbing Fixtures** - As required to meet District Standards.
- J. **Communications** - As required to meet District Standards. Provide wiring and jacks to receive software, multimedia device and camera/video playback in each classroom from a central location within the school. Provide wire molding to accommodate the electrical wiring and cabling required for the networking and interfacing of the language laboratory and its computers and file server.
- K. **Electrical** - As required to meet District Standards
- L. **Instruction Technology** - As required to meet District Standards.
- M. **Gas and Air** - As required to meet District Standards.
- N. **Safety** – As required to meet District Standards.
- O. **Fencing** – As required to meet District Standards.
- P. **Service Drives** – As required to meet District Standards.
- Q. **Parking** – As required to meet District Standards.
- R. **Built-ins**
 - 1. Provide base cabinet with lockable doors and adjustable shelves and upper cabinets with lockable doors and adjustable shelves.
 - 2. Provide built-in bookcase, 5'L x 15"D x 40"H with adjustable shelves.
 - 3. Provide computer counter to accommodate four (4) computers and two (2) printers (14'W x 30"D). The counter shall have grommets for wire management.
 - 4. Provide Multimedia cabinet and workstation - refer to General Considerations.
 - 5. Provide metal shelving (3 – 36"w x 18"d x 80"h) in storage.
- S. **Other Considerations** - N/A

SPATIAL RELATIONSHIPS

Foreign Language



MS – Material Storage

Not all spaces are shown

GENERAL CLASSROOMS

I. PROGRAM PHILOSOPHY

The high school program is organized around, and focused on, personal and societal goals that help students become effective participants in the social world.

II. PROGRAM GOALS

The high school program goals center around the preparation of students for more reflective and effective participation in their society. The program goals would include the following:

- A. Socialization - aimed at helping the student become an effective member of social groups.
- B. Decision-making Processes - aimed at helping students to make effective use of intellectual skills in reaching decisions about his/her social concerns.
- C. Citizenship - aimed at helping the students to use more effectively the processes of a representative-democratic government.
- D. Knowledge Acquisition - aimed at helping the student to acquire and utilize information and intellectual skills provided through the curriculum.

In addition, the program will stress the assimilation of three important components: subject, learner and society.

III. PROGRAM ACTIVITIES

A. Student Activities

1. Think - Creative and critical thinking, problem solving, associations.
2. Speak - Speeches, explanations, dramatizations, demonstrations, simulations, class and panel discussions.
3. Read - Textbooks, reference books, reports, magazines, newspapers, fiction, trade books.
4. Write - Creative writing, reports, research papers, outlines, summaries, speeches, comparisons.
5. View - Films, pictures, T.V., maps, charts, globes.
6. Inspect - Relief maps, roads maps, globes, artifacts, samples, pictures, charts, graphs.
7. Construct - Booklets, displays, posters, scrapbooks, graphs, bulletin boards,

maps, charts, diagrams, time lines, pictures, replicas, dioramas, mobiles, murals.

IV. ORGANIZATIONAL NOMENCLATURE

Teacher - Student Ratio 1:25

Grade Levels for Which Program is Intended 9 - 12

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

- A. Areas may be used for night class and community school activities.
- B. The architect shall study the shape of typical classrooms to provide for efficient operation and communication, utilizing marker board and wall-mounted illustrations. The spaces must also provide flexibility for large and small group instruction as well as the capability for individualization. Computerized lab activities will be incorporated into instructional program.

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.)

- A. One classroom to be designated for health class.

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
GENERAL CLASSROOMS							
003	24	Classroom		810	19,440	25	600
808	24	Material Storage		45	1,080		
TOTAL					20,520		600

VIII. PROGRAM FURNITURE AND EQUIPMENT

A. Classroom

No. of Items	Contractor Provided	District Provided (FF&E)	Description
25		X	Student combo desk
1		X	File cabinet, four-drawer, legal, lateral, lockable
1		X	Table, 30" x 72"
1		X	Lectern
1		X	Stool
1	X		Marker board, 4' x 16', with map rails and flag holder
2	X		Tack Board, 4' x 4'
1	X		80"w x 60"h video format screen with black masking borders

No. of Items	Contractor Provided	District Provided (FF&E)	Description
4		X	Computers
2		X	Printers
1		X	Computer and printer for teacher
1		X	Pencil sharpener, electric
1	X		Clock
1	X		Multimedia cabinet (refer to General Considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

IX. SPECIAL CONSIDERATIONS – CONTRACTOR PROVIDED

Refer to GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROL,

- A. Heating/Cooling/Ventilation - As required to meet District Standards.
- B. Acoustical - As required to meet District Standards.
- C. Floor - As required to meet District Standards.
- D. Walls - As required to meet District Standards.
- E. Ceiling - As required to meet District Standards.
- F. Lighting - As required to meet District Standards.
- G. Windows - As required to meet District Standards.
- H. Doors – As required to meet District Standards.
- I. Water/Plumbing Fixtures - N/A
- J. Communications - As required to meet District Standards.
- K. Electrical - As required to meet District Standards
- L. Instruction Technology - As required to meet District Standards.
- M. Gas and Air - As required to meet District Standards.
- N. Safety – As required to meet District Standards.
- O. Fencing – As required to meet District Standards.

P. Service Drives – As required to meet District Standards.

Q. Parking – As required to meet District Standards.

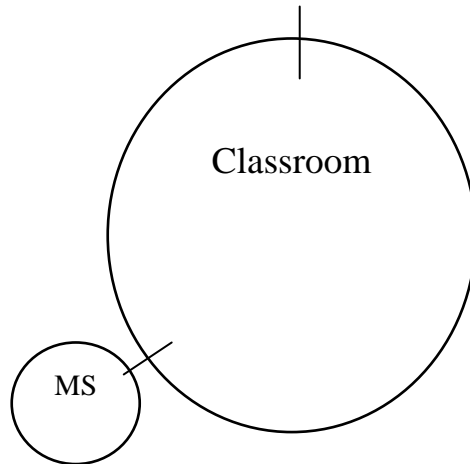
R. Built-ins

1. Provide base cabinet with lockable doors and adjustable shelves and upper cabinets with lockable doors and adjustable shelves.
2. Provide built-in bookcase, 5'L x 15"D x 40"H with adjustable shelves.
3. Provide computer counter to accommodate four (4) computers and two (2) printers (14'W x 30"D). The counter shall have grommets for wire management.
4. Provide Multimedia cabinet and workstation - refer to General Considerations.
5. Provide metal shelving (3 – 36"w x 18"d x 80"h) in storage.

S. Other Considerations - N/A

SPATIAL RELATIONSHIPS

General Classrooms



MS – Material Storage

LANGUAGE ARTS

I. PROGRAM PHILOSOPHY

Language Arts encompasses an extensive range of communication skills and of artistic expression, as well as the body of knowledge about the English language and literature. Although the development of communication skills is a lifelong process, the extent to which students become proficient in these skills while at school is vitally related to their future abilities to function independently and productively in life. Language expresses human imagination and is a primary vehicle for transmitting culture. Literature study provides students with insights into human values, experience and potential, and enables them to acquire familiarity with, and appreciation for, literary masterworks. Since language itself is an important means of giving shape to experience and knowledge and of expressing human hopes and feelings, students shall be instructed in the ways in which language functions and in ways of controlling and using language.

II. PROGRAM GOALS

Instruction in Language Arts involves the skills of reading, writing, speaking, listening and observing. Goals of the English program include the following:

- A. Development of skills which are basic to most other subjects studied and useful, if not vital, to success in our highly verbal culture;
- B. Close acquaintance with the literary tradition which comprises the subject matter unique to English, the broad cultural heritage of the English-speaking people--religious, technological, political, sociological and artistic;
- C. Enhancement of critical judgment through practice in and awareness of, the ways language shapes our world;
- D. Development of the powers of comprehension, of critical thinking and of coherence and fluency in expression;
- E. Presentation of literary works that promote humanistic attitudes, aesthetic appreciation, critical evaluation, and positive leisure and civic pursuits.

III. PROGRAM ACTIVITIES

A. Curriculum

- 1. Composition--imaginative/expressive, informative, expository, persuasive
- 2. Literature--American, British, world, classical, contemporary
- 3. Humanities
- 4. Semantics and logic
- 5. Mass media--publications, film, video, radio

6. Journalism
7. Speech
8. Debate
9. Reading

B. Classroom Activities

1. Classrooms

- a. Lecture
- b. Lecture/discussion
- c. Demonstration
- d. Supervised study
- e. Small group discussions
- f. Role-playing
- g. Simulation gaming
- h. Individual skills development
- i. Testing
- j. Viewing of videos
- k. Listening to CDS
- l. Developing skills - multimedia: computers, laser disks, CD-Rom

2. Publications

- a. Lecture
- b. Demonstration
- c. Supervised study
- d. Small group/committee work
- e. Individual skills development
- f. Testing

3. Speech Classroom

- a. Lecture
- b. Lecture/discussion
- c. Demonstration
- d. Small group discussion
- e. Panel discussion
- f. Delivering individual speeches
- g. Debating, individual and team
- h. Viewing videos
- i. Listening to CDS
- j. Audio and video
- k. Testing
- l. Supervised study
- m. Role-playing

- n. Performing skits, broadcasts and commercials
- o. Community school classes and meetings
- p. Guest performers/speakers
- q. Rehearsal
- r. Staging/blocking
- s. Oral interpretation

4. Speech/Debate Resource Room for Rehearsal

- a. Individual rehearsal
- b. Individual and group skill practice
- c. Filming
- d. Small group discussion
- e. Debate strategy planning sessions

5. Speech/Debate Resource Room

- a. Research for debate preparation
- b. Storage of debate materials
- c. Sorting and filing
- d. Individual speech preparation
- e. Small group work/discussion

6. Reading/Computer Skills Laboratory - Remedial, Corrective, and Developmental

- a. Individual and small group skills development
- b. Listening CDS
- c. Computer use, teacher and students
- d. Testing
- e. Individual and parent conferences
- f. Demonstration
- g. Supervised study
- h. Detailed record keeping

7. Writing Resource Room

- a. Diagnostic testing
- b. Individual skills development
- c. Demonstration
- d. Small group discussion/tutoring
- e. Supervised study
- f. Record keeping

IV. ORGANIZATIONAL NOMENCLATURE

Teacher - Student Ratio 1:25

Grade Levels for Which Program is Intended 9 - 12

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

- A. Performing Arts suite
- B. Computer terminal hook-ups for innovative reading skills programs
- C. Sharing of facilities with community school

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.)

N/A

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
LANGUAGE ARTS							
003	9	Classroom		810	7,290	25	225
808	9	Material Storage		45	405		
TOTAL					7,695		225

VIII. PROGRAM FURNITURE AND EQUIPMENT

A. Classroom (General)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
25		X	Student desk combo
1		X	File cabinet, four-drawer, legal, lateral, lockable
1		X	Table, 30" x 72"
1		X	Lectern
1		X	Stool
1	X		Marker board, 4' x 16', with map rails and flag holder
2	X		Tack Board, 4' x 4'
1	X		80" w x 60" h video format screen with black masking borders
4		X	Computers
2		X	Printers
1		X	Computer and printer for teacher
1		X	Pencil sharpener, electric
1	X		Clock

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X		Multimedia cabinet (refer to General Considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

B. Publications Classroom

No. of Items	Contractor Provided	District Provided (FF&E)	Description
25		X	Student desk combo
2		X	File cabinet, four-drawer, legal, lateral, lockable
1		X	Table, 30" x 72"
1		X	Lectern
1		X	Stool
1	X		Marker board, 4' x 16', with map rails and flag holder
2	X		Tack Board, 4' x 4'
1	X		80"w x 60"h video format screen with black masking borders
4		X	Computers
2		X	Printers
1		X	Computer and printer for teacher
1		X	Pencil sharpener, electric
1	X		Clock
1	X		Multimedia cabinet (refer to General Considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

C. Speech/Debate Classroom

No. of Items	Contractor Provided	District Provided (FF&E)	Description
25		X	Student desk combo
1		X	File cabinet, four-drawer, legal, lateral, lockable
2		X	Table, 20" x 72"
2		X	Lectern
1		X	Stool
1	X		Marker board, 4' x 16', with map rails and flag holder
2	X		Tack Board, 4' x 4'

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X		80" w x 60" h video format screen with black masking borders
4		X	Computers
2		X	Printers
1		X	Computer and printer for teacher
1		X	Pencil sharpener, electric
1	X		Clock
1	X		Multimedia cabinet (refer to General Considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

IX. SPECIAL CONSIDERATIONS – CONTRACTOR PROVIDED

Refer to **GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROL,**

- A. **Heating/Cooling/Ventilation** - As required to meet District Standards.
- B. **Acoustical** - As required to meet District Standards.
- C. **Floor** - As required to meet District Standards.
- D. **Walls** - As required to meet District Standards.
- E. **Ceiling** - As required to meet District Standards.
- F. **Lighting** - As required to meet District Standards.
- G. **Windows** - As required to meet District Standards.
- H. **Doors** – As required to meet District Standards.
- I. **Water/Plumbing Fixtures** - As required to meet District Standards.
- J. **Communications** - As required to meet District Standards
- K. **Electrical** - As required to meet District Standards.
- L. **Instruction Technology** - As required to meet District Standards.
- M. **Gas and Air** - As required to meet District Standards.

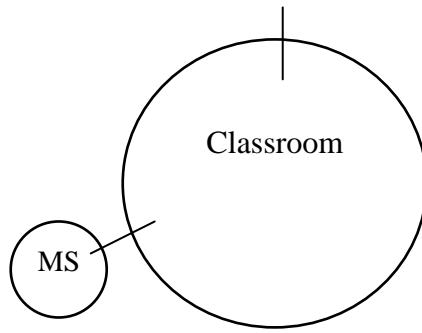
- N. **Safety** – As required to meet District Standards.
- O. **Fencing** – As required to meet District Standards.
- P. **Service Drives** – As required to meet District Standards.
- Q. **Parking** – As required to meet District Standards.
- R. **Built-ins**

In each instructional space

1. Provide base cabinet with lockable doors and adjustable shelves and upper cabinets with lockable doors and adjustable shelves.
 2. Provide built-in bookcase, 5'L x 15"D x 40"H with adjustable shelves.
 3. Provide computer counter to accommodate four (4) computers and two (2) printers (14'W x 30"D). The counter shall have grommets for wire management.
 4. Provide Multimedia cabinet and workstation - refer to General Considerations.
 5. Provide metal shelving (3 – 36"w x 18"d x 80"h) in storage.
 6. Additional built-ins
 - a. **Publications Classroom** - student mail box (30) approximately 4"h x 12"d x 12"w each in size.
 - c. **Speech Classroom** - extemp file work table shall be made in U-shape in the back of the classroom, 12'L x 29"H x 30"W. Shelving above the table for reference books. Work counter for props.
- S. **Other Considerations** - N/A

SPATIAL RELATIONSHIPS

Language Arts



MS – Material Storage

Not all spaces are shown

LIBRARY MEDIA CENTER

I. PROGRAM PHILOSOPHY

The school library media program supports the District's Mission, Fundamental Beliefs and Priorities for educational excellence. The number one priority, “To increase literacy for all students in reading, writing, listening, speaking, viewing and presenting”, is also the number one priority of each school's library media program.

The library media center is the school's center for information and inquiry, for students, faculty and the school community. The center provides services, instruction, materials, equipment and personnel to assist the faculty in developing an effective educational program. Primary goals of the library media program in Palm Beach County schools are imbedded in the concepts of *collaboration, access, literacy, inquiry and diversity*. Today's library media center is designed for flexible use and electronic adaptability, ready for new technologies as traditional methods are changing the delivery of instruction.

Effective instruction today requires audio, video, and electronic digital resources, including access to information available on the Internet. The media center is part of the globally district-electronic network so that information can be exchanged electronically within the school, the district, the state and the world. Provisions for students and staff to use this electronic network at multiple locations within the library media center and school center require full consideration when designing library media space.

II. PROGRAM GOALS CRITICAL IN THE DESIGN OF LIBRARY MEDIA CENTERS

A. Collaboration

Provide physical quarters of sufficient size and flexibility to allow large, class-size, small groups of students and individual students to work simultaneously in an aesthetically appealing atmosphere. Ample enough space in these areas shall create a traffic pattern around the areas not through each area.

Provide space for consultative services with teachers and staff.

Provide electronic capacity and data connections throughout the library media center for effective utilization of media materials and equipment by teachers and staff.

B. Access

Provide access to the media facilities, media staff, resources and equipment at the time of need for all, regardless of abilities or disabilities.

Provide support to new schools in the process of developing their collections.

C. Literacy

Provide a selection of media and the electronic capacity to utilize these resources in

varied print and non-print formats.

Provide guidance to students and faculty for effective selection and utilization of resources and equipment.

Provide current information about emerging technologies and how to incorporate these new developments into effective instructional practice.

Provide for continuous evaluation and updating of the resources available in the media collection to assure that the school's mission, goals and objectives are being met.

Address discrepancy between start up collection and existing collections.

D. Inquiry

Provide purposeful instruction for students in research and information literacy skills.

Provide opportunities for on-line searching and media-oriented experiences.

Provide opportunities for faculty to keep up-to-date and current with instructional techniques and with their specialized curricular area.

Provide current print, not to exceed an average collection age of twenty years, and non-print materials that support the curriculum.

E. Diversity

Provide guidance in the use of school, community, and global resources for the enrichment of individual experience.

Provide an environment encouraging multi-cultural and global experiences.

III. PROGRAM ACTIVITIES

The school library media center serves students, teachers, adults on the staff, administrators, and people in the local community. The center's space serves as a meeting place for students, staff, and community groups, requiring flexible access for activities during the school day, before or after school hours, and during the evening hours.

A. Activities for Students

1. Receiving instruction in large, class-size, small groups or individual with the capacity to accommodate simultaneous small and large group activities.
2. Using the instructional television equipment, projection equipment or computer technology.
3. Displaying creative promotional & literacy activities on bulletin boards, dry

eraser boards and in lockable showcases.

4. Participating and interacting in lectures, projected presentations, demonstrations, and other instructional activities.
5. Preparing and presenting multimedia presentations with projection and sound capability.
6. Browsing and leisure reading of books, periodicals, newspapers, computer programs and the Internet.
7. Engaging in inquiry with reference resources: books, CD-ROM and the Internet.
8. Engaging in individual study for career information, community resources, college information, and self-improvement.
9. Accessing informational for individual reports, resumes, letters, and other documents related to educational purposes.
10. Searching, identifying and requesting information or resources from other library or information locations through inter-library loan.

B. Activities for School Faculty and Staff

All ten capabilities listed above for students are also applicable for faculty and school staff. Other staff activities are:

1. Previewing and selecting materials for classroom use.
2. Preparing instructional materials.
3. Meeting with library media specialist and staff or other colleagues for collaboration on lesson plans, curriculum development and resource acquisition.
4. Utilizing the library media center's resources and other external resources via ITV, inter-library loan or the Internet for professional development.
5. Engaging in distance learning.
6. Using multimedia tools and projection units.

C. Activities for Library Media Center Specialist and Library Media Staff

1. Providing Technical Services: selection, acquisition, receiving orders and donations, cataloging and database maintenance, processing, binding, inventorying and other functions required to organize and maintain the collection of a library media center.

2. Functioning as school leader(s) for technology development by providing new resources and technologies in the library media center and by providing technical expertise as a member of school improvement and technology committees.
3. Providing instruction for students and faculty in inquiry methods, library research, information literacy and presentation of the results.
4. Assisting students, faculty and staff in selecting and effectively using instructional media in all formats.
5. Planning with teachers, administrators and paraprofessionals for curriculum development and use of instructional media for various school disciplines.
6. Maintaining accurate financial records and budgeting effective use of resources and time.
7. Supervising media staff, student aides and volunteers.
8. Coordinating media center functions with school administrators, faculty, community leaders, students and school staff, including custodial and secretarial personnel.
9. Booktalks and promotional activities

IV. ORGANIZATIONAL NOMENCLATURE

Grade Levels for Which Program is Intended 9 - 12

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

- A. New developments in educational programs, instructional methods, developing technologies and scheduling patterns, with the utilization of media resources which accompany these new developments, dictate flexibility for the library media program. Physical facilities must be flexible in order to meet the changing needs of the school program.
- B. Expanded individual and group use of new digital media and computer capabilities requires adequate facilities that are adaptable for varied viewing and listening activities.
- C. Available computer retrieval of information from network, on-line services and internet.
- D. The library media center should be integral to community schools. Access from outside needs to be considered in design. Maximize resources through community collaboration.
- E. Both students and faculty require publishing and production capabilities, including

video production, computer publishing, and multi-media/multi-image presentations.

- F. Multi-functional use of Instructional Television studio facilities includes previewing, editing, broadcasting, and Distance Learning activities for groups of students and school staff.
- G. Training requirements for both faculty and student(s) are increasing in all technical areas, and flexible space is required for these activities as well as electric and data connections.

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.)

- A. 830 NSF from Reading Room/Stacks to Auditorium for stage.
- B. 600 NSF from Reading Stacks to Technology Instruction Room.
- C. 680 NSF from Administrative Conference for Media Conference.
- D. 100 NSF from Reading Room/Stacks to Auditorium for Video Control Room.
- E. The studio shall be 1000 NSF and the control room shall be 750 NSF.
- F. Combine Library Media Specialist’s and Technical Processing into one space of 350 NSF. The remaining 605 NSF shall be folded into the Reading Room/Stacks.

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
MEDIA CENTER							
380	1	Reading Room/Stacks (to include Group Projects, Periodical Storage & Small Group Listening) (830 NSF to stage in auditorium, 600 NSF to Tech Instruction, 100 NSF to video control in auditorium)(605 NSF from Tech Processing)	10,050		9,125		
381	1	Technical Processing/Library Media Specialist’s office)(605 NSF to Reading/Stacks)	955		350		
382	1	Professional Library/Media Production/Copying Room)			1,930		
383	1	AV Storage/Maintenance and Repair/CCTV Storage			1,500		
306	1	Conference Room (from Administrative Conference)			680		
385	1	CCTV Studio - Production and Control (1000 NSF for Studio & 750 NSF for Control)			1,750		
390	1	Technology Instruction (from reading/stacks)			600		
819/820		Staff Restrooms (out of allotment)					
TOTAL					15,935		

VIII. PROGRAM FURNITURE AND EQUIPMENT

A. Reading Room/Stacks

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Circulation desk with book drop, desk draws (2), pencil draws (2), cabinets (2) and money draw. All draws and cabinets shall be lockable. Swivel stool, with height adjustable from 24" to 33".
		X	Stacks/Shelving in Reading Room (refer to VIII.B.)
	X		Necessary backing for stacks/shelving at 2' and 5' around the perimeter of the reading room
2		X	Automated time stamp
5		X	Step stool, kick-step type
2		X	Depressible book truck on springs
4		X	Book truck
1		X	Atlas stand, with shelves
1		X	Dictionary stand, portable
1		X	Globe, 24: with floor stand
1		X	Newspaper stand
2		X	Marker boards, portable, heavy-duty
4		X	Pencil sharpener, electric
1		X	Stapler, electric
1		X	Lounge furniture including sofas, chairs, tables to accommodate twenty people
40		X	Table, rectangular, to seat four people
2		X	Table, rectangular, to seat six people
150-175		X	Chair, 18"
1		X	Table, 31"H, handicapped height
2		X	Copier, coin-operated
25		X	Public computer, all with computer tables, chairs, printer, no carrels (2 shall be FACBC accessible)
1		X	Multimedia station, including stand alone PC with CD-ROM drive, DVD, color printer, SVHS output, TV monitor, on a single large wheel cart for mobility
1	X		Signage for various areas, stacks, and services in the reading room
1		X	Smart board and projection table
2		X	Television, 30", on AV carts
1		X	Closed circuit TV security system
1		X	Amplifier system with microphone plugs
1	X		Water cooler; no electric eye drinking fountain
2	X		Recessed, built-in display cabinet
3	X		Tack Board, 4' x 4'
1	X		Video Format Screen with black masking borders, electric, 8'w x 6h', minimum size, wall or ceiling mounted after stacks are placed
1	X	X	Library detection & security system (refer to special considerations)
1		X	Radio frequency inventory system
1		X	Concealed storage area for server and CD-ROM tower (periodical storage area)
1	X		Clock

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X		Multimedia cabinet with teacher station connectivity (refer to general considerations)
1	X	X	LCD Projector
	X		Built-ins (refer to special considerations)

B. Stack Area (folded into Reading Room) – District Provided

To accommodate 15,000 volumes. Utilize 72"H shelving on perimeter as much as possible. Free-standing shelving shall not exceed 42"H. All shelving shall be adjustable and have backing. Shelving shall be standardized so that inserts for periodical shelves can be moved. 1,600 linear ft. of 10"h shelving for regular books, 250 linear ft. of 15"H **heavy-duty** shelving for reference books and 200 linear ft. of 12"H shelving is required for kits. Shelving shall be accompanied by readily usable book ends. Light-weight, plastic coated wire shelving is not acceptable.

Provide linear footage for the high school collection at either 1' per ten books or 1.5 linear ft. per student.

Stack Area

- (1) Bookcases, 12", with backing and adjustable shelving for 25,000 volumes of varying height
- (2) Adjustable shelving with backing for 4,000 reference books and AV materials. These shelves need to be deeper than regular shelves, 15", and shall not exceed 80" in height
- (3) Adjustable shelving, 15", for 1,000 kits of varying heights for A/V materials made available to staff, students and community

C. Library Media Specialist and Technical Processing

No. of Items	Contractor Provided	District Provided (FF&E)	Description
3		X	Work station/chair
5		X	Guest chairs
2		X	Technical processing workstation, automated library-media management server and workstation, printer, chair, secretarial
1		X	Bookcase
1		X	Binder, automatic
4		X	File cabinet, four-drawer, legal, lateral, lockable
2		X	Book truck, double-faced
4		X	Chair
1-2		X	Worktables (30" x 72")
2		X	TV with VCR/DVD, for broadcast monitoring, on a movable AV cart
2			TV with VCR/DVD (2), for broadcast monitoring, on a movable AV cart

No. of Items	Contractor Provided	District Provided (FF&E)	Description
4		X	Computer workstation for automated circulation system
1		X	TV for closed circuit TV security system
1	X		Single sink with goose neck faucet (HW/CW)
2	X		Tack board, 4' x 4'
1	X		Clock
	X		Built-ins (refer to special considerations)

D. Media Production/Copy Room (folded into Professional Library)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Paper cutters, various sizes
3		X	Photocopier
1		X	Laminator
		X	Ellison or AccuCut machine (large and small letters)
		X	Spiral binder, plastic comb, with assorted supplies
2		X	Automatic test corrector
2		X	Rizzograph copier machine
1		X	Poster-making machine, computer compatible; locate adjacent to computer
3		X	Table, 72"
8		X	Chair
1		X	Combination compact disc/tape player, recorder and speakers, not portable
2		X	Public access workstation
2		X	Computer, printer, flat bed scanner, and color printer
1		X	35 mm camera & digital camera
1	X		Single sink with goose neck faucet (CW/HW)
3	X		Tack board, 4' x 4'
1	X		80"w x 60"h Video Format Screen with black masking borders
1	X		Clock
	X		Built-ins (refer to special considerations)

E. Professional Library (folded into Media Production/Copying)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
2		X	Lounge furniture - combination of chairs and tables to accommodate four people
1		X	Large worktable
8		X	Chair
4-6		X	Bookcases
1		X	Television/VCR connected to school CCTV network, on portable cart
1		X	Public access workstation, network access
2		X	Computer, printer, on-line access
1	X		TV/Multimedia cabinet (refer to General Considerations)
	X		Built-ins (refer to special considerations)

F. AV Storage (folded into CCTV Storage/Maintenance and Repair)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
3		X	27" data monitor/TV and AV input
1		X	DVD Player
3		X	VCR
3		X	54" carts with 8" wheels and locks
5		X	CD/cassette tape recorder
2		X	Overhead projector (traveling)
6		X	Overhead projector, with lamp changer, 4,000 lumens and cart
1		X	Slide projector
4		X	Portable sound system, with microphone and lectern
1		X	Opaque projector (optional)
4		X	Tripod screen, 60" x 60"
6		X	Camcorder, with battery pack and charger
6		X	Tripod for camcorder
4		X	Projection unit, digital/video
1		X	35 mm camera, (inexpensive instamatic)
4		X	Digital camera with disk storage
1		X	Transparency maker
4		X	3-shelf book cart
4		X	Smart Board
2		X	Color printer
1		X	Typewriter
1		X	Laptop computer with presentation stand
4		X	Presenter to attach computer to TV
2		X	TV/VCR combo for learning centers
2		X	Computer & Printer for ITSA
1		X	Desk for ITSA
1-2		X	Work table/desk for several computers for ITSA
	X		Built-ins (refer to special considerations)

G. Closed-Circuit TV, Production and Control

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Character Generator
3		X	Camera
3		X	Studio Kit
2		X	Teleprompter
1		X	DVD Player
1		X	Pro Audio Mixer
1		X	Microphone
2		X	Source Input
1		X	Boom Microphone Stand
3		X	Wired Lav Mics
2		X	Tripod, Dolly, Cam Head, Adapters
4		X	Monitor
1		X	Monitor/Receiver
1		X	Applied Magic Editing Package

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Intercom System
1		X	CD/Cassette Player
2		X	Powered Audio Monitor
1		X	Cables
1		X	Headphone
1		X	Video Mixer
2		X	DV Decker
1		X	Agile Modulator
1		X	Switcher
1	X		Double Scrim Curtain Tract and curtain (refer to special considerations)
1	X		Clock (in control room)
	X		Built-ins (refer to special considerations)
	X		Pipe Rail grid and lights for studio (refer to SDPBC ITV Dept for specifications)

H. Group Project (folded into Reading/Stacks)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
30		X	Computer (2 shall be FACBC accessible)
4		X	Printer
30		X	Chairs
1	X		80" w x 60" h video format screen with black masking borders
1	X		Multimedia cabinet with teacher station connectivity (refer to General Considerations)
1	X	X	LCD projector

I. Technical Instruction Room

No. of Items	Contractor Provided	District Provided (FF&E)	Description
4		X	Computers
1		X	Printer
		X	Camera(s)
1		X	Table
4		X	Chairs
1		X	Editing equipment
1		X	Production of presentation
2	X		Marker Board, 4' x 8', with map rails and flag holder.
1	X		Tack Board, 4' x 4'
1	X		80" w x 60" h Video Format Screen with black masking borders
1		X	Pencil sharpener, electric
2	X		Teacher storage cabinet, 36"W x 30"D x 72"H, with adjustable shelving
1	X		Clock
1	X		TV/Multimedia cabinet (refer to General Considerations)
1	X	X	LCD Projector

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

J. Conference Room

No. of Items	Contractor Provided	District Provided (FF&E)	Description
2		X	Conference table
14-16		X	Conference chairs
1	X		Under counter refrigerator
1	X		Marker Board, 4' x 8' with tack strip
1	X		80" w x 60" h video format screen with black masking borders
1	X		Clock
1	X	X	LCD Projector
1	X		Multimedia cabinet (refer to general considerations)
1	X		Teacher Station connectivity
	X		Built-ins (refer to special considerations)

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

Refer to **GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROL.**

- A. **Heating/Cooling/Ventilation** - As required to meet District Standards.
- B. **Acoustical** - As required to meet District Standards. Control Room and Studio shall be soundproof
- C. **Floor** - As required to meet District Standards.
- D. **Walls** - As required to meet District Standards. **A cyclorama (curved wall) shall be provided in one corner of the CCTV studio. There shall be no visible lines and the wall shall be smooth and painted chroma key blue or green.** The cyclorama wall shall be opposite of the control room.
- E. **Ceiling** - As required to meet District Standards. Install double curtain track and curtains (no white) around one-half of production studio, opposite control room, ceiling mounted, at least 14" from walls. The ceiling in the studio shall be a minimum of 14' (12' AFF to bottom of pipe rail grid/lights).
- F. **Lighting** - As required to meet District Standards. Color-balanced fluorescent lighting with capability of separate switching of rows and lights evenly distributed to all areas of the reading room. Area shall have a master control switch with separate switches in each area including studio and control room. Dimmer switches in Reading/Stacks area for presentations. Lights above outside doors to conference rooms, and TV production room to alert visitors that rooms are "in use". Row lighting

for studio ceiling. Mounted racked theatrical lighting with dimming control of individual fixtures for studio ceiling with adequate ceiling height for ceiling mounted lights. Provide task lighting above counter in control room.

- G. Windows** - As required to meet District Standards. Provide observation windows from library media specialist's office to reading room and circulation desk. Provide windows, where necessary, for supervision; windows shall be low enough for visibility when seated. Provide **angled window** (refer to Design Criteria) to minimize reflection between CCTV control room and production studio; window in control room shall be no less than 34" high above the floor and no less than 36" wide. No windows in storage room.
- H. Doors** - As required to meet District Standards. Provide a half glass door from CCTV control room to production studio and a solid door from reading room. Doors shall be installed to allow physical access from the control room to all rooms in the CCTV suite. Provide double, exterior doors for loading purposes. Interior doors shall be half glass, where appropriate.
- I. Water/Plumbing Fixtures** – As required to meet District Standards.
- J. Communications**
1. Intercom from central administration to all areas except CCTV studio. Optional block-out for intercom in reading/stacks room.
 2. Intercom to CCTV control room and reading room have a lock-out feature with emergency override.
 3. Telephone jacks at the circulation desk, in library media specialist's offices, technical processing room, TV control room, professional library media production room, and conference room(s). CCTV room shall have phone; provide network wiring for intra and inter network communications.
 4. Independent low-power sound system located in reading room.
 5. Voice data, network communication and ITV reception in the following areas: circulation desk, director's office, professional library, AV storage, CCTV control room, media production, and throughout the reading room where computer stations will be located (perimeter and columns).
 6. Voice data and network lines require built-in surge protection.
 7. ITV broadcast capability from technical processing room, reading room, CCTV control room, cafeteria, auditorium(s), principal's office, main sporting field, courtyards, and gym. The theater connection shall be four wires – two audio and two video. Install ITV outlets at each end of gym floor (non-seating areas) with an origination outlet at one end.
 8. Provide physical and intellectual access to information in native language.
- K. Electrical** - As required to meet District Standards. **Do not** locate wall outlets behind

or above stacks. Locate necessary data and electrical outlets along columns for computers. Provide wiring and outlets for 30 computer stations in group projects (folded into reading room) and for automated library catalogue throughout media center where specified. Provide a strip outlet above work counter in technical processing, media production laboratory, and CCTV control room. An additional "on/off" switch for the studio lights shall be installed in the control room. Install two independent circuits with three double electrical outlets on each circuit in the control room and studio. ITV outlets shall be available on at least two opposing walls of the main studio. Provide wiring for library book. No electrical outlets on cyclorama wall.

- L. Instructional Technology** – As required to meet District Standards. Provide electrical and data in the Reading Room/Stacks near the projection screen for multimedia equipment.
- M. Gas and Air** - As required to meet District Standards.
- N. Safety** – As required to meet District Standards.
- O. Fencing** - As required to meet District Standards.
- P. Service Drives** – As required to meet District Standards.
- Q. Parking** - As required to meet District Standards. Provide parking near library media center for after hours community use.
- R. Built-ins**
 - 1. Library Media Specialist's/Technical Processing**
 - a. Provide base and upper cabinets with doors along entire length of one long wall, with stainless steel sink. Cabinets shall be lockable.
 - b. Provide work counter along one wall with cabinets and drawers below. Drawers shall vary in depth: 6", 9", 12" with drawer stops. Cabinets shall be lockable.
 - c. Shelving adjustable with backing for books, compact discs, videos, oversized books, varying in depth from 10" - 15" for the need of processing material.
 - d. Provide one wall of base cabinets with open shelving above, one section designed for computer workstations with electrical outlets.
 - 2. Professional Library (folded into Media Production/Copying)**
 - a. Provide base cabinet on one wall with upper cabinets with doors and adjustable shelves, lockable.
 - b. Provide counter for computers and printers with grommets for wire

management.

3. AV Storage and Repair (folded into CCTV Storage)

- a. Provide one wall of counter space with lockable front disabled accessible cabinets with adjustable shelves above and below, and stainless steel sink with laboratory-type faucet.
- b. Provide pegboard, approximately, 6' x 12', for storage of cords, headsets, etc.
- c. Provide adjustable shelving for videos, DVDs, compact discs, laser discs along perimeter and center area of the storage room..

4. Periodical Storage (folded into Reading/Stacks)

- a. Provide standard library shelving with backing, adjustable.

5. Closed-Circuit TV (Production and Control)

- a. Provide double scrim curtain tract around one-half of production studio, opposite control room, ceiling mounted, at least 14" from walls.
- b. Provide pipe rail grid for production studio lighting; room lighting shall also be included.

c. CCTV Control Room

- (1) Provide counter to accommodate 2-4 students with draw pedestal, 26"H, on wall, facing production studio, with plug molding at 28" above finished floor. No cabinets shall be installed in the control room that will impede comfortable seating at the control panel. If space is limited, it is preferable to have no cabinets at all in the control room.
 - (2) Opposite wall, provide open base cabinets with one adjustable shelf, work surface counter top and open shelving above.
 - (3) Provide pegboard, on full wall, opposite door.
 - (4) Provide and install three PVC conduit openings, 4" in diameter, at floor level, between production studio and control room to allow pass through for cables.
 - (5) Provide shelves above counter for video/cd storage.
 - (6) Provide racks for equipment.
- d. Cabinet for hanging costumes, lockable, in storage area, approximately 30

lineal feet, back drops.

6. Media Production and Copy Room

- a. Provide counter-height working area along one wall with open shelves above and below with doors, lockable. One area work station with knee hole. Counter shall contain sink with laboratory-type faucet. Provide electrical power strips above the counter.
- b. Provide base cabinets with drawers along one wall. Some drawers shall be 36" w for posters, etc.; drawer stops on all drawers.
- c. Provide island work area with open shelving to store large tag board, construction paper, posters, etc. Electrical and data outlets shall be placed on the counter top edge, not at baseboard.

7. Group Projects -

- a. Provide computer counters for 30 computers (2 shall be FACBC accessible).

8. Reading Rooms/Stacks -

- a. Provide Multimedia cabinet - refer to General Considerations.

9. Conference Room -

- a. Provide 8' of base cabinet with sink, lockable doors and adjustable shelving, 34"H, along short wall of room, with upper cabinets with lockable doors and adjustable shelving, 12" clear inside depth.

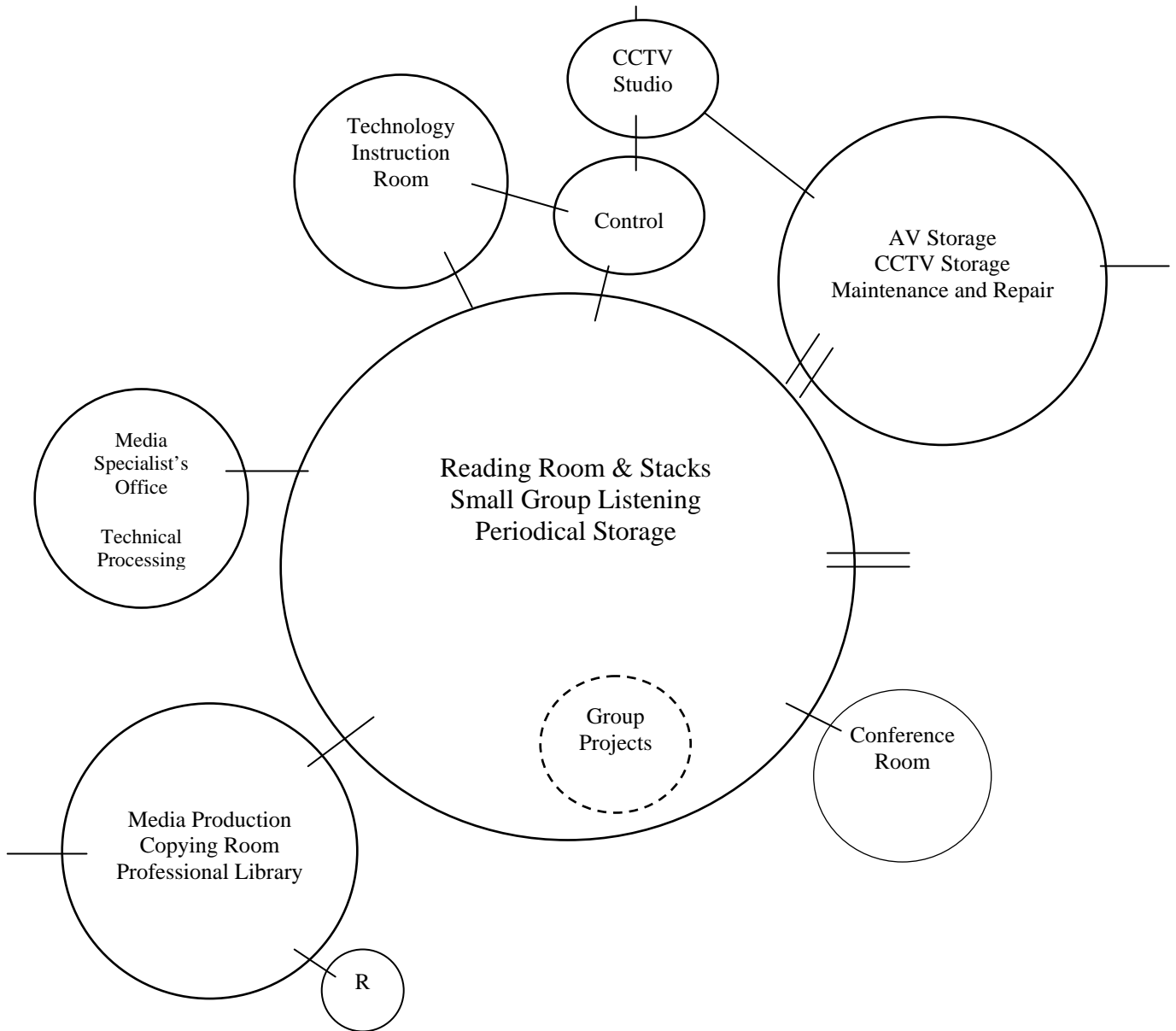
S. Other Considerations

1. Design CCTV production studio and control room so noise will not transmit from lavatory facilities, common halls, placement of HVAC or plumbing pipes. Air handlers should not be located in the vicinity of the studio to avoid excess ambient noise and, if the studio is on a second floor, vibration from a handler located under the studio or nearby will result in a "jiggling" motion on the cameras. No PA's shall be installed on control room or studio walls.
2. An independent low power sound system shall be provided for the reading room. The amplifier shall be placed in the vicinity of the circulation desk with speakers located throughout for even sound distribution.
3. ITV head-in amplifier shall be located no further than 500' from base of ITV tower.
4. Volume control on PA speakers in Reading Room.

5. Circulation desk shall be located near entrance with visibility to entire reading room.
6. Walking area in CCTV Control Room shall be at least 5' wide from wall to counter.
7. **Architect shall contact TEN to determine the design and equipment for CCTV studio.**
8. Provide electric, data and phone in CCTV storage for ITSA.
9. Adjacent to library media center entrance, provide built-in display case with tackable backboard and controlled light, lockable storage base, safety glass.

SPATIAL RELATIONSHIPS

Library Media Center



R = Restroom, Staff

MATHEMATICS

I. PROGRAM PHILOSOPHY

Mathematics is man's attempt to quantify his environment. The language of mathematics provides a medium to translate the physical world into a system to facilitate recording, manipulation and generalization. As the world progresses rapidly in the technological areas, it becomes increasingly important for a person to master the highest level of mathematics possible.

II. PROGRAM GOALS

Each student will have an opportunity for:

- A. A basic foundation of mathematics
- B. An awareness of changing mathematical techniques
- C. A desire for further mathematical studies
- D. A meaningful and logical study of mathematics
- E. A challenge of mathematical creativity commensurate with ability
- F. A desire for mathematical optimum development and self-evaluation
- G. A meaningful relationship between the pure mathematics and the application of mathematics through the changing technological field.

III. PROGRAM ACTIVITIES

A. Curriculum

The following courses offer a spectrum of mathematical knowledge from consumer arithmetic skills to abstract concepts developed in calculus. The purpose of these courses is to provide maximum opportunities for students with varying abilities and goals.

1. Explorations I
2. Consumer Mathematics
3. AP Statistics
4. Algebra I and II (Regular and Honors)
5. Informal Geometry
6. Geometry
7. Intensive Mathematics
8. Integrated Mathematics
9. Liberal Arts Mathematics
10. Probability and Statistics
11. Trigonometry
12. Analytic Geometry
13. Mathematical Analysis
14. Mathematical Studies
15. Calculus
16. AP Calculus
17. Business Mathematics
18. Applied Mathematics I, II

B. Teacher Activities

1. Utilize lecture/class discussion
2. Use audio-visual aids such as ITV, video cassettes, and overhead calculators
3. Demonstrate on marker board, overhead projector and with computer simulation
4. Teach, test, and remediate individuals, small groups and large groups
5. Lead group activities
6. Plan in teams and individually
7. Answer individual student questions
8. Prepare students local, state and national mathematics competitions
9. Confer with individual students
10. Plan bulletin boards and interest centers
11. Make recommendations as to selection of materials and equipment
12. Assist with assembly programs
13. Sponsor enrichment programs
14. Help to plan and to lead field trips
15. Participate in teacher, parent and student conferences
16. Use manipulatives in the instructional process
17. Coordinate student use of manipulatives to facilitate the learning process
18. Provide for co-operative team learning

C. Student Activities

1. Work and study independently
2. Study in groups of two or more
3. Complete small group assignments
4. Complete large group assignments
5. View ITV, video cassettes, overhead calculators and computer simulators in groups and individually
6. Complete assignments on marker board and computer
7. Complete homework assignments
8. Utilize computer assisted instruction
9. Work in a computer lab setting a minimum of one day per week

IV. ORGANIZATIONAL NOMENCLATURE

Teacher - Student Ratio 1:25

Grade Levels for Which Program is Intended 9 - 12

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

- A. Area may be used for night classes and community school activities.
- B. The architect shall study the shape of typical classes to provide for efficient operation and communication utilizing various electronic media, as well as traditional teacher/student communications utilizing marker board and wall-mounted illustrations. The spaces must also provide flexibility for large and small group instruction as well as the capability for individualized. Electrical outlets shall accommodate use of computers as instructional tools.

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.)

N/A

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
MATHEMATICS							
003	8	Classroom		810	6,480	25	200
808	8	Material Storage		45	360		
TOTAL					6,840		200

VIII. PROGRAM FURNITURE AND EQUIPMENT

A. Classrooms

No. of Items	Contractor Provided	District Provided (FF&E)	Description
25		X	Student desk combo
1		X	File cabinet, four-drawer, legal, lateral, lockable
1		X	Table, 30" x 72"
1		X	Lectern
1		X	Stool
1	X		Math, Cartesian graph, permanent marker board or roll-up type and circle, similar to map set-ups. If none available, an extra board with a permanent Cartesian graph and circle, 4' x 4'
1	X		Marker board, 4' x 16', with map rails and flag holder
2	X		Tack Board, 4' x 4'
1	X		80"w x 60"h Video Format Screen with black masking borders
4		X	Computers
2		X	Printers
1		X	Computer and printer for teacher
1		X	Pencil sharpener, electric
1	X		Clock
1	X		Multimedia cabinet (refer to General Considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

IX. SPECIAL CONSIDERATIONS – CONTRACTOR PROVIDED

Refer to **GENERAL CONSIDERATIONS, GENERAL SECURITY**

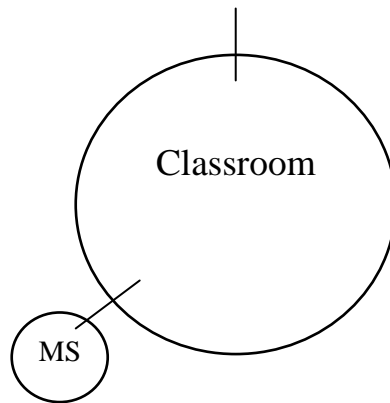
CONSIDERATIONS AND TRAFFIC CONTROL,

- A. **Heating/Cooling/Ventilation** - As required to meet District Standards.
- B. **Acoustical** - As required to meet District Standards.
- C. **Floor** - As required to meet District Standards.
- D. **Walls** - As required to meet District Standards.
- E. **Ceiling** - As required to meet District Standards.
- F. **Lighting** - As required to meet District Standards.
- G. **Windows** - As required to meet District Standards.
- H. **Doors** – As required to meet District Standards.
- I. **Water/Plumbing Fixtures** - As required to meet District Standards.
- J. **Communications** - As required to meet District Standards.
- K. **Electrical** - As required to meet District Standards
- L. **Instruction Technology** - As required to meet District Standards.
- M. **Gas and Air** - As required to meet District Standards.
- N. **Safety** – As required to meet District Standards.
- O. **Fencing** – As required to meet District Standards.
- P. **Service Drives** – As required to meet District Standards.
- Q. **Parking** – As required to meet District Standards.
- R. **Built-ins**
 - 1. Provide base cabinet with lockable doors and adjustable shelves and upper cabinets with lockable doors and adjustable shelves.
 - 2. Provide built-in bookcase, 5'L x 15"D x 40"H with adjustable shelves.
 - 3. Provide computer counter to accommodate four (4) computers and two (2) printers (14'W x 30"D). The counter shall have grommets for wire management.
 - 4. Provide Multimedia cabinet and workstation - refer to General Considerations.
 - 5. Provide metal shelving (3 – 36"w x 18"d x 80"h) in storage.

S. **Other Considerations** - N/A

SPATIAL RELATIONSHIPS

Mathematics



MS – Material Storage

Not all spaces are shown

MUSIC

I. PROGRAM PHILOSOPHY

The purpose of the Music Education program is to develop in students the sensitivities, feelings, understandings, cultural values, enjoyment and skills necessary for them to have an aesthetic response to utilize and enjoy music as part of everything they do throughout life. The development of creativity can be greatly enhanced through music education.

The high school music program must offer those experiences which enable a student to listen to, write and perform music. Only through these three experiences can objectives of music education be achieved.

II. PROGRAM GOALS

Instructional Programs - The high schools shall have a music curriculum which includes experiences in singing, playing, composing, arranging, studying general music (literature, history) and performing in the student's choice of media.

III. PROGRAM ACTIVITIES

A. General Music

1. Exploratory courses in vocal, electronic, compositional, history and literature, and social instruments: electronic pianos, baritone ukes, guitar, melodicas, auto harps and percussion instruments.
2. Music history/theory

B. Vocal Classes

1. Mixed chorus
2. Intermediate mixed chorus
3. Vocal solo and ensemble
4. Advanced chorus

C. Instrumental Classes

1. Beginning band instrument
2. Intermediate band
3. Advanced band
4. Beginning orchestra
5. Intermediate orchestra
6. Advanced orchestra

IV. ORGANIZATIONAL NOMENCLATURETeacher - Student Ratio: variesGrades Levels for Which Program is Intended 9 - 12**V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES**

Green Room/Recording room with facilities to tape and play back vocal, band and orchestra rehearsals and performances.

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F)

A. Combined three practice rooms into two practice room for vocal.

B. 225 NSF from recording room to green room in auditorium.

C. Combine two (2) Resource Rooms and material storage to create piano/keyboard.

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
MUSIC							
075	1	Vocal Music Classroom			1,596	28	28
830	1	Ensemble Room			300		
831	2	Practice Room (from (3) practice rooms)		105	210		
806	1	Reference Room/Material Storage			200		
833	1	Robe Storage			150		
852	1	Piano Keyboard (from (2) Resource Room)			780		
315	1	Teacher Planning			100		
		Subtotal			3,336		
076	1	Band Classroom			2,000	50	50
830	1	Ensemble Room			300		
831	3	Practice Room		70	210		
806	1	Reference Room/Material Storage			200		
832	1	Instrument Storage			600		
834	1	Uniform Storage			300		
835	1	Studio			180		
	1	Recording Room (to Green Room in Auditorium)					
082	1	Instrument Repair			110		
315	1	Teacher Planning			100		
		Subtotal			4,000		
		TOTAL			7,336		78

VIII. PROGRAM FURNITURE AND EQUIPMENT

The following is a suggested Musical list with concentration on design considerations for instrument storage area. This list is a guideline and not a required list.

A. Band

No. of Items	Contractor Provided	District Provided (FF&E)	Description
110		X	Music posture chair
125		X	Music stand, adjustable
1		X	Acoustical shell, folding (1 set for performance)
2		X	Storage truck or rack, for chair removal
1		X	Conductor system, podium
6		X	Table, 30" x 72"
1		X	Seated risers system, portable
1		X	Portable staging
1		X	Band folio cabinet with wheels (each slot 14 ½"w x 14 ½"d x 1 3/8"h)
1		X	Percussion cabinet on wheels
1		X	Marching band, lockable, folio cabinet
4		X	Portable rack to move music stands
1		X	Piano dolly
2	X	X	Sound system, portable: tape recorder, CD, stereo, stereo amplifier, speaker (4), recording microphone (2), cassette recorder (high quality) & microphone stand (2) (refer to special considerations)
1		X	Mobile Stereo Cabinet
1	X		Speakers built into classrooms that can be utilized with or without recording room equipment (refer to special considerations)
1		X	Marker board / tack board, portable
4		X	Computer
2		X	Printer
1		X	Computer and printer for teacher
2	X		Marker Board, 4' x 8', with map rails and flag holder.
2	X		Marker board, 4' x 8', with staff
3	X		Tack Board, 4' x 4'
1	X		80"w x 60"h Video Format Screen with black masking borders
1		X	Pencil sharpener, electric
1	X		Clock
1	X		Multimedia cabinet (refer to General Considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

B. Vocal

No. of Items	Contractor Provided	District Provided (FF&E)	Description
100		X	Music posture chair
1		X	Acoustical shell, folding (7 units)
2		X	Storage truck or rack, for chair removal
1		X	Conductor system, podium
2		X	Table, 30" x 72"
1		X	Choral risers, seven sections, portable
1		X	Seated choral risers (7 units)
1		X	Portable staging
1		X	Grand piano, 6'
2		X	Choral folio lockable, cabinets with caster base with 100 slots each 10 1/2" w x 12 1/2" d x 1 3/8" h
1		X	Piano dolly for grand piano
2		X	Sound system, portable: tape recorder, CD, stereo, stereo amplifier, speaker (4), recording microphone (2), cassette recorder (high quality) & microphone stand (2) (refer to special considerations)
1		X	CD recorder
1		X	Mobile Stereo Cabinet
1	X		Speakers built into classrooms that can be utilized with or without recording room equipment (refer to special considerations)
4		X	Computer
2		X	Printer
1		X	Computer and printer for teacher
2	X		Marker Board, 4' x 8', with map rails and flag holder.
2	X		Marker board, 4' x 8', with staff
3	X		Tack Board, 4' x 4'
1	X		80" w x 60" h Video Format Screen with black masking borders
1		X	Pencil sharpener, electric
1	X		Clock
1	X		Multimedia cabinet (refer to General Considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

C. Piano Keyboard/Resource Room

No. of Items	Contractor Provided	District Provided (FF&E)	Description
2		X	Table, 6'L
30		X	Chairs, stackable
30		X	Keyboard
2		X	Sound system, portable: tape recorder, CD, stereo, stereo amplifier, speaker (4), recording microphone (2), cassette recorder (high quality) & microphone stand (2) (refer to

No. of Items	Contractor Provided	District Provided (FF&E)	Description
			special considerations)
1		X	CD Recorder
1		X	Mobile Stereo cart
1	X		Speakers built into classrooms that can be utilized with or without recording room equipment (refer to special considerations)
4		X	Computer
2		X	Printer
1		X	Computer and printer for teacher
2	X		Marker Board, 4' x 8', with map rails and flag holder.
2	X		Marker board, 4' x 8', with staff
2	X		Tack Board, 4' x 4'
1	X		80"w x 60"h Video Format Screen with black masking borders
1		X	Pencil sharpener, electric
1	X		Teacher storage cabinet, 36"W x 30"D x 72"H, with adjustable shelving, lockable
1	X		Clock
1	X		Multimedia cabinet (refer to General Considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

D. Reference Room/Material Storage (Music Library)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
15		X	File cabinet, four-drawer, legal, lateral, lockable or music filing system
1		X	Paper cutter
1	X		Clock, battery
	X		Built-ins (refer to special considerations)

E. Ensemble Room & Practice Room

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Piano, upright, one for each room

F. Teacher Planning (per)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Filing cabinet, four drawer, legal, lateral & lockable
1		X	Teacher Desk and chair
1		X	Tack board, 3' x 4'

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

Refer to **GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROL.**

- A. Heating/Cooling/Ventilation** - As required to meet District Standards.
- B. Acoustical** - As required to meet District Standards. Provide optimum acoustics for rehearsal and teaching areas. Some considerations are as follows:
- Two main acoustical factors: optimum acoustical environment and optimum hearing conditions by director and every student.
 - Acoustical environment: the maximum background noise level is 25 decibels with the optimum somewhat lower.
 - Reverberation time to allow for the separation of successive sounds is a critical problem in designing rehearsal facilities. The optimum reverberation time for a large rehearsal room is 1.1 seconds. If the time falls below .8 seconds for the band area, or 1.0 seconds for choral area, the room becomes too dead for effective use. If the time is much greater than 1.1 seconds for band, or 1.2 seconds for chorus, then boom, echo, and over-loudness will result, causing severe distortion of sound and producing an impossible rehearsal situation. It shall be noted that the reverberation times for band and choral rehearsal rooms are different and shall not be planned in the same way.
 - Proper distribution of sound depends upon the uniform diffusion of all sounds throughout the room.
 - Frequency levels throughout the full spectrum of audible sound must be allowed to be diffused equally. A proper balancing of materials is essential to eliminate the distortion caused by lack of attention to this detail.
 - Expert advice from SDPBC Secondary Education Department shall be sought in designing a Music room.
 - Soft wall-finish materials shall be limited to locations higher than students can bump into or reach, i.e., a minimum of 6' above floor.
- C. Floor** – As required to meet District Standards. Vocal room and band room shall be flat and unobstructed. The following spaces shall have rubberized flooring - Band Room, Vocal Room, Keyboard Room, all practice rooms and all ensemble rooms.

- D. Walls** - As required to meet District Standards. All walls acoustically treated to prevent sound transfer to adjacent spaces used for instruction. Walls shall be constructed to roof deck. Walls and ceilings shall be acoustically treated to provide maximum acoustical effect in each classroom, ensemble room and Music practice room. Provide mirror on one wall in each practice room.
- E. Ceiling** - As required to meet District Standards. Acoustically treated for best musical sound in each classroom, ensemble room and Music practice room. The band room ceiling shall be 22' and the vocal room ceiling shall be 20'.
- F. Lighting** - As required to meet District Standards.
- G. Windows** – As required to meet District Standards. No outside windows. No window in or near entrance doors. Provide observation windows into classrooms and practice area. Observation windows from teacher planning to classroom areas. Windows in instructional area shall be acoustically treated to reduce sound transmission.
- H. Doors** – As required to meet District Standards. Doors must be secure against break-in to protect equipment. Doors and walls in instructional area shall be acoustically treated to reduce sound transmission. Provide double door with removable mullions from the rehearsal area to the outside shall be designed so that large instruments can be moved and groups of students can enter and exit quickly. Also provide double door with removable mullions from laboratories to the hallway to move equipment to Auditorium.
- I. Water/Plumbing Fixtures** - As required to meet District Standards. Provide water fountains in or near band and vocal rooms.
- J. Communications** - As required to meet District Standards.
- K. Electrical** - As required to meet District Standards. Provide master switch for the instrumental and choral areas inside and near the entrance. Each side wall and back wall shall have a minimum of three outlets. The front wall shall have at least four placed at convenient intervals. In addition, (2) microphone jacks shall be placed in the ceiling so microphones could hang; they shall be placed in front of the room about 10' from the front wall and spaced about 12' - 15' apart. The contractor shall provide surround system wiring, speakers, base, subwoofer, etc. for laboratory. The District shall provide the musical equipment, stereo, recorder, CD player, etc
- L. Instructional Technology** – As required to meet District Standards.
- M. Gas and Air** – As required to meet District Standards.
- N. Safety** – As required to meet District Standards.
- O. Fencing** - As required to meet District Standards.

P. Service Drives - As required to meet District Standards. Because of the heavy use of music facilities at night, and also because of the need to transport students and equipment by bus and truck, the following shall be considered:

1. Provide access to street.
2. Convenient, well-lighted access for a large bus.
3. Convenient, well-lighted service access to the loading doors.

Q. Parking - As required to meet District Standards.

R. Built-ins

1. Classrooms (Band & Vocal)

- a. Provide cubbies, 18" x 18" (60) for student textbook storage near entrance doors.
- b. Provide computer counter to accommodate four (4) computers and two (2) printers (14'W x 30"D). The counter shall have grommets for wire management.
- c. Provide Multimedia cabinet and workstation - refer to General Considerations.

2. Reference/Material Storage (Music Library)

- a. Provide base cabinet, lockable, approximately, 8', with sink and counter. Provide lockable, wall-hung cabinets above counter.
- b. Provide shelving, maximum amount, full height, 10'w.

3. Instrument Storage - Provide special built-in shelves maximum amount, full height, appropriate to size of each instrument case from flute to tuba and drum size. Provide base cabinets with sink, lockable doors and adjustable shelves; and upper cabinets with lockable doors and adjustable shelves.

- a. 2 sets of 27 ½" w x 19 ¼" d x 85 5/8" h to store 15 clarinets, flutes, piccolos or oboes
- b. 2 sets of 27 ½" w x 29 ½" d x 85 5/8" h to store 9 clarinets, flutes, piccolos or oboes and french horn, alto horn or snare drum.
- c. 3 sets of 27 ½" w x 29 ¼" d x 85 5/8" h to store 10 trumpets, cornets or alto saxophones.
- d. 3 sets of 27 ½" w x 39 ¼" d x 85 5/8" h to store 10 trombones, bassoons, bass clarinets, violins, violas, tenor saxophones or alto clarinets.

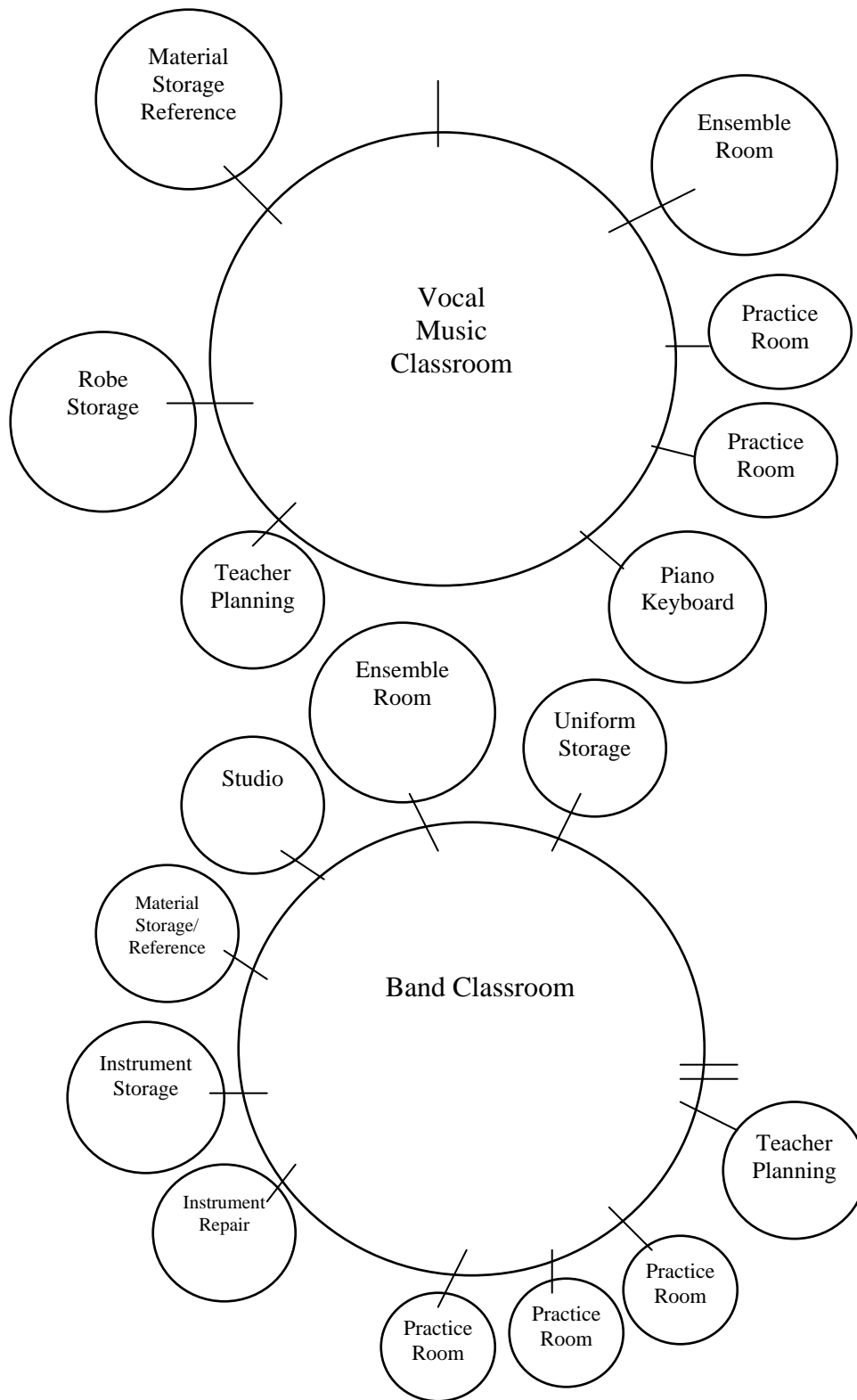
- e. 2 sets of 27 ½” w x 29 ¼”d x 85 5/8” h to store 1 string bass, contra bass clarinet or bass drum, or use for general storage.
 - f. 5 sets of 27 ½” w x 29 ¼”d x 85 5/8” h to store 3 french horns, alto horns or snare drums.
 - g. 2 sets of 27 ½” w x 39 ¼”d x 85 5/8” h to store 3 baritones, euphoniums or mellophones.
 - h. 2 sets of 48 ½” w x 29 ¼”d x 85 5/8” h to store 3 baritone saxophones, bass clarinets, bassoons, field drums or snare drums or for general storage.
 - i. 3 sets of 14 3/8” w x 29 ¼”d x 85 5/8” h to store 5 trumpets, cornets, alto saxophones.
 - j. 4 sets of 27 ½” w x 39 ¼”d x 85 5/8” h to store 2 bass drums, field drums, snare drums, or parade drums.
 - k. 4 sets of 48 ½” w x 29 ¼”d x 85 5/8” h to store 2 bass drums, field drums, snare drums, parade drums, tri-toms, quads, tubas or sousaphones (bell attached).
 - l. 1 set of 60 ½” w x 39 ¼”d x 85 5/8” h to store 1 timpani, chimes, small vibes and xylophones, marimbas and gongs. Adjust from 46” to 70”.
 - j. 1 set of 48” w x 48”d x 85 5/8” h to accommodate up to six 48” wide adjustable shelves or up to six 360-degree revolving shelves.
 - k. It is preferred that the instrument storage cabinets are located in the instrument storage room. If instrument storage cabinets are located in the classroom, they should have lockable grill doors to minimize the amount of lost cubic volume.
4. **Uniform Storage** - Provide double-tiered rods to hang uniforms with shelves above rods on all walls.
 5. **Robe Storage** – Provide single- tiered rods to hang robes with shelves above rods on all walls.
 6. **Other Built-ins** – Provide a full-length mirror in all practice rooms and ensemble rooms.
 7. **School Display/Exhibition** - Provide recessed display cabinet (6’W x 4’H) in hallway near music suite. Display cabinet should be 2’ above finished floor.
 8. **Instrument Repair** - Provide base cabinets with tub sink, lockable doors and adjustable shelves; and upper cabinets with lockable doors and adjustable shelves.

S. Other Considerations

1. Practice Field and Drill Field - Provide stabilized, level, grassy area the size of a football field, convenient to the building for use of daytime band drills. Night drills would require the use of the lighted football field. If practice field is not available, provide an area in the parking lot without bumpers to be used by the marching band.
2. Music building shall be connected to the other buildings of the campus by well-lighted covered walkways.
3. Campus planning shall minimize sound transmission from other areas into music areas.
4. Building to be designed so that transmission of sound is contained within the separate sections of the music department so as not to interfere with other music activities.
5. Restrooms and water fountains to be accessible to all students.
6. Hearing Conditions
 - a. Reverberation time to allow for the separation of successive sounds is a critical problem in designing rehearsal facilities. The optimum reverberation time for a large rehearsal room is 1.1 seconds. If the time falls below .8 seconds for the band area, or 1.0 seconds for the choral area, the room becomes too dead for effective use. If the time is much greater than 1.1 seconds for band or 1.2 seconds for chorus, the boom, echo, and over-loudness will result, causing severe distortion of sound and producing a difficult rehearsal situation. It shall be noted that the reverberation time for band and choral rehearsal rooms are different and shall not be planned in the same way.
 - b. Proper distribution of sound depends upon the uniform diffusion of all sounds throughout the room.
 - c. Frequency levels, throughout the full spectrum of audible sounds, must be allowed to be diffused equally. A proper balancing of materials is essential to eliminate the obvious distortion caused by lack of attention to this detail.
 - d. Expert advice shall be sought in designing a music room.
 - e. Soft wall finish materials shall be limited to locations higher than students can bump into or reach, i.e., a minimum of six feet above the floor.
 - f. Classrooms shall be in close proximity to their related areas.
7. Provide electric, data and phone in teacher planning.

SPATIAL RELATIONSHIPS

Music



PHYSICAL EDUCATION

I. PROGRAM PHILOSOPHY

Physical Education is an integral part of the total educational structure of the Palm Beach County School District. It provides significant contributions toward the total well-being of each child.

The overall aim of the curriculum for physical education is to offer progressive, sequential instruction which begins with appropriate basic skills and continues to its logical conclusion - physical activities of a lifetime nature.

We, as physical educators, believe that physical education shall provide each student with sufficient physical activity to maintain an optimal level of fitness and develop acceptable social, emotional and physical traits.

II. PROGRAM GOALS

- A. Make a major contribution to the personal fitness of each student including cardiorespiratory fitness, endurance, flexibility, agility, balance, muscular strength, speed, power and coordination.
- B. Develop in each student a positive attitude toward his/her personal involvement in physical activity.
- C. Help students understand the nature of rules, skills and strategies as they relate to physical education activities at the appropriate grade levels.
- D. Provide opportunities to help individual students develop a wholesome self-concept and an acceptable perception of others.
- E. Develop an interest and a desire to participate in lifelong recreational sports.
- F. Develop healthy attitudes concerning winning, losing and fair play.
- G. Develop the ability to identify options available in making personal decisions.

III. PROGRAM ACTIVITIES

A. Semester courses listed below. Schools select the courses they wish to offer.

1. Personal Fitness*
2. Fitness Lifestyle Design
3. Fitness Issues for Adolescence
4. Aerobics (3)
5. Weight Training (3)
6. Gymnastics
7. Swimming (3)
8. Tennis (2)

9. Golf (2)
10. Paddleball/Racquetball/Handball
11. Individual and Dual Sports (2)
12. Wrestling (2)
13. Track and Field
14. Basketball
15. Soccer
16. Softball
17. Volleyball (2)
18. Self Defense Activities
19. Recreational Activities
20. Outdoor Education
21. Care and Prevention of Athletic Injuries
22. Team Sports (2)
23. Dance Courses (15)
24. Adaptive Physical Education (6)
25. Health-I Life Management Skills*
26. Comprehensive Fitness
27. Racquet Ball (2)
28. Field Hockey
29. Lacrosse
30. Sports Officiating

* Required courses for graduation

B. Course Activities

1. Student Activities

- a. Dressing in physical education clothes and tennis shoes
- b. Reporting for roll call
- c. Participating in class exercises and activities
- d. Participating in class drills and master skills
- e. Participating in individual practice or assignments
- f. Taking fitness, skills, and written tests
- g. Listening to lectures, instructions and taking notes
- h. Watching demonstrations and other audio-visual instruction in the form of pictures, diagrams, charts, films, filmstrips and slides
- i. Going on field trips
- j. Reading and written work
- k. Participating in the scheduled class activities
- l. Taking a shower
- m. Officiating class activities

2. Teacher Activities

- a. Lecturing
- b. Leading exercises

- c. Demonstrating skills, methods and officiating
- d. Organizing squads and learning groups
- e. Supervising squads and groups
- f. Organizing teams and supervising team activities
- g. Organizing tournaments
- h. Instructing leaders and game officials
- i. Using marker board for instruction
- j. Showing audio-visuals
- k. Assembling, organizing and displaying bulletin board materials
- l. Working with test scores, grading and locker assignments
- m. Caring for and distributing equipment
- n. Supervising the use of facilities
- o. Purchasing equipment
- p. Checking attendance, dressing and participation
- q. Preparing written lesson plans, tests, and skill tests
- r. Organizing special services including towel services, clothing, locks, and lost and found
- s. Administrating first aid

3. Public Activities

- a. Public invited to events
- b. Hosting competitive events
- c. Hosting District, Regional, State and National events
- d. Community Events – i.e. S.S. games, NAIA Tennis, National Softball tournaments, recreational track meets, and Palm Beach County Sports Commission

IV. ORGANIZATIONAL NOMENCLATURE

Teacher - Student Ratio varies

Grade Levels for Which Program is Intended 9 - 12

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

- A. Design facility to comply with appropriate disabled accessibility rules.
- B. Adult and Community Education programs will use facilities after regular school hours and weekends. Equipment design and purchase shall recognize these uses. Design practice and planning fields with outdoor seating and lighting.
- C. Equip trophy cases with shatterproof glass. Trophy cases shall be located near cafeteria, gymnasium lobby and main office.
- D. Outdoor, PA system speakers shall be strategically located to cover all outdoor teaching areas.
- E. Investigate the use of artificial turf on fields where appropriate.

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.)

- A. 250 NSF from custodial to outside storage.
- B. 600 NSF from kitchen to stadium press box.
- C. Combine First Aid and Training Room into one larger room.
- D. Create an AD office (150 NSF) from PE Multipurpose.
- E. 800 NSF from Dining to create a larger Weight Room.

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
PHYSICAL EDUCATION							
090/091	2	Dressing Rooms		1,500	3,000		
092/093	2	Lockers		250	500		
094/095	2	Showers		250	500		
096/097	2	Drying		250	500		
098	1	PE Storage			1,125		
815/816	2	Restrooms		250	500		
315	2	Teacher Planning		250	500		
315	2	Teacher Planning - Advance P.E.		100	200		
301	1	AD Office (150 NSF from PE Multipurpose)			150		
099/100	4	Teacher Restrooms>Showers		66	264		
117	1	Weight Room (800 NSF from Dining)	1,000		1,800		
115	1	First Aid/Training Room			500		
110	1	Multipurpose Room (150 NSF to AD Office)	1,050		900		
118	1	Wrestling Room			1,680		
119	1	Gymnastics/Dance			1,050		
112	1	Gymnasium Floor			6,500	1	160
113	1	Gymnasium Seating			8,000		
120	1	Gymnasium Storage			375		
114	1	Laundry/Towel			250		
370	1	Gymnasium Lobby			1,250		
371	1	Concessions			200		
372	1	Ticket Booth			30		
822/823		Restrooms, public (from allotment)					
121	1	Stadium Press Box (from kitchen)			600		
098	1	Outdoor Storage Building (from custodial)			250		
TOTAL					30,624		160

VIII. PROGRAM FURNITURE AND EQUIPMENT**A. Teacher Planning (per)**

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Teacher desk, per instructor
1		X	Teacher chair, per instructor
1		X	File cabinet, four-drawer, legal, lateral, lockable, per instructor
1	X		Tack board, 4' x 4'
1		X	Pencil sharpener, electric
1		X	Computer & printer, 1 per instructor
1	X		First Aid kit, wall mounted, 1 per office
1		X	Stretcher, 1 per office
1	X		Clock

B. Teacher Planning Advanced P.E. (per)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Teacher desk, per instructor
1		X	Teacher chair, per instructor
1		X	File cabinet, four-drawer, legal, lateral, lockable, per instructor
1	X		Tack board, 4' x 4'
1		X	Pencil sharpener, electric
1		X	Computer & printer, 1 per instructor
1	X		First Aid kit, wall mounted, 1 per office
1		X	Stretcher, 1 per office
1	X		Clock

C. Multipurpose

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	File cabinet, four-drawer, legal, lateral, lockable,
1		X	Table, 30"W x 6'L
4		X	Chair, stackable
30		X	Student desk
1		X	Lectern
4		X	Computer
2		X	Printer
1		X	Computer and printer for teacher
1	X		Marker Board, 4' x 16', with map rails and flag holder.
2	X		Tack Board, 4' x 4'
1	X		80"w x 60"h Video Format Screen with black masking borders
1		X	Pencil sharpener, electric
2	X		Teacher storage cabinet, 36"W x 30"D x 72"H, with adjustable shelving

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X		Clock
1	X		Multimedia cabinet (refer to general considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

D. Weight Room (12 individual stations)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
8		X	Dumbbell stand, rack with a pair of 2 lb. and 5 lb. dumbbells. Continue in 5 lb. increments to 35 lbs. (8) pr., free-standing
12		X	Olympic weight set and bench, 400 lb. set, free-standing
12		X	Weight rack, free-standing or attached to floor
4		X	Curling bar and seat, fixed
1		X	File cabinet, four-drawer, legal, lateral, lockable,
4		X	Squat rack and benches
2	X		Tack Board, 4' x 4'
1	X		80" w x 60" h Video Format Screen with black masking borders
1	X		Marker board, 4' x 8'
1	X		Clock
1	X		Sound system
	X		Built-ins (refer to special considerations)

*All equipment shall operate mechanically.

E. First Aid/Training Room (Equal access for boys and girls); do not locate near dressing rooms.

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X		Whirlpool, approximately, 26"D x 22"W x 4'L, permanently fixed to floor with seat
1	X		Ankle whirlpool with chair
1	X		Refrigerator, 20 C.F. with adjustable shelves and ice maker
2		X	Thermo-pad, hot
3		X	Padded table, approximately, 30"W x 30"H x 78"L
1	X		Ice machine, make crushed ice, approximately, 400 lb. capacity
1	X		Tack Board, 4' x 4'
1	X		Clock
	X		Built-ins (refer to special considerations)

F. Wrestling Room

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Wrestling mat, 40' x 40', divided into three or more sections with mat transporters
1	X		Padded walls, 5' in height (located on 3 walls)
1	X		Tack Board, 4' x 4'
1	X		80" w x 60" h Video Format Screen with black masking borders
1	X		Clock
	X		Built-ins (refer to special considerations)

G. Dance

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X		Sound system
1	X		Tack Board, 4' x 4'
1	X		80" w x 60" h Video Format Screen with black masking borders
1	X		Clock
1	X		Multimedia cabinet (refer to general considerations)
1		X	DVD/VCR Combo
1		X	Document camera
1	X	X	Sound field enhancement
1	X	X	LCD Projector
1	X		Built-ins (refer to special considerations)

H. Gymnasium

No. of Items	Contractor Provided	District Provided (FF&E)	Description
2	X		Glass lexon basketball backboard (2), with break-away rims, forward swing, main court
4	X		Fiberglass basketball backboard (4), forward swing, side, cross court
6	X		Each backboard (6) is to be raised and lowered electrically and shall retract away from bleachers.
4	X		Regulation volleyball standards sleeves in floor – with maximum separation of courts, with net (2) for game use in athletic competition with official stand (2)
8		X	Portable volleyball standards
	X		Bleachers, electric
4	X		Chin-up bar, adjustable, wall-mounted (staff to locate with architect/ contractor)
2		X	Portable Video Format Screen with black masking borders
2	X		Tack Board, 4' x 4'
1	X		Clock
1	X		Floor cover for gym floor if school is a shelter
	X		Built-ins (refer to special considerations)

I. Laundry/Towel (per)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X		Clothes dryer, commercial
1	X		Clothes washer, commercial
1	X		Utility tub
	X		Built-ins (refer to special considerations)

J. Ticket Booth in Gymnasium Lobby and Stadium (per)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Stool, 30"
1	X		Clock

K. Concession Stand in Gymnasium Lobby and Stadium

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X		Refrigerator, approximately, 18 cubic feet
1	X		Ice machine, small cubes, 400 lb capacity
1		X	Portable Grill (at stadium)
1	X		Clock
	X		Built-ins (refer to special considerations)

L. Locker Room

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X		Tack board, 4' x 6', visible by all
1	X		Marker board, 4' x 8', visible by all
1	X		Clock
	X		Built-ins (refer to special considerations)

M. AD Office

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Desk/workstation with chair
2		X	Side arm chair
1		X	File Cabinet, four drawer, legal, lateral & lockable
1		X	Computer & Printer
1		X	Bookcase
1	X		Tack board, 3' x 4'
1	X		PA/intercom system control for the Gym

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

Refer to GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROL.

- A. **Heating/Cooling/Ventilation** - As required to meet District Standards.
- B. **Acoustical** - As required to meet District Standards.
- C. **Floor** - As required to meet District Standards. Gym floor to be marked with regulation basketball lines to recognize school colors. Volleyball court lines painted white, 2" lines. The center court line for volleyball and basketball shall be a 4"W white line. The floor and base in the weight room shall be special rubberized flooring for gym equipment.
- D. **Walls** - As required to meet District Standards. Mirrored wall in dance space and weight room. Privacy partition in training room to separate whirlpool from rest of room.
- E. **Ceiling** - As required to meet District Standards.
- F. **Lighting** - As required to meet District Standards. Master switch to control lights for locker and shower areas located in teacher's office. Control switch for gym lights located near an exit. Spot lighting for special events. Two light fixtures with protective covers for outdoor storage building. Provide lights at stadium.
- G. **Windows** - As required to meet District Standards. Provide a one-way window between each teacher planning office and the locker/dressing areas. Provide ticket window in ticket booth. Provide a roll-up window at concession stand.
- H. **Doors** - Provide ticket window in ticket booth. Double-wide doors with removable mullion for gymnasium, all storage areas, storage building, weight room and wrestling room. Extra wide doors for laundry rooms. One double-wide door to gym shall be located directly across from the wrestling room to provide for transporting of wrestling mats. Provide dutch door at laundry room and teacher planning.
- I. **Water/Plumbing Fixtures** – As required to meet District Standards. Provide water fountains at fields and courts. Provide water fountains outside of wrestling room.
- J. **Communications** - As required to meet District Standards. Wall clock (2) located in gymnasium and locker rooms. Provide P.A. system speakers on exterior wall of Physical Education Building; inside Gymnasium with microphone jacks; press box at stadium; baseball field and softball field.
- K. **Electrical** - As required to meet District Standards.
- L. **Instructional Technology** - As required to meet District Standards.

- M. Gas and Air** - As required to meet District Standards.
- N. Safety** - As required to meet District Standards.
- O. Fencing** - As required to meet District Standards.
- P. Service Drives** - As required to meet District Standards. Locate for delivery of equipment and loading and unloading of teams.
- O. Parking** - As required to meet District Standards. Locate outdoor fields near parking to allow enough spaces for after school and weekend uses, including community school use.
- R. Built-ins**
1. **Laundry/Towel** - Provide counter space for sorting and folding towels, etc., approximately, 36"D x 34"H x 5'L. Provide storage cabinet each room, lockable with adjustable shelving, approximately, 3'H x 3'L x 24"D. Locate adjacent to machines. Provide wall-length shelving on two walls, 4' from floor, three rows each on wall; adjustable shelving, approximately, 24"D. Provide a row of hooks or pegs, approximately, 18" apart located under lower shelf of each side of room.
 2. **Concession Stand** – Provide counter space, locate at opening for serving, approximately, 42"H x 24"D x 10'L. Provide two rows of shelving under counter, approximately, 24"D x 10'L; adjustable shelves with a 2" lip; three rows of adjustable shelving on opposite wall from counter; begin 4' from floor, approximately, 24"D x 10'L with a 2" lip.
 3. **Teacher Planning** -: Provide shelf with closed ends for each teacher, approximately, 3'L x 18"D x 24" apart.
 4. **Multipurpose** - Provide material storage cabinet (2), lockable, approximately, 4'H x 6'W x 24"D with adjustable shelving. Use cabinets for storing Resusci Annies (CPR dummy), textbooks and etc. Provide multimedia cabinet and workstation – refer to General Considerations.
 5. **Physical Education Storage** – Provide shelving on three walls, each storage room, begin 3' from the floor, run length of wall, four rows each wall with adjustable shelving, approximately, 24"D with a 3" lip.
 6. **Gymnasium Storage** – Provide shelving on one wall, each storage room, begin 3' from floor, run length of wall, four rows of adjustable shelving, approximately, 24"D with a 3"lip.
 7. **First Aid/Training Room** – Provide base cabinet with double sink and lockable doors and adjustable shelves; and upper cabinets with lockable doors, adjustable shelves. Storage cabinet, lockable, with adjustable shelving, approximately, 4'H x 6'W x 24"D.

8. **Dance** - Provide cabinet for storage of sound equipment, lockable, approximately, 72"H x 24"D x 48"W. Provide 40' of stainless steel mirror on one wall, approximately, 6'H. Provide 40' of dance bar on opposite wall.
9. **Ticket Booth** – Provide built-in shelf, approximately, 12"-15"D to facilitate handling of tickets and money in ticket window. Provide a built-in, lockable, drawer for use with ticket sales.
10. **Outdoor Storage** - Provide shelving on one wall; three rows, length of wall, 24" between rows; shelf 24"D with a 3" lip; begin shelving 4' from floor; on opposite wall, 5' from floor, locate a 2" x 6" x 15' pegboard with 3/4" x 6" pegs inserted at a 60 degree angle at 2' intervals.
11. **Teacher Rest Room** - Provide locker (15), each area, (5) - P.E., (10) -Advanced P.E.; approximately, 12"W x 18"D x 72"H. Provide a stainless steel mirror, each area, approximately, 4' x 4'. Provide shower curtain/rod each area.
12. **Weight Room** - Provide mirror along on one wall. Provide storage cabinet recessed into the wall for supplies and equipment.
13. **Wrestling Room:** Provide mats, 5' up each wall. Above padded walls, provide pegboard (2), mounted, approximately, 7' from the floor for climbing. Provide a storage area, cabinets and air-contained room, for meet mats to be rolled up and stored.
14. **Gymnasium** – Provide and install gym divider, ceiling-mounted, electrically operated. Locate above center court marking. Provide collapsible bleachers, located on both side of gymnasium, electrically operated. Provide one separate set of bleachers located at end of gym opposite main entrance. Install floor plates for and regulation volleyball standards. Floor plates for the competition volleyball courts shall be located 3'6" outside of the court markings, directly in line with the center line (4"). Additional plates shall be installed for practice courts (length of main basket ball court) as space permits. Provide climbing rope (3), approximately, 24'L, fastened to ceiling girders, adjacent to bleachers on each wall. Install with pulley system and security lock. Combination basketball, volleyball and wrestling electric scoreboard (2), located at each end of gym. Safety wall mats installed where needed.
15. **Drying Area** - Provide towel hook (40)
16. **Locker Room Restroom** (2): Stainless steel mirror, each rest room, approximately, 4' x 8'. Do not locate over sinks.
17. **Locker Room:** (PEAK LOAD - 160): (960) lockers at each area (boy's and girl's) approximately **12"W x 12"H x 16"D** (small) in size with a combination lock for each locker. (160) lockers at each area (boy's and girl's) approximately **12"W x 36"H x 16"D** (large) in size. Combine six (small)-and-one (large)

lockers to create a set. Fasten lockers to floor or wall, approximately, 6" to 8" above floor. Install benches in front of lockers, approximately, 30" away from lockers. Security mirrors as required for visibility in blind spots. Therefore, 1,120 lockers installed on both the boy's and girl's side of the locker rooms with a total of 2,240 lockers for a 2500 capacity school.

Size of Lockers	1800 Capacity	2000 Capacity	2500 Capacity
12"W x 12"H x 16"D	720 for girls 720 for boys	768 for girls 768 for boys	960 for girls 960 for boys
12"W x 36"H x 16"D	120 for girls 120 for boys	128 for girls 128 for boys	160 for girls 160 for boys
TOTAL	840 for girls 840 for boys	896 for girls 896 for boys	1,120 for girls 1,120 for boys

18. **Varsity: Physical Education Locker Room:** (PEAK LOAD - 100): (150) lockers at each area (boy's and girl's) approximately, 15"W x 18"D x 36"H in size with combination locks for each locker. Fasten lockers to floor or wall, approximately, 6" to 8" above floor. Install benches in front of lockers, approximately, 30" away from lockers. This locker room area shall be separated from the main locker room area by means of a wire mesh fence or similar partition. Security mirrors for visibility in blind spots may be installed. Therefore, a total of 300 lockers.

Size of Lockers	1800 Capacity	2000 Capacity	2500 Capacity
15"W x 18"D x 36"H	150 for girls 150 for boys	150 for girls 150 for boys	150 for girls 150 for boys

- S. **Other Considerations** - Lockers shall be installed to insure that maximum utilization of room space is made. Locate as many lockers as possible on the walls of the locker rooms. Any and all rows shall be designed so that instructors will have an unobstructed view of the locker and dressing areas, as well as entrance doors.

Locate one spit fountain in the wrestling room and weight room. Locate training room adjacent to multipurpose and weight rooms.

1. **Outside Facilities (refer to DDC)**

a. **Tennis court (8)**

- (1) 21' clearance at each end of court
- (2) 12' clearance between courts and/or fence; court size, 36' x 78'

Utilize a smooth, hard surface, with appropriate court markings. All courts shall be fenced with wind screen and access gates.

b. **Combination Basketball/Volleyball Court (4)**

- (1) court surface, 50' x 84', each court
- (2) clearance, 10', on all four sides

Playing surface must be of a suitable smooth, hard surface, marked for basketball and volleyball with contrasting colors.

c. **Track/Field Events**

Regulation 400 meter, eight-lane running track, with all proper lane markings for standard and metric events. Provide and install the areas for the field events: shot put, discus, low jump, triple jump, pole vault and high jump.

Regulation size soccer field with Bermuda grass shall be located within the track area with locations for portable goals. Permanent football goals posts shall be in place for regulation football field.

d. **Baseball**

A regulation baseball field (90' bases) shall be built with regulation backstop and Bermuda grass infield and outfields with clay base paths. The dugout shall have a roof and concrete floor. Include metal or concrete benches, seat 20 for both dugouts. The contractor shall provide the PA system and lights.

e. **Softball**

Enough land space shall be provided for softball fields (2), 65' bases, one for practice and physical education use and one regulation field with Bermuda grass outfield and infield with clay base paths. Backstops included in each field. The practice field shall have bahia grass outfield and infield with clay base paths. The dugout shall have a roof and concrete floor. Include metal or concrete benches, seat 20 for both dugouts. The contractor shall provide the PA system and lights.

f. **Stadium**

Locate stadium around running track/soccer field. Provide 3,000 bleachers for the home side and 1,000 bleachers for the visitor side. An elevator to the press box. Electrical and computer outlets in the press box with PA system. The contractor shall provide the PA system and lights.

G. **Practice Field**

Enough land space shall be available for large bahia grassed area (3), 150'x300' minimum, for field games and practice areas for athletic teams and band use.

All of the areas above shall be sodded, properly drained and provisions made for proper irrigation.

Consideration shall be given to the following: Tennis and basketball courts shall be designed for play by participants facing north and south to diminish the amount of sun in the players' faces. Regulation baseball and softball fields shall be designed so that the afternoon sun is over the back and shoulders of the first baseman during practice and games.

Provide and install portable aluminum bleacher section (4), five-row minimum, capacity, 40 - 50 students.

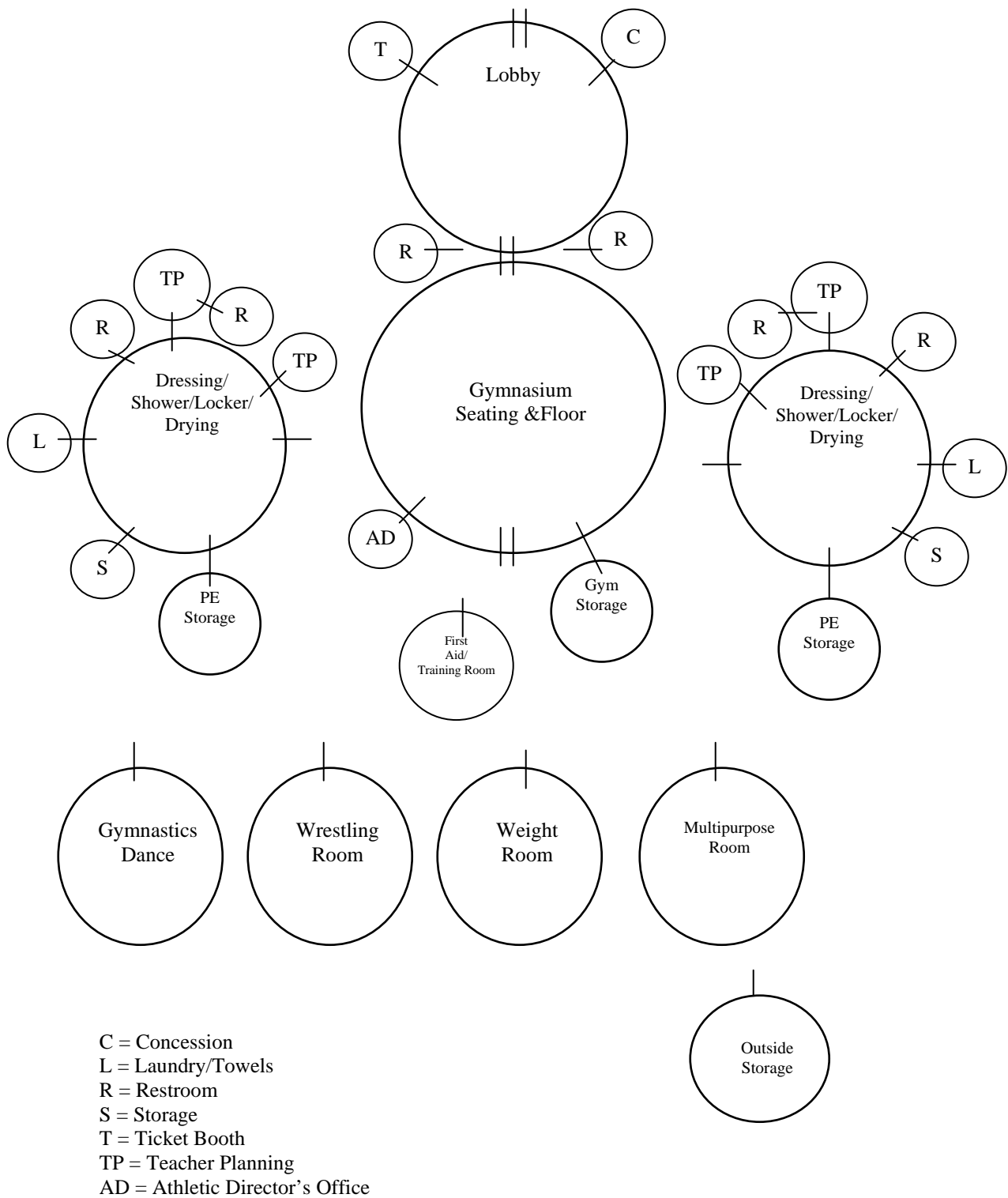
Irrigation and lighting to be controlled at outdoor storage building.

Contractor shall provide all tennis nets, volleyball nets, basketball nets, etc. and standards.

Contractor to provide conduit and scoreboards at the stadium, softball and baseball fields.

SPATIAL RELATIONSHIPS

Physical Education



RESOURCE ROOMS

I. PROGRAM PHILOSOPHY

All students are entitled to receive appropriate educational services designed to achieve two major objectives: (1) the development of skills and competencies common to all citizens; (2) the development of skills and competencies unique to the students' individual potentialities.

II. PROGRAM GOALS

Students will be provided educational programs designed to meet their individual needs.

III. PROGRAM ACTIVITIES

Instruction will be provided in academic, vocational, living skills and enrichment curriculum areas.

IV. ORGANIZATIONAL NOMENCLATURE

Teacher - Student Ratio 1:15
Grade Levels For Which Program Is Intended 9-12

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

N/A

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.)

A. NSF allocated as follows: 3 to Technical Workshop, 2 to Driver Education and 2 to Music.

B. Combine all the square footage to create two (2) 599 s.f. Resource Rooms.

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
RESOURCE ROOMS							
040	2	Resource Room with storage folded into room (3 to technical workshop, 2 to Drivers Ed, 2 Music)		599	1,198		
		TOTAL			1,198		

VIII. PROGRAM FURNITURE AND EQUIPMENT

A. Resource Room

No. of Items	Contractor Provided	District Provided (FF&E)	Description
15		X	Student desk combos
4		X	Computer table
1		X	Stool, 30"
1		X	Table, 30"W x 72"L
6		X	Chair
1		X	File cabinet, four-drawer, legal, lateral, lockable
4		X	Computer
2		X	Printer
1		X	Computer and printer for teacher
1	X		Teacher storage cabinet, 36"W x 30"D x 72"H, with adjustable shelving, lockable
2	X		Marker board, 4' x 8', with map rail and flag holder
2	X		Tack Board, 4' x 4'
1	X		80"w x 60"h Video Format Screen with black masking borders
1		X	Pencil sharpener, electric
1	X		Clock
1	X		Multimedia cabinet (refer to General Considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

Refer to GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROL.

- A. Heating/Cooling/Ventilation - As required to meet District Standards.
- B. Acoustical - As required to meet District Standards.
- C. Floor - As required to meet District Standards.
- D. Walls - As required to meet District Standards.
- E. Ceiling - As required to meet District Standards.
- F. Lighting - As required to meet District Standards.
- G. Windows - As required to meet District Standards.

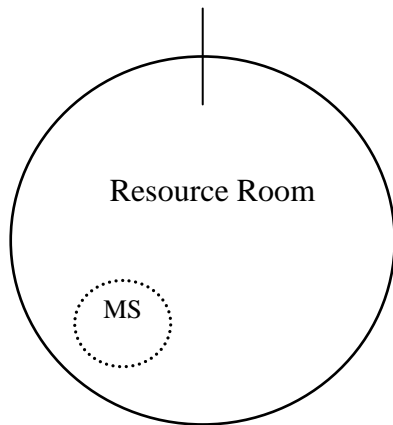
- H. **Doors** - As required to meet District Standards.
- I. **Water/Plumbing Fixtures** - As required to meet District Standards.
- J. **Communications** -. As required to meet District Standards.
- K. **Electrical** - As required to meet District Standards.
- L. **Instructional Technology** - As required to meet District Standards.
- M. **Gas and Air** - As required to meet District Standards
- N. **Safety** – As required to meet District Standards.
- O. **Fencing** - As required to meet District Standards.
- P. **Service Drives** – As required to meet District Standards.
- Q. **Parking** - As required to meet District Standards.
- R. **Built-ins**
 - 1. Provide base cabinet with lockable doors and adjustable shelves and upper cabinets with lockable doors and adjustable shelves.
 - 2. Provide built-in bookcase, 5’L x 15”D x 40”H with adjustable shelves.
 - 3. Provide Multimedia cabinet and workstation - refer to General Considerations.
- S. **Other Considerations**

N/A

SPATIAL RELATIONSHIPS

Resource Room

See other sections for Resource Room spatials



MS – Material Storage
Not all spaces are shown

RESTROOMS

Provide public restrooms in gymnasium, auditorium, and administration. Provide restrooms for kitchen staff in kitchen. Provide restrooms for faculty and staff immediately adjacent to staff dining. Provide restrooms in clinic. Provide staff restroom adjacent to teacher planning for shared disciplines. Ceramic tile in toilets shall be floor to ceiling.

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
RESTROOMS (adjust square footage for FACBC and parity requirements)							
822/823		Public Restrooms			500		
815/816		Student Restrooms			3,750		
819/820		Staff Restrooms			1,000		
		TOTAL			5,250		

Although square footage allocation is per SREF, accommodations for size of spaces and numbers of spaces must be made for F.A.C.B.C. and parity.

SCIENCE**I. PROGRAM PHILOSOPHY**

Today's society requires scientifically literate and laboratory-skilled high school graduates. Therefore, it is imperative that they participate in a dynamic science education program with considerable laboratory opportunities. Such a program will encourage student understanding of the experimental nature of science, increase the level of students' technical skills, and enhance student enthusiasm.

II. PROGRAM GOALS

- A. Maximize laboratory use and provide a laboratory-centered science experience for all students.
- B. Provide a cost-effective laboratory program through more efficient utilization of materials and equipment.
- C. To eliminate equipment duplication.

III. PROGRAM ACTIVITIES**A. Courses Offered**

- | | |
|---------------------------------|------------------------------|
| 1. Earth Science | 9. Botany |
| 2. Biology I, II, honors & AP | 10. Zoology |
| 3. Marine Science | 11. Astronomy |
| 4. Chemistry I, II, honors & AP | 12. Environmental Science |
| 5. Physical Science | 13. Ecology |
| 6. Physics I, II & AP | 14. Principles of Technology |
| 7. Science Research | 15. Genetics |
| 8. Anatomy and Physiology | 16. Intergrated Science |

The facilities must be adaptable to all these curricula. It is planned that all courses will be taught with an emphasis on investigation.

B. Teacher Activities

- 1. Conduct lecture/class discussion.
- 2. Demonstrate for single and double classes in lecture room.
- 3. Demonstrate on marker board and with overhead projector.
- 4. Plan, provide and lead laboratory activities.
- 5. Use ITV, films, Closed-Circuit TV, etc.
- 6. Teach, test and remediate individuals, small and large groups.
- 7. Prepare students for science fair competitions.
- 8. Answer individual student questions.
- 9. Plan individually and departmentally.
- 10. Team two teachers with single and double classes in teaching/lecture room.
- 11. Use models, charts and whiteboard
- 12. Conduct outdoor instructional activities for classes and individual students.

C. Student Activities

1. Classroom/Laboratory

- a. Perform activities in small and large groups.
- b. Listen to lecture and participate in class discussions.
- c. Watch audio-visual and ITV presentations
- d. Participate in small group activities with display equipment, such as aquarium models and other apparatus for class projects not requiring laboratory facilities.
- e. Maintain animals and plants.
- f. Observe specimens under a microscope.
- g. Plan, prepare, demonstrate, and exhibit science fair projects.
- h. Perform activities which involve the use of gas, water, air and electricity.
- i. Utilize counter space to read earth science maps, operate computers, etc.
- j. Study and experiment individually.
- k. Collect and identify rocks, minerals and soil.
- l. Perform scientific experiments in groups of two or three. These experiments will apply, prove and/or test basic theories which have been presented in the classroom.
- m. Use a variety of microscopes.
- n. Utilize apparatus and equipment in performing scientific experiments requiring electricity, water, air, and gas.
- o. View ITV, films, and/or videos individually and in groups.
- p. Interface the computer with basic laboratory equipment.

IV. ORGANIZATIONAL NOMENCLATURE

Teacher - Student Ratio 1:25

Grade Levels for Which Program is Intended 9 - 12

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

- A. Provide for inter- and intra-departmental Closed-Circuit TV which will allow for the transmission of appropriate lectures and demonstrations to selected

classrooms/laboratories.

The opportunity for centralizing signal origination shall be available. Selective switching of programming to points of signal origination shall include the classroom/laboratories.

- B. Community School utilization in science-related interest areas, e.g., electricity, astronomy.
- C. Science areas shall have a lockable, equipment maintenance room with hose bibb to allow cleaning and storage of wet equipment after field trips.
- D. Six science laboratories shall be equipped for Biology, Chemistry, Physics, and Earth/Physical Science programs.

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.)

- A. Chemical Storage of 400 NSF is necessary to meet the current state safety standards for the storage of chemicals and for the preparation of chemicals for laboratory use.

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
SCIENCE							
023	12	Science Demonstration/Classroom		1,300	15,600	25	300
808	12	Material Storage		150	1,800		
		Subtotal			17,400		
012	1	Computer Laboratory & Storage			900	25	25
808	1	Material Storage		45	45		
		Subtotal			945		
810	2	Chemical Storage		400	800		
		TOTAL			19,145		325

II. PROGRAM FURNITURE AND EQUIPMENT

A. Laboratory (per lab)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
4	X		Tables to seat eight students at each table; F.A.C.B.C. and F.A.C.B.C. accessible, flat table top to include gas, air, water and sink(s) with sink cover; electric on aisle side of tables away from sink, and electric & data on wall side of tables.
1		X	Teacher desk and chair
1		X	Laboratory Stool, adjustable back

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Table, 30"W x 72"L
32		X	Chair
1		X	File cabinet, four-drawer, legal, lateral, lockable, chemical resistant top
2		X	Laboratory cart, portable
1		X	Fume hood, permanent, vented to outside, in each chemistry lab
1		X	Safety shield, (explosion shield) portable
1		X	Sterilizer for safety goggles with lamp
1		X	Trash can, 25-gal., non-metal
1		X	Spark-resistant safety can for disposal of flammables
1		X	Dry chemical waste container
16		X	Microscope
40		X	Safety goggle and spill-control pillows
1		X	Sand bucket, 25 pounds
30		X	Student apron
1		X	Teacher Lab coat
1		X	Electronic Scale
1		X	Ultrasonic cleaner
1		X	Microviewers
1		X	Flex Cam
25		X	Triple-beam balance
1		X	Stream table, portable (Earth Science only)
1		X	Weather station with Barograph, Thermograph, etc. (Earth Science only)
8	X		Sinks, stainless steel (with sink covers)
1	X		Deluge shower and eye wash
1	X		Glassware drying rack, mounted above ink
4		X	Computer
2		X	Printer
1		X	Computer and printer for teacher
2	X		Marker board, stackable, 4' x 16', with map rail and flag holder
2	X		Tack Board, 4' x 4'
1	X		80"w x 60"h Video Format Screen with black masking borders
1			Pencil sharpener, electric
	X		Fire extinguishers, per code
1	X		Fire blanket, wall-mounted
1	X		First Aid kit, wall mounted
1	X		Display cabinet, transparent front
1	X		Clock
1	X		Multimedia cabinet (refer to General Considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)
1	X		Teacher demonstration table (refer to special considerations)

B. Chemical Storage (per)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X		Glassware drying rack, mounted above sink
1		X	Trash can, 25-gal. capacity, non-metal
4	X		Smoke detector
1		X	File cabinet, four draw, legal, lateral, lockable
1	X		Refrigerator with ice maker, shared within department
1	X		Dishwasher, shared within department
	X		Exhaust fan per code
1	X		Double stainless steel sink
5		X	Stainless steel laboratory, cart
3	X		Fire proof steel storage cabinet (3), lockable -- one cabinet each for caustics, acids and flammables
1	X		Fixed fume hood, vented outside
	X		Built-ins (refer to special considerations)

C. Material Storage (per)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X		Glassware drying rack, mounted above sink
1		X	Trash can, 25-gal. capacity, non-metal
	X		Smoke detector, per code
	X		Exhaust fan, per code
1	X		Double stainless steel sink
	X		Built-ins (refer to special considerations)

D. Computer Laboratory Dedicated to the Science Department

No. of Items	Contractor Provided	District Provided (FF&E)	Description
30		X	Computer workstation with wire management
30		X	Chair
1		X	File cabinet, four-drawer, legal, lateral, lockable, chemical resistant top
30		X	Computer
4		X	Printer
1		X	Computer and printer for teacher
1	X		Marker Board, 4' x 16', with map rail and flag holder
2	X		Tack Board, 4' x 4'
1	X		80" w x 60" h Video Format Screen with black masking borders
1			Pencil sharpener, electric
1	X		Clock
1	X		Multimedia cabinet (refer to General Considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

Refer to GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROL.

- A. Heating/Cooling/Ventilation - As required to meet District Standards.
- B. Acoustical - As required to meet District Standards.
- C. Floor - As required to meet District Standards.
- D. Walls - As required to meet District Standards.
- E. Ceiling - As required to meet District Standards.
- F. Lighting - As required to meet District Standards.
- G. Windows - As required to meet District Standards. Provide observation window between material storage and laboratories.
- H. Doors - As required to meet District Standards.
- I. Water/Plumbing Fixtures - As required to meet District Standards. Provide master shut-off valve for water.
- J. Communications - As required to meet District Standards.
- K. Electrical - As required to meet District Standards. Master shut-offs to all electrical outlets in an area shall be provided and located in a secure area near the demonstration areas in laboratories and near the exit doors of other areas, with the exception of the chemical storage room where the master shutoff will be located externally and marked.
- L. Instructional Technology - As required to meet District Standards.
- M. Gas and Air - As required to meet District Standards. Provide two gas lines at teacher station and at student stations. For Chemistry and Advanced Biology laboratories, provide compressed air, gas and water at teacher station and at student stations. Provide master shut-off valves for gas and compressed air. Based on program furniture and equipment, provide gas and compressed air as required.
- N. Safety - As required to meet District Standards.
- O. Fencing - As required to meet District Standards.

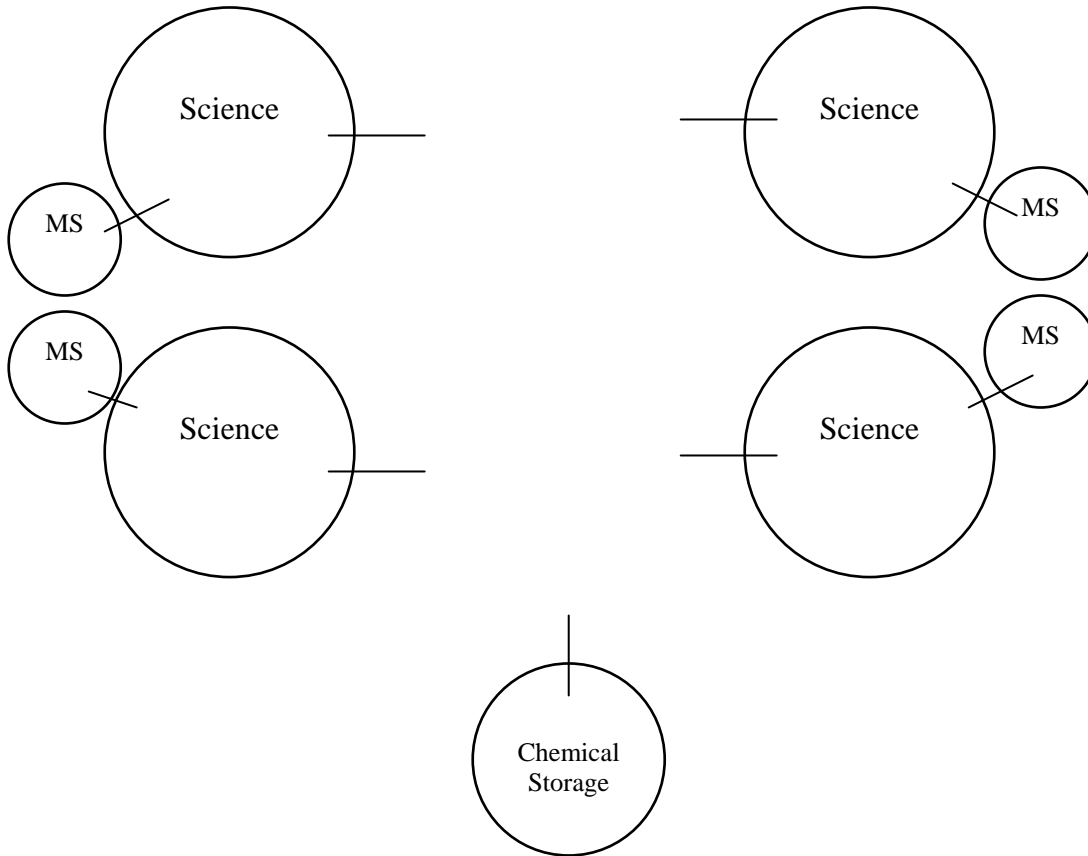
- P. Service Drives** – As required to meet District Standards.
- Q. Parking** - As required to meet District Standards.
- R. Built-ins**
- 1. Laboratory** –
 - a. Provide and position counters on both side walls with lockable cabinets below and glass-fronted cabinets above. Leave at least 2' of space between counter and upper cabinets to accommodate computers and other equipment.
 - b. Provide bookcases, 30"H, adjustable shelves.
 - c. Provide microscope cabinet to house microscope (60), and stereoscopic microscope (15), lockable. Provide bookcase with locking, hinged, glass doors and adjustable shelves, approximately, 84"H x 42"W x 16"D.
 - d. Provide teacher demonstration table, 72", permanent with sink, electrical data connections, water, gas and air hook-ups with above demonstration mirror.
 - e. Provide computer counter to accommodate four (4) computers and two (2) printers (14'W x 30"D). The counter shall have grommets for wire management.
 - f. Provide Multimedia cabinet - refer to General Considerations.
 - 2. Material Storage** – Provide acid-resistant counter on two walls with double, deep sink (2) with residue traps, full service (gas, air, electricity, water); lockable drawers and open, adjustable shelf base cabinets. Provide wall cabinets, glass-front doors, lockable, with adjustable shelves on available wall space. Provide shelving, floor-to-ceiling, adjustable shelves, 12"D, on available wall space.
 - 3. Chemical Storage** – Provide stone top counter, approximately, 10', with acid-resistant sink with residue traps, full service (gas, air, electricity, water); lockable drawers and open, adjustable shelf base cabinets. Provide 100 lineal feet, 14"D, chemical storage shelving, non-corrosive. Provide full-height, adjustable shelving on available wall space, with lip, non-corrosive.
 - 4. Computer Lab** – refer to Computer Education/Skills Development Laboratory section of the educational specification.

S. Other Considerations

1. Provide grease traps, where necessary.
2. Chemical storage to have outside wall in case of explosion.
3. Student activities take place in the perimeter areas of the laboratory. Laboratory shall require adequate standing height work surface.
4. A dispensing area located in the laboratory shall be necessary to issue supplies and equipment.

SPATIAL RELATIONSHIPS

Science



MS = Material Storage

Not all spaces are shown

SOCIAL STUDIES

I. PROGRAM PHILOSOPHY

The high school social studies program is organized around, and focused on, personal and societal goals that help students become effective participants in the social world. Additionally, the program provides an understandable framework for integrating knowledge from history and the social science disciplines and for explicating the major knowledge, skills, values, and participation goals of social studies.

II. PROGRAM GOALS

The high school social studies program goals center around the preparation of students for more reflective and effective political participation in their society. The program goals would include the following:

- A. Socialization - aimed at helping the student become an effective member of social groups.
- B. Decision-making processes - aimed at helping students to make effective use of intellectual skills in reaching decisions about his/her social concerns.
- C. Citizenship - aimed at helping the students to use more effectively the processes of a representative-democratic government.
- D. Knowledge Acquisition - aimed at helping the student to acquire and utilize information and intellectual skills provided through social science curriculum.

In addition, the program will stress the assimilation of three important components of social studies - subject, learner and society.

III. PROGRAM ACTIVITIES

A. Curriculum

1. American Government
2. American History
3. Comparative Political Systems
4. Economics
5. Law Studies
6. Psychology
7. Sociology
8. World Geography
9. World History
10. Anthropology
11. African-American History
12. Advanced Placement Courses

B. Teacher Activities

1. Confer with individual students.
2. Consult with small groups on activities, discussions or projects.
3. Lead large or small discussion groups.
4. Plan bulletin boards and interest centers.
5. Recommend materials and equipment.
6. Plan with team of teachers for class and inter-level group activities.
7. Assist with assembly programs.
8. Sponsor enrichment programs.
9. Provide demonstrations.
10. Help to plan and lead field trips.
11. Lecture.
12. Interview resource people.
13. Provide techniques for teacher and student evaluation of learning.
14. Conduct teacher, parent, and pupil conferences.
15. Utilize computer lab activities

C. Student Activities

1. Think - Creative and critical thinking, problem solving, associations.
2. Speak - Speeches, explanations, dramatizations, demonstrations, simulations, class and panel discussions.
3. Read - Textbooks, reference books, reports, magazines, newspapers, fiction, trade books.
4. Write - Creative writing, reports, research papers, outlines, summaries, speeches, comparisons.
5. View - LCD projectors, pictures, T.V., maps, charts, globes
6. Inspect - Relief maps, roads maps, globes, artifacts, samples, pictures, charts, graphs.
7. Construct - Booklets, displays, posters, scrapbooks, graphs, bulletin boards, maps, charts, diagrams, time lines, pictures, replicas, dioramas, mobiles, murals.

IV. ORGANIZATIONAL NOMENCLATURE

Teacher - Student Ratio 1:25

Grade Levels for Which Program is Intended 9 - 12

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

- A. Areas may be used for night class and community school activities.

- B. The architect shall study the shape of typical classrooms to provide for efficient operation and communication, utilizing marker board and wall-mounted illustrations. The spaces must also provide flexibility for large and small group instruction as well as the capability for individualization. Computerized lab activities will be incorporated into instructional program.

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.) -

N/A

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
SOCIAL STUDIES							
003	8	Classroom		810	6,480	25	200
808	8	Material Storage		45	360		
TOTAL					6,840		200

VIII. PROGRAM FURNITURE AND EQUIPMENT

A. Classroom

No. of Items	Contractor Provided	District Provided (FF&E)	Description
25		X	Student desk combo
1		X	File cabinet, four-drawer, legal, lateral, lockable
1		X	Table, 30" x 72"
1		X	Lectern
1		X	Stool
1		X	Map/globe
1	X		Marker board, 4' x 16', with map rails and flag holder
2	X		Tack Board, 4' x 4'
1	X		80" w x 60" h Video Format Screen with black masking borders
4		X	Computers
2		X	Printers
1		X	Computer and printer for teacher
1		X	Pencil sharpener, electric
1	X		Clock
1	X		Multimedia cabinet (refer to General Considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

Refer to **GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROL.**

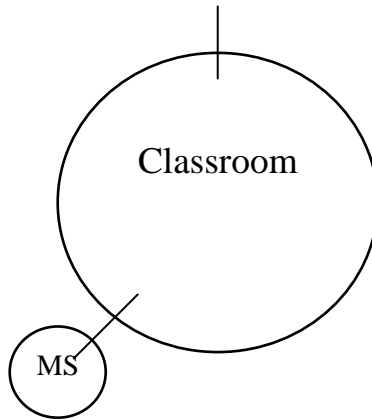
- A. **Heating/Cooling/Ventilation** - As required to meet District Standards.
- B. **Acoustical** - As required to meet District Standards.
- C. **Floor** - As required to meet District Standards.
- D. **Walls** - As required to meet District Standards.
- E. **Ceiling** - As required to meet District Standards.
- F. **Lighting** - As required to meet District Standards.
- G. **Windows** – As required to meet District Standards.
- H. **Doors** - As required to meet District Standards.
- I. **Water/Plumbing Fixtures** - As required to meet District Standards.
- J. **Communications** - As required to meet District Standards.
- K. **Electrical** - As required to meet District Standards.
- L. **Instruction Technology** - As required to meet District Standards.
- M. **Gas and Air** - As required to meet District Standards.
- N. **Safety** – As required to meet District Standards.
- O. **Fencing** – As required to meet District Standards.
- P. **Service Drives** – As required to meet District Standards.
- Q. **Parking** – As required to meet District Standards.
- R. **Built-ins**
 - 1. Provide base cabinet with lockable doors and adjustable shelves and upper cabinets with lockable doors and adjustable shelves.
 - 2. Provide built-in bookcase, 5'L x 15"D x 40"H with adjustable shelves.

3. Provide computer counter to accommodate four (4) computers and two (2) printers (14'W x 30"D). The counter shall have grommets for wire management.
4. Provide Multimedia cabinet and workstation - refer to General Considerations.
5. Provide metal shelving (3 – 36"w x 18"d x 80"h) in storage.

S. Other Considerations - N/A

SPATIAL RELATIONSHIPS

Social Studies



MS – Material Storage

Not all spaces are shown

TEACHER PLANNING

I. PROGRAM PHILOSOPHY

Refer to overall. (Page 1)

II. PROGRAM GOALS

The goal is to provide teachers and staff with a comfortable and restful environment in which to mentally and physically relax during non-duty periods.

III. PROGRAM ACTIVITIES

The teacher planning areas shall provide spaces for the social and emotional development of teachers and staff. It also provides the opportunity for small group meetings and planning.

IV. ORGANIZATIONAL NOMENCLATURE

During the course of the day staff members will use the facilities. The number of people, at any one time, will vary.

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES - N/A

VI. JUSTIFICATION FOR VARIANCE FROM SREF REQUIREMENTS

A. Teacher Planning shall be located in the instructional area and adjacent to the Satellite Administrative Suites.

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
TEACHER PLANNING							
315	4	Teacher Planning		1,068	4,272		
		TOTAL			4,272		

VIII. PROGRAM FURNITURE AND EQUIPMENT

No. of Items	Contractor Provided	District Provided (FF&E)	Description
		X	Vending machine(s)
1		X	Copier
10-12		X	Computers
10		X	Printers
1	X		Tack board, 4' x 6'
1	X		Clock
2-3		X	Activity Table

No. of Items	Contractor Provided	District Provided (FF&E)	Description
10-12		X	Chairs
1	X		Refrigerator
1	X		Microwave
	X		Built-ins (refer to special considerations)

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

Refer to GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROL.

- A. **Heating/Cooling/Ventilation** - As required to meet District Standards.
- B. **Acoustical** - As required to meet District Standards.
- C. **Floor** - As required to meet District Standards.
- D. **Walls** - As required to meet District Standards.
- E. **Ceiling** - As required to meet District Standards.
- F. **Lighting** - As required to meet District Standards.
- G. **Windows** - As required to meet District Standards.
- H. **Doors** - As required to meet District Standards.
- I. **Plumbing Fixtures/Water** - As required to meet District Standards.
- J. **Communications** - As required to meet District Standards.
- K. **Electrical** - As required to meet District Standards.
- L. **Instructional Technology** - As required to meet District Standards.
- M. **Gas and Air** - As required to meet District Standards.
- N. **Safety** - As required to meet District Standards.
- O. **Fencing** - As required to meet District Standards.
- P. **Service Drives** - As required to meet District Standards.
- Q. **Parking** - As required to meet District Standards.

R. Built-ins -

1. Provide computer counter with grommets to accommodate ten (10) teachers with computer and printer. Provide lockable upper cabinets above computer counter.
2. Provide upper and lower cabinet with sink.

SPATIAL RELATIONSHIPS
Teacher Planning

Refer to Administrative Satellite Suites for Spatial

AGRISCIENCE

I. PROGRAM PHILOSOPHY

Today's society requires scientifically literate and laboratory-skilled high school graduates. Therefore, it is imperative that they participate in a dynamic science education program with considerable laboratory opportunities. Such a program will encourage student understanding of the experimental nature of science, increase the level of students' technical skills, and enhance student enthusiasm with an emphasis in Agriscience career exploration.

II. PROGRAM GOALS

- A. Maximize laboratory use and provide a laboratory-centered science experience for the specific use of students in an Agriscience-based curriculum.
- B. Provide a laboratory program with the newest technologies to create pathways to careers in Agriscience.
- C. To create one of the most advanced Agriscience programs in the country.
- D. To develop working partnerships with community organizations and create intern-ready students for working in Agriscience facilities.

III. PROGRAM ACTIVITIES

A. Courses Offered

The Academy of Agriscience and Natural Resource Education shall offer three courses: 1) Aquaculture, 2) Horticulture Science and Services, and 3) Landscape Operations.

- 1. Agriscience Foundations I
- 2. Aquaculture 2
- 3. Aquaculture 3
- 4. Introductory Horticulture
- 5. Horticultural Science 3
- 6. Horticulture Science and Services 4
- 7. Horticulture Science and Services 5
- 8. Horticulture Science and Services 6
- 9. Landscape and Turf Sciences 4
- 10. Landscape and Turf Science 5
- 11. Landscape Operations 6

B. Teacher Activities

- 1. Conduct lecture/class discussion.
- 2. Demonstrate for single and double classes in lecture room.
- 3. Demonstrate on marker board, smart board and projector.
- 4. Plan, provide and lead laboratory activities.
- 5. Use ITV, videos, Closed-Circuit TV, etc.
- 6. Teach, test and remediate individuals, small and large groups.
- 7. Prepare students for science fair competitions.

8. Answer individual student questions.
9. Plan individually and departmentally.
10. Team teachers with single and double classes in teaching/lecture room.
11. Use models and charts.
12. Conduct outdoor instructional activities for classes and individual students.

C. Student Activities

1. Classroom/Laboratory

- a. Perform activities in small and large groups.
- b. Listen to lecture and participate in class discussions.
- c. Participate in small group activities with display equipment, such as aquarium models and other apparatus for class projects not requiring laboratory facilities.
- d. Maintain animals and plants in an environment conducive to study.
- e. Plan, prepare, demonstrate, and exhibit science research projects for science fairs and student organizations.
- f. Utilize counter space to read earth science maps, operate computers, etc.
- g. Study and experiment individually.
- h. Perform experiments in a humid and light controlled environment.
- i. Perform scientific experiments in groups of two or three. These experiments will apply, prove and/or test basic theories which have been presented in the classroom.
- j. Use a variety of microscopes to observe specimens and project microscope images through the use of projectors.
- k. Utilize apparatus, equipment and perform scientific experiments requiring electricity, water, air, and gas.
- l. View ITV, and videos individually and in groups.
- m. Interface the computer with basic laboratory equipment.

IV. ORGANIZATIONAL NOMENCLATURE

Teacher - Student Ratio 1:20

Grade Levels for Which Program is Intended 9 - 12

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

- A. Provide for inter- and intra-departmental Closed-Circuit TV which will allow for the transmission of appropriate lectures and demonstrations to selected classrooms/laboratories.

The opportunity for centralizing signal origination shall be available. Selective switching of programming to points of signal origination shall include the classroom/laboratories.

- B. Community School utilization in science-related interest.
- C. Science areas shall have a lockable, equipment maintenance room with hose bibbs to allow cleaning and storage of wet equipment after field trips.
- D. The science laboratories shall be equipped for Biology, Chemistry, Physics, Agriculture and other related Science programs.

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.)

- A. Combine Material Storage and Reference into one space.
- B. Create outside storage from machinery storage.

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
Agriscience							
203	1	Laboratory			1,600	20	20
806	1	Reference			100		
810	1	Material Storage			395		
818	2	Locker Room		225	450		
840	1	Related Classroom			680		
841	1	Greenhouse			800		
847	1	Flammable Storage			125		
848	1	Machinery Storage			1,100		
851	1	Tool Storage			310		
		TOTAL			5,560		20

II. PROGRAM FURNITURE AND EQUIPMENT

A. Laboratory

No. of Items	Contractor Provided	District Provided (FF&E)	Description
6-8	X		Lab tables to seat four students at each table; F.A.C.B.C. accessible, flat table top with acid resistant counter: no monitor well turret, enclosure or infrared remote keyboard; include deep, double stainless steel sink (in the middle of the table), deep, with cover for when sink is not in use; exclude portable cabinet cubicles and upright clamp rod assembly; include cold water unicast fixture with gas, air, electric and data (no unimix H/C). Work with District staff for the placement of the utilities located at the tables.
20-30		X	Student Chairs
15		X	Lab Tables for instruction
1		X	Teacher desk and chair
1		X	Laboratory Stool, adjustable back
20-30		X	Student Laboratory Stools
1		X	Activity table, 30"W x 72"L
1		X	File cabinet, four-drawer, legal, lateral, lockable, chemical resistant top
1		X	Laboratory cart, portable
1	X		Fume hood, permanent, vented to outside
1		X	Safety shield, (explosion shield) portable
1	X		Sterilizer for 40 safety goggles with lamp
1		X	Trash can, 25-gal., non-metal
1		X	Spark-resistant safety can for disposal of flammables
1		X	Dry chemical waste container
30-40		X	Microscope, regular and tissue culture
40		X	Safety goggle and spill-control pillows
1		X	Sand bucket, 25 pounds
30		X	Student apron
50-10		X	Gloves, various types
50		X	Soil Testing Kit
50		X	Soil Compactor Testing Kit
20		X	Soil temperature thermometer
10		X	Soil analysis hydrometer
10		X	Soil acidity meter
20		X	Soil moisture tester
10		X	Hydrometer cylinder
50		X	Fertilizer analyzer
10		X	Limnological water test outfit
10		X	Electric soil sterilizer
50		X	Plant tissue test kit
10		X	Soil reaction tester/meter
10		X	Acid rain study kit
50		X	Water Pollution Detection Kit
50		X	Air Pollution Detection Kit
50		X	Dissecting Kits
50		X	Nematode study kit
50		X	Pesticide safety kit
50		X	Transpiration bio kit

No. of Items	Contractor Provided	District Provided (FF&E)	Description
5		X	Egg Candling Light
1		X	Land, Heavy duty, long distance, Measuring Wheel
1		X	Laser Finder
1		X	Projector, microvideo for use with microscope
1		X	Rangefinder
5		X	Respirator
1		X	Vacuum Cleaner, wet/dry, minimum 16 gal.
5		X	Soil Meter
2		X	Stirring Unit
1		X	Tachometer
1		X	Indicator, Wind Speed
1		X	Protective Screen 5'x6'
2		X	Digital Camera
2		X	Camcorder
5		X	Scale
1	X		Autoclave
1		X	Centrifuge, Benchtop
1		X	Clinometer
1		X	Compass with staff
1		X	Planimeter, Digital
1		X	Mixer, Concrete
1		X	Conduit Bender, Offset, one each of 1/2 & 3/4
5		X	pH Meter, waterproof
5		X	Soil formation kit
1		X	Rain Gauge, electronic
1		X	Wireless Weather Station
5		X	Hygrometer Indicator
12		X	Dew Point Apparatus
2		X	Thermometer, indoor & outdoor
1		X	Incubator
1		X	Brooder
2		X	Altimeter/barometer
1		X	Mobile agriculture station
4		X	Fish tank & accessories, minimum of 55 gal.
2	X		Microwave (large enough to hold 1 liter)
1	X		Deluge shower and eye wash
1	X		Stove
2	X		Glassware drying rack, mounted above sink
1	X		Refrigerator with ice maker
1	X		Dishwasher, commercial grade
1	X		Double stainless steel sink adjacent to dishwasher
6		X	Computer
3		X	Printer
1		X	Computer and Printer for teacher
1		X	Fax Machine
5		X	Multimedia Kit
60		X	Laptop computer
3	X		Insect cabinet with pinning trays (10 draws each)
1		X	Tissue culture incubator
1		X	Engraver
1		X	Binding Machine
1		X	Paper Cutter
1		X	Photocopier

No. of Items	Contractor Provided	District Provided (FF&E)	Description
5	X		Chemical Storage Cabinet
2	X		Marker board, stackable, 4' x 16', with map rail and flag holder
2	X		Tack Board, 4' x 4'
1	X		80''w x 60''h Video Format Screen with black masking borders
1		X	Pencil sharpener, electric
	X		Fire extinguishers, per code
1	X		Fire blanket, wall-mounted
1	X		First Aid kit, wall mounted
1	X		Display cabinet, transparent front
1	X		Clock
	X		Built-ins (refer to special considerations)
1	X		Teacher demonstration table (refer to special considerations)
1	X		Multimedia cabinet (refer to general considerations)
1		X	DVD/VCR Combo
1		X	Document camera
2		X	Wireless laptop carts
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement

B. Flammable Storage

No. of Items	Contractor Provided	District Provided (FF&E)	Description
		X	Gasoline Containers
		X	Sprayers
1		X	Trash can, 25-gal. capacity, non-metal
	X		Smoke detector, per code
	X		Exhaust fan, per code
	X		Fire extinguishers, per code
1	X		Fire blanket, wall-mounted
1	X		First Aid kit, wall mounted
1	X		Double stainless steel sink, deep
2		X	Stainless steel laboratory, cart
3	X		Fire proof steel storage cabinet (3), lockable -- for caustics, acids, flammables, pesticides & fertilizers
1	X		Fixed fume hood
1	X		Glassware drying rack, mounted above sink
	X		Built-ins (refer to special considerations)

C. Material Storage

No. of Items	Contractor Provided	District Provided (FF&E)	Description
2	X		Fire proof steel storage cabinet (3), lockable -- one cabinet each for caustics, acids and flammables
1	X		Refrigerator with ice maker, commercial
1		X	Trash can, 25-gal. capacity, non-metal
2	X		Double stainless steel sink, deep
1	X		Glassware drying rack, mounted above sink

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Computer and printer
	X		Built-ins (refer to special considerations)

D. Related Classroom

No. of Items	Contractor Provided	District Provided (FF&E)	Description
20		X	Combo desks
1		X	File cabinet, four-drawer, legal, lateral, lockable, chemical resistant top
12-20		X	Computer
4		X	Printer
1		X	Scanner
1		X	Computer and printer for teacher
2	X		Marker Board, 4' x 16', with map rail and flag holder
1-2	X		Tack Board, 4' x 4'
1		X	Smart Board (large)
1	X		80" w x 60" h Video Format Screen with black masking borders
1	X	X	Sound Field Enhancement
1	X	X	LCD Projector
1		X	Pencil sharpener, electric
1	X		Clock
1	X		Multimedia cabinet (refer to general considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR Combo
1		X	Document camera
1		X	Wireless laptop cart
	X		Built-ins (refer to special considerations)
1	X		Teacher demonstration table (refer to special considerations)

E. Outside Greenhouse & Outside Storage

No. of Items	Contractor Provided	District Provided (FF&E)	Description
4-6	X		Tables for plants
	X		Overhead watering system
2	X		Utility Tub/Sink
	X		Climate Control System
50-100		X	Work gloves
5-10	X		Hanging Tool Racks
12		X	Biltmore Sticks
6		X	Dibble
12		X	Tree Caliper, 50" diameter
6		X	Increment Borer
2		X	Diameter Tape
12		X	Hand pruners
5		X	Budding knife
		X	Hoses
		X	Sprinklers

No. of Items	Contractor Provided	District Provided (FF&E)	Description
5		X	Lopping Shears
8		X	Tooth rakes
8		X	Leaf rakes
8		X	Shovels
2		X	Post Hole Diggers
10		X	Wrench Set
12		X	Hammers
5		X	Wheelbarrow
		X	Miscellaneous Hand Tools
	X		Built-ins (refer to special considerations)

F. Outside Covered Patio

No. of Items	Contractor Provided	District Provided (FF&E)	Description
4	X		Outdoor Lab Tables that seat 4 students with electrical and water
5	X		Utility Tub/Sinks located on the wall
	X		Built-ins (refer to special considerations)

G. Machinery Storage & Outside Storage

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Tractor
		X	Cart and other accessories for the tractor
1		X	Truck
	X		Built-ins (refer to special considerations)

H. Student Storage & Tool Storage

No. of Items	Contractor Provided	District Provided (FF&E)	Description
50		X	Tool Totes
	X		Built-ins (refer to special considerations)

I. Locker (per)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
18	X		½ size lockers
2	X		Stainless steel mirror in each locker room
	X		Security mirrors
5	X		Towel hooks
1	X		Tack board, 4' x6'
1	X		Clock
	X		Built-ins (refer to special considerations)

Consult with SDPBC Program Management (Construction Liaison at-large) for additional Furniture, Fixtures and Equipment.

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

Refer to GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROL.

- A. **Heating/Cooling/Ventilation** - As required to meet District Standards.
1. **Laboratory:** Provide emergency exhaust system.
 2. **Material Storage:** Provide exhaust system to outside. Provide separate make-up air systems for occupied and unoccupied times.
 3. **Fume Hoods:** Provide vent to outside.
 4. **Flammable Storage:** Provide vent to outside.
 5. **Chemical Storage Cabinets:** Provide vent to outside.
 6. **Outdoor Greenhouse:** Provide Climate Control System.
 7. **Outside Covered Patio:** Ceilings fans will be determined by the Building Department.
- B. **Acoustical** - As required to meet District Standards.
- C. **Floor** - As required to meet District Standards. Laboratory shall have chemical and damage-resistant surface. Storage areas shall be chemical-resistant. Chemical storage room shall be treated concrete.
- D. **Walls** - As required to meet District Standards.
- E. **Ceiling** - As required to meet District Standards. The laboratory ceilings should be at a height of 12', minimum.
- F. **Lighting** - As required to meet District Standards. Provide lights in the Greenhouse and at the Outside Covered Patio.
- G. **Windows** - As required to meet District Standards. Provide observation window between material storage and laboratory and between the related classroom and laboratory.
- H. **Doors** - As required to meet District Standards. Provide large door(s) for the machinery storage for tractor and other large equipment. Provide large door(s) for the large equipment in the laboratory.
- I. **Water/Plumbing Fixtures** - As required to meet District Standards. Provide (HW) and (CW) at teacher station, material storage and chemical storage. Provide (CW) at student stations. Provide master shut-off valve for water. Provide cold water to the deluge shower and eye wash. Based on program furniture and equipment, provide water as required. Provide water at the tables and wall at the outside patio area. Also provided hose bibs at the Outside Covered Patio, Greenhouse and Laboratory.
- J. **Communications** - As required to meet District Standards. Provide PA system for the Greenhouse, Outside Covered Patio and Fields. Provide emergency call button in the

Outside Covered Patio and Greenhouse.

- K. Electrical** - As required to meet District Standards. 120 - volt electrical service shall be provided. Master shut-offs to all electrical outlets in an area shall be provided and located in a secure area near the demonstration areas in laboratories and near the exit doors of other areas, with the exception of the chemical storage room where the master shutoff will be located externally and marked. Heat and smoke detectors, per code, connected to central alarm system in laboratories and chemical storage room. Provide electrical outlets at student science tables. Provide electrical outlets in storage areas. Based on program furniture and equipment, provide electrical as required. Provide electric at the tables and wall at the outside covered patio area and greenhouse. Provide some high voltage electrical outlets at the computer stations in Laboratory.
- L. Instructional Technology** - As required to meet District Standards.
- M. Gas and Air** - As required to meet District Standards. Provide two gas lines at teacher station and at student stations. Provide compressed air, gas and water at teacher station and at student stations. Provide master shut-off valves for gas and compressed air. Based on program furniture and equipment, provide gas and compressed air as required.
- N. Safety** - As required to meet District Standards. Deluge shower, drain and eye bath (double spout wall fountain). One in laboratory and in chemical storage.
- O. Fencing** – As required to meet District Standards. Work with District staff on the height and location of fencing.
- P. Service Drives** – As required to meet District Standards. Locate Agriscience facilities near drive way(s) for deliveries.
- Q. Parking** - As required to meet District Standards.
- R. Built-ins**
1. **Laboratory** –
 - a. Provide and position counters with lockable cabinets below and glass-fronted cabinets above. Leave at least 2' of space between counter and upper cabinets to accommodate computers and other equipment.
 - b. Provide counter area for six (6) computers and fax machine. Each computer station shall be 6' in length for a total of 36' of counter. Electrical and data serve shall be located above counter. Provide open adjustable shelves above computer counter.
 - c. Bookcases, 30"H, adjustable shelves.
 - d. Provide microscope cabinet to house microscope (50), and stereoscopic microscope (15), lockable.
 - e. Provide teacher demonstration table, 72", permanent with sink, electrical, gas, air and data connections with above demonstration mirror. Counter top shall be acid-resistant.
 - f. Provide base cabinet with double sink adjacent to dishwasher in laboratory.

- g. Provide Multimedia cabinet – refer to General Considerations.

2. Material Storage –

- a. Provide acid-resistant counter on two walls with double, deep sink (2) with residue traps, full service (gas, air, electricity, water); lockable drawers and base cabinets with adjustable shelves.
- b. Provide wall cabinets, glass-front doors, lockable, with adjustable shelves on available wall space.
- c. Provide floor-to-ceiling, adjustable shelves, 12"D, on available wall space.

3. Flammable Storage –

- a. Provide stone top counter, approximately, 10', with acid-resistant sink and full service; lockable storage below and above.
- b. Provide 100 lineal feet, 14"D, chemical storage shelving, non-corrosive.
- c. Provide full-height, adjustable shelving on available wall space, with lip, non-corrosive, heavy-duty.

4. Related Classroom –

- a. Provide base cabinet with lockable doors and adjustable shelves and upper cabinets with lockable doors and adjustable shelves.
- b. Provide built-in bookcase, 5'L x 15"D x 40"H with adjustable shelves.
- c. Provide Multimedia cabinet and workstation– refer to General Considerations.

5. Machinery Storage –

- a. Provide full-height, adjustable shelving on available wall space, with lip, non-corrosive, heavy-duty.

6. Locker Room –

- a. Lockers shall be installed to insure that maximum utilization of room space is made. Locate as many lockers as possible on the walls of the locker rooms. Any and all rows shall be designed so that the instructors will have an unobstructed view of the lockers and dressing areas.
- b. Provide benches in front of lockers.

7. Greenhouse –

- a. Provide full-height, adjustable shelving on available wall space, with lip, non-corrosive, heavy-duty.

8. Outside Storage –

- a. Provide full-height, adjustable shelving on available wall space, with lip,

non-corrosive, heavy-duty.

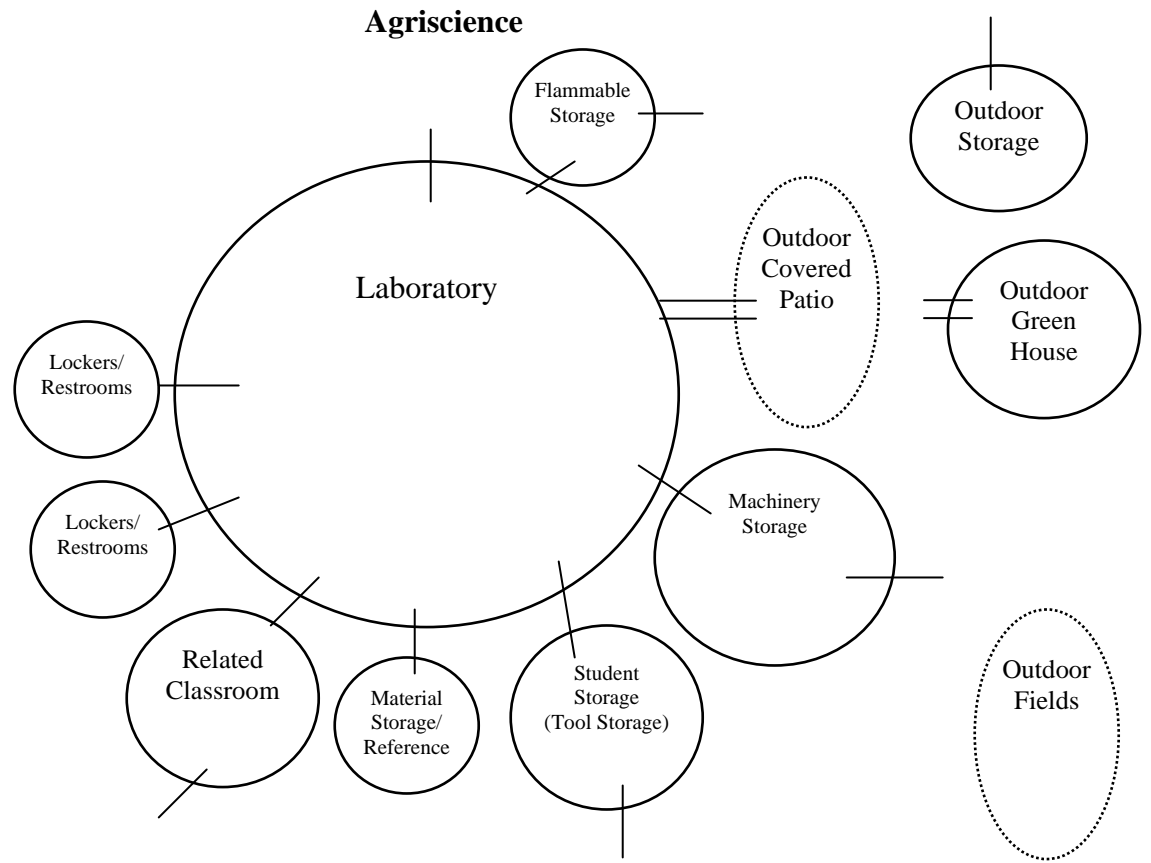
9. Student Storage -

- a. Provide lockable tote drawer cabinet for tool totes.
- b. Provide full-height, adjustable shelving on available wall space, with lip, non-corrosive, heavy-duty.

S. Other Considerations

1. Provide grease traps, where necessary.
2. Chemical storage to have outside wall in case of explosion.
3. Student activities take place in the perimeter areas of the laboratory. Laboratory shall require adequate standing height work surface.
4. A dispensing area located in the laboratory is necessary to issue supplies and equipment.
5. Provide electric, data and phone in material storage.

SPATIAL RELATIONSHIPS



AUTOMOTIVE – CAREER EDUCATION**I. PROGRAM PHILOSOPHY**

The automotive occupations program provides an opportunity for students to secure jobs and provides leadership training experiences in the automotive field.

II. PROGRAM GOALS

The purpose of this program is to prepare students for employment in the automotive industry and related fields, providing industry certification along with training.

III. PROGRAM ACTIVITIES

- A. Automotive Service Technology 1-12
- B. Auto Body Repair 1-9
- C. Diesel Engine Service 1-12

IV. ORGANIZATION NOMENCLATURE

Teacher - Student Ratio 1:20

Grade Levels for Which Program Is Intended 9 - 12

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

Extensive project based training.

VI. JUSTIFICATION FOR VARIANCE FROM THE STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.)

- A. Combine flammable storage from Auto Tech, Auto Body and Auto Tech/Diesel to create a separate flammable storage near the automotive career cluster and create a flammable storage and a material storage at the vehicle wash area with roof.
- B. Combine storage to create a paint booth in auto body laboratory.
- C. Create a clean room for auto tech/diesel laboratory from storage.
- D. Provide a fenced vehicle storage.
- E. Provide a vehicle wash area with roof.
- F. Provide a waste fluid storage area. This should be a separate area/building near the automotive career cluster.

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
Automotive							
246	1	Auto Tech Laboratory			4,000	20	20
808	1	Material Storage			100		
850	1	Tool Storage			195		
840	1	Related Classroom			680		
849	1	Project Storage			310		
		Subtotal			5,285		
-							
246	1	Auto Body Laboratory			4,000	20	20
808	1	Material Storage			100		
850	1	Tool Storage			195		
840	1	Related Classroom			680		
849	1	Project Storage			310		
272	1	Paint Booth			500		
		Subtotal			5,785		
-							
246	1	Auto Tech/Diesel Laboratory			4,000	20	20
808	1	Material Storage			100		
850	1	Tool Storage			195		
840	1	Related Classroom			680		
849	1	Project Storage			310		
272	1	Clean Room			310		
		Subtotal			5,595		
-							
Shared Areas							
818	2	Locker Room		225	450		
847	1	Flammable Storage			300		
		Subtotal			750		
		Total			17,415		60

VIII. PROGRAM FURNITURE AND EQUIPMENT**A. Auto Tech Laboratory (each bay)**

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Workbenches, 6'
1	X		Reels from ceiling for air and electric on side of each bay
1	X		Reels from ceiling for water and oil on side of each bay, where required
1	X		Above ground lift for each bay
		X	Various hand tools
		X	Various testing equipment

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X		Alignment equipment (located in one bay)
1	X		Eye wash stations
2	X		Double industrial sink
1	X		Fire Extinguisher
1	X		Fire Blanket
1	X		First aid kit, mounted
1	X		Clock
	X		Built-ins (refer to special considerations)

B. Auto Body Laboratory

No. of Items	Contractor Provided	District Provided (FF&E)	Description
2	X		Reels from ceiling for air and electric on side of each bay
1	X		Above ground lift for each bay
		X	Various hand tools
1	X		Paint booth equipment
1	X		Eye wash stations
2	X		Double industrial sink
1	X		Fire Extinguisher
1	X		Fire Blanket
1	X		First aid kit, mounted
1	X		Clock
	X		Built-ins (refer to special considerations)

C. Auto Tech/Diesel Laboratory

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X		Reels from ceiling for air, water and electric on side of each bay
1	X		Appropriate diesel lift for each bay
1	X		Diesel engine hoist
		X	Various hand tools
1	X		Various testing equipment
1	X		Eye wash stations
2	X		Double industrial sink
1	X		Fire Extinguisher
1	X		Fire Blanket
1	X		First aid kit, mounted
1	X		Clock
	X		Built-ins (refer to special considerations)

D. Related Classroom/Computer Lab

No. of Items	Contractor Provided	District Provided (FF&E)	Description
28		X	Workstation with wire management
2		X	File cabinet, four-drawer, legal, lateral, lockable
28		X	Chair, stackable
28		X	Computers
4		X	Printers
1		X	Computer and printer for teacher
2	X		Marker board, 4' x 8', with map rails and flag holder.
2	X		Tack Board, 4' x 4's.
1	X		80"w x 60"h Video Format Screen with black masking borders
1		X	Pencil sharpener, electric
2	X		Teacher storage cabinet, 36"W x 30"D x 72"H, with adjustable shelving, lockable
1	X		Fire Extinguisher
1	X		Fire Blanket
1	X		First aid kit, mounted
1	X		Clock
1	X		Multimedia cabinet (refer to General Considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

E. Equipment Storage at Covered Wash Area

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Trash Can
		X	Extension Cords
2		X	Step Ladder
		X	Air Hoses
		X	Buckets and sponges
		X	Wet/Dry Vacuum
		X	Air Compressor
		X	Brushes and squeegee
	X		Built-ins (refer to special considerations)

F. Flammable at Covered Wash Area

No. of Items	Contractor Provided	District Provided (FF&E)	Description
		X	Paints
		X	Paint Thinner
		X	Cleaning Agents

No. of Items	Contractor Provided	District Provided (FF&E)	Description
		X	Polishes
	X		Built-ins (refer to special considerations)

Consult with SDPBC Program Management (Construction Liaison at-large) for additional Furniture, Fixtures and Equipment.

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

Refer to GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROL.

- A. **Heating/Cooling/Ventilation** - As required to meet District Standards. Provide exhaust and venting system.
- B. **Acoustical** - As required to meet District Standards.
- C. **Floor** - As required to meet District Standards.
- D. **Walls** - As required to meet District Standards. Provide 1/2 wall between hallway and bay areas in laboratory.
- E. **Ceiling** – As required to meet District Standards. Provide 15’ or 18’ ceilings in laboratories, except 18’ or 20’ in marine laboratory.
- F. **Lighting** - As required to meet District Standards. A master switch shall be located near the laboratory entrance.
- G. **Windows** - As required to meet District Standards. Exterior windows provided in the laboratory areas shall have a means of light control. Provide observations windows between related classroom and computer room with laboratory.
- H. **Doors** - As required to meet District Standards. Provide roll-up exterior doors to laboratory that must be wide enough for delivery of supplies and movement of equipment, vehicles and boats.
- I. **Water/Plumbing Fixtures** - As required to meet District Standards.
 - 1. **Each Laboratory:**
 - a. Provide hose bibb at each bay.
 - b. Provide floor drains in center of laboratory
 - c. Provide water cooler, no electric eye drinking fountain.
 - 2. **Locker Room:** Provide water closet and lavatory (HW & CW). Provide soap and towel dispensers for each lavatory. Provide toilet tissue dispensers for each toilet.

3. Provide hose bibbs at the outside areas and covered wash area.
- J. Communications.** As required to meet District Standards.
- K. Electrical** - As required to meet District Standards. Provide electrical outlets every 6' above work benches in bays. Provide electrical reels on side of each bay, where required. Provide electrical outlets at the covered wash area for auto detailing equipment.
- L. Instruction Technology** - As required to meet District Standards.
- M. Gas and Air** - As required to meet District Standards. Provide compressed air systems with outlets in bays, where required and on reels, where required.
- N. Safety** - As required to meet District Standards. Particularly hazardous equipment shall be clearly designated by bright color.
- O. Fencing** - As required to meet District Standards. Provide enclosed vehicle storage and boat storage areas.
- P. Service Drives** - As required to meet District Standards. Easy access to back entrance for delivery of equipment and supplies.
- Q. Parking** – As required to meet District Standards.
- R. Built-ins** -
1. **Auto Tech Laboratory:**
 - a. Provide cabinets with doors with adjustable shelving, lockable.
 2. **Storage areas:**
 - a. Provide cabinets with doors with adjustable shelving, lockable.
 - b. Provide metal shelving with adjustable shelving.
 3. **Locker Room:**
 - a. Provide ½ high wall lockers (100)
 4. **Related Classroom/Computer:**
 - a. Provide base cabinet with doors, lockable and adjustable shelves, 34"H, and upper cabinets with doors, lockable and adjustable shelves.
 - b. Provide built-in bookcase, 5'L x 15"D x 40"H with adjustable shelves.

- c. Provide Multimedia cabinet and workstation - refer to General Considerations.

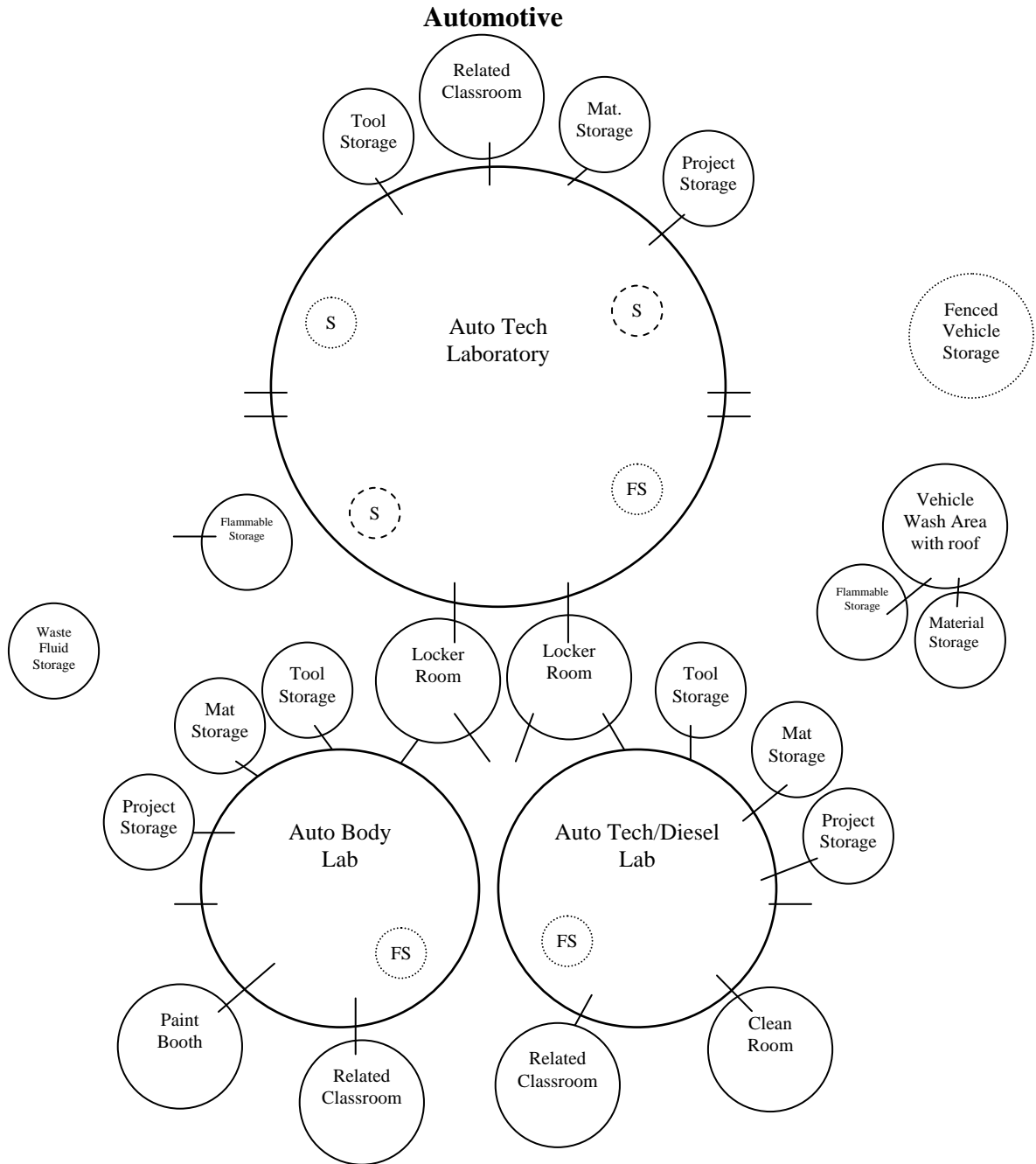
5. Covered Wash Area:

- a. Provide lockable cabinets for auto detailing equipment and supplies.

S. Other Considerations

1. Locate automotive bays on both side of the laboratory.

SPATIAL RELATIONSHIPS



S = Storage
FS = Flammable Storage

BIOTECHNOLOGY

I. PROGRAM PHILOSOPHY

Today's society requires scientifically literate and laboratory-skilled high school graduates. Therefore, it is imperative that they participate in a dynamic science education program with considerable laboratory opportunities. Such a program will encourage student understanding of the experimental nature of science, increase the level of students' technical skills, and enhance student enthusiasm with an emphasis in Biomedical/Biotechnology career exploration.

II. PROGRAM GOALS

- A. Maximize laboratory use and provide a laboratory-centered science experience for the specific use of students in a Biotechnology-based curriculum.
- B. Provide a laboratory program with the newest technologies to create pathways to careers in Biotechnology.
- C. To create one of the most advanced biotech programs in the country.
- D. To develop working partnerships with community organizations and create intern-ready students for working in biotech facilities.

III. PROGRAM ACTIVITIES

A. Courses Offered

- | | |
|----------------------------------|---|
| 1. Microbiology | 8. Botany |
| 2. Biology I, II, honors & AP | 9. Zoology |
| 3. Marine Science | 10. Astronomy |
| 4. Chemistry I, II, honors & AP | 11. Environmental Science |
| 5. Agriculture/Plant Genetics | 12. Ecology |
| 6. Science Research I - IV | 13. Computer Science/Information Technology |
| 7. Anatomy and Physiology R & AP | 14. Genetics |
| | 15. Manufacturing Processes |

Dual Enrollment Courses will be offered through the Distance Learning Center and opportunities for post-secondary articulation will be stressed.

The facilities must be adaptable to all these curricula. It is planned that all courses will be taught with an emphasis on investigation, research and it's applications

B. Teacher Activities

1. Conduct lecture/class discussion.
2. Demonstrate for single and double classes in lecture room.
3. Demonstrate on marker board, smart board and projector.
4. Plan, provide and lead laboratory activities.

5. Use ITV, videos, Closed-Circuit TV, etc.
6. Teach, test and remediate individuals, small and large groups.
7. Prepare students for science fair competitions.
8. Answer individual student questions.
9. Plan individually and departmentally.
10. Team teachers with single and double classes in teaching/lecture room.
11. Use models and charts.
12. Conduct outdoor instructional activities for classes and individual students.
13. Conduct Distance Learning Programs (Teacher and Student Centered).

C. Student Activities

1. Classroom/Laboratory

- a. Perform activities in small and large groups.
- b. Listen to lecture and participate in class discussions.
- c. Participate in Distance Learning activities.
- d. Participate in small group activities with display equipment, such as aquarium models and other apparatus for class projects not requiring laboratory facilities.
- e. Maintain animals and plants in an environment conducive to study.
- f. Plan, prepare, demonstrate, and exhibit science research projects for science fairs and student organizations.
- g. Utilize counter space to read earth science maps, operate computers, etc.
- h. Study and experiment individually.
- i. Perform experiments in a humid and light controlled environment.
- j. Perform scientific experiments in groups of two or three. These experiments will apply, prove and/or test basic theories which have been presented in the classroom.
- k. Use a variety of microscopes to observe specimens and project microscope images through the use of projectors.
- l. Utilize apparatus, equipment and perform scientific experiments requiring electricity, water, air, and gas.
- m. View ITV, and videos individually and in groups.
- n. Interface the computer with basic laboratory equipment.

IV. ORGANIZATIONAL NOMENCLATURE

Teacher - Student Ratio 1:25

Grade Levels for Which Program is Intended 9 - 12

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

A. Provide for inter- and intra-departmental Closed-Circuit TV which will allow for the transmission of appropriate lectures and demonstrations to selected classrooms/laboratories.

The opportunity for centralizing signal origination shall be available. Selective switching of programming to points of signal origination shall include the classroom/laboratories.

B. Community School utilization in science-related interest areas, e.g., Biotechnology, Agricultural and Manufacturing.

C. Science areas shall have a lockable, equipment maintenance room with hose bibbs to allow cleaning and storage of wet equipment after field trips.

D. The science laboratories shall be equipped for Biology, Chemistry, Physics, Agriculture and other related Science programs.

E. Provide for distance learning opportunities through a Distance Learning Center which will include document cameras and other video conference technology.

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.)

A. Technology Resource Room/Related Classroom shall be used as a Distance Learning Center.

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
Bio-Technology							
243	1	Laboratory #1			3,240		25
852	1	Technology Resource Center			1,200		
854	1	Darkroom			200		
810	1	Chemical Storage			<u>310</u>		
		Subtotal			4,950		
243	1	Laboratory #2			2,280		25
810	1	Material Storage			<u>260</u>		
		Subtotal			2,540		
243	1	Laboratory #3			2,280		25
810	1	Material Storage			<u>260</u>		
		Subtotal			2,540		

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
		Other Spaces					
841		Outside Greenhouse			800		
		TOTAL			10,830		

II. PROGRAM FURNITURE AND EQUIPMENT

A. Laboratory #1 & #2 (per lab)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
8	X		Lab tables to seat four students at each table; F.A.C.B.C. accessible, flat table top with acid resistant counter: no monitor well turret, enclosure or infrared remote keyboard; include double stainless steel sink (in center of the table), deep, with cover for when sink is not in use; exclude portable cabinet cubicles and upright clamp rod assembly; include cold water unicast fixture with gas, air, electric and data (no unimix H/C). Place electrical underneath the tables at the ends.
32		X	Student combo desks or tables with chairs
1		X	Teacher desk and chair
1		X	Laboratory Stool, adjustable back
32		X	Student Laboratory Stools
1		X	Activity table, 30"W x 72"L
1		X	File cabinet, four-drawer, legal, lateral, lockable, chemical resistant top
2		X	Laboratory cart, portable
1	X		Fume hood, permanent, vented to outside
1		X	Safety shield, (explosion shield) portable
1	X		Sterilizer for 40 safety goggles with lamp
1		X	Trash can, 25-gal., non-metal
1		X	Spark-resistant safety can for disposal of flammables
1		X	Dry chemical waste container
20		X	Microscope, 1000x oil immersion
40		X	Safety goggle and spill-control pillows
1		X	Sand bucket, 25 pounds
32		X	Student apron
1		X	Teacher Lab coat
1		X	Electronic Scale
1		X	Ultrasonic cleaner
1		X	Microviewers
1		X	Flex Cam
32		X	Triple-beam balance
1	X		Autoclave
4		X	Lanamar flow hood
1		X	Centrifuge
1		X	Deluxe Gel Electrophoresis apparatus
1		X	Transaluminators (UV box for DNA stain)
1		X	Dual Water baths – temp controlled
1		X	Large Spectrophotometer with both UV & IR capability

No. of Items	Contractor Provided	District Provided (FF&E)	Description
4		X	Spectrophotometers
1		X	Specialized DNA analysis software
1		X	DNA sequencing system
1		X	Microwave (large enough to hold 1 liter)
		X	Digital camera & video
		X	Vertical & horizontal gel boxes
		X	Bench top shakers (bacterial growth)
1		X	Incubator
1	X		Deluge shower and eye wash
1		X	Mobile agriculture station
2		X	PH machines (desk top)
2		X	PCR machine
		X	Digital camera(s)
		X	Micropipettor(s)
		X	Manufacturing Equipment (CNC Mills, Lathes, hydraulics, etc.)
1	X		Glassware drying rack, mounted
8	X		Refrigerator and microwave at end of each lab tables
1	X		Dishwasher, commercial grade
1	X		Double stainless steel sink adjacent to dishwasher
30		X	Computer (laptops)
4		X	Printer
1		X	Computer and printer for teacher
1	X		Chemical Storage Cabinet
2	X		Marker board, stackable, 4' x 16', with map rail and flag holder
2	X		Tack Board, 4' x 4'
1	X		80" w x 60" h Video Format Screen with black masking borders
1		X	Pencil sharpener, electric
	X		Fire extinguishers, per code
1	X		Fire blanket, wall-mounted
1	X		First Aid kit, wall mounted
1	X		Display cabinet, transparent front
1	X		Clock
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
1	X		Multimedia Cabinet (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
	X		Built-ins (refer to special considerations)
1	X		Teacher demonstration table (refer to special considerations)

B. Laboratory #3

No. of Items	Contractor Provided	District Provided (FF&E)	Description
		X	30 station Bio Tech computer based modular with electrical and data hook-ups
1		X	Teacher desk and chair
1		X	Laboratory Stool, adjustable back

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Activity table, 30"W x 72"L
32		X	Student desk combo
1		X	File cabinet, four-drawer, legal, lateral, lockable, chemical resistant top
2		X	Laboratory cart, portable
1		X	Trash can, 25-gal., non-metal
1		X	Spark-resistant safety can for disposal of flammables
1		X	Flex Cam and microscope
30		X	Triple-beam balance
30		X	Computer
4		X	Printer
1		X	Computer and printer for teacher
2	X		Marker board, stackable, 4' x 16', with map rail and flag holder
1		X	Smart Board, large in size
2	X		Tack Board, 4' x 4'
1	X		80"w x 60"h Video Format Screen with black masking borders
1	X		Deluge shower and eye wash
1		X	Pencil sharpener, electric
	X		Fire extinguishers, per code
1	X		Fire blanket, wall-mounted
1	X		First Aid kit, wall mounted
1	X		Display cabinet, transparent front
1	X		Clock
	X		Built-ins (refer to special considerations)
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
1	X		Multimedia cabinet (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X		Teacher demonstration table (refer to special considerations)
1		X	Mobile teacher demonstration table/cart with sink, electrical, data and overhead viewing mirror

C. Chemical Storage (shared between Lab #1 & Lab #2)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Trash can, 25-gal. capacity, non-metal
	X		Smoke detector, per code
	X		Exhaust fan, per code
	X		Fire extinguishers, per code
1	X		Fire blanket, wall-mounted
1	X		First Aid kit, wall mounted
1	X		Double stainless steel sink, deep
1	X		Glassware drying rack, mounted above sink
2		X	Stainless steel laboratory, cart
3	X		Fire proof steel storage cabinet (3), lockable -- one cabinet each for caustics, acids and flammables

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X		Fixed fume hood
	X		Built-ins (refer to special considerations)

D. Material Storage (shared between Lab #1 & Lab #2)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
2		X	Computer and printer
1	X		Refrigerator with ice maker, commercial, shared within department
1		X	Trash can, 25-gal. capacity, non-metal
2	X		Double stainless steel sink, deep
1	X		Glassware drying rack, mounted above sink
1	X		Ice maker, under cabinet
	X		Built-ins (refer to special considerations)

E. Material Storage (Lab #3)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Computer and printer
1		X	Trash can, 25-gal. capacity, non-metal
2	X		Double stainless steel sink
1	X		Glassware drying rack, mounted above sink
	X		Built-ins (refer to special considerations)

F. Technology Resource/Related Classroom (Distance Learning Center)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
	X		Counters for 30 computers set up in a tiered theater style for distance learning
1		X	Teacher desk and chair
30		X	Chair
1		X	File cabinet, four-drawer, legal, lateral, lockable, chemical resistant top
30		X	Computer
4		X	Printer
1		X	Computer and printer for teacher
1	X		Teacher storage cabinet, 36"W x 30"D x 72"H, with adjustable shelving, lockable
2	X		Marker Board, 4' x 16', with map rail and flag holder
1-2	X		Tack Board, 4' x 4'
1		X	Smart Board (large)
3	X		80"w x 60"h Video Format Screen with black masking borders
1			Camera to view document
2			Camera for distance learning system
1		X	Pencil sharpener, electric
1	X		Clock

No. of Items	Contractor Provided	District Provided (FF&E)	Description
	X		Built-ins (refer to special considerations)
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
1	X		Multimedia cabinet (refer to general considerations)
1	X		Teacher demonstration table (refer to special considerations)
1	X		Table/podium for central control of cameras and other equipment for the Distance Learning system

G. Darkroom

No. of Items	Contractor Provided	District Provided (FF&E)	Description
2	X		Double stainless steel sink
		X	UV Lighting System
	X		Built-ins (refer to special considerations)

H. Outside Greenhouse

No. of Items	Contractor Provided	District Provided (FF&E)	Description
	X		Tables for plants
	X		Overhead watering system
2	X		Utility Tub/Sink
	X		Climate Control System
	X		Built-ins (refer to special considerations)

I. Outside Covered Patio

No. of Items	Contractor Provided	District Provided (FF&E)	Description
4	X		Outdoor Lab Tables that seat 4 students with electrical and water
5	X		Utility Tub/Sinks located on the wall
	X		Built-ins (refer to special considerations)

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

Refer to GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROL.

A. Heating/Cooling/Ventilation - As required to meet District Standards.

1. **Laboratories:** Provide emergency exhaust system.
2. **Material Storage:** Provide exhaust system to outside. Provide separate make-up air systems for occupied and unoccupied times.
3. **Fume Hoods:** Provide vent to outside.
4. **Chemical Storage:** Provide vent to outside.

5. **Chemical Storage Cabinets:** Provide vent to outside.
 6. **Outdoor Greenhouse:** Provide Climate Control System.
- B. **Acoustical** - As required to meet District Standards.
 - C. **Floor** - As required to meet District Standards. Laboratories shall have chemical and damage-resistant surface. Storage areas and dark room shall be chemical-resistant. Chemical storage room shall be treated concrete. All laboratories shall have floor drains under the shower.
 - D. **Walls** - As required to meet District Standards.
 - E. **Ceiling** – As required to meet District Standards. The laboratory ceilings should be at a height of 12', minimum.
 - F. **Lighting** - As required to meet District Standards.
 - G. **Windows** – As required to meet District Standards. Provide observation window between material storage and laboratories. Provide observation window with blinds between darkroom and laboratory.
 - H. **Doors** - As required to meet District Standards.
 - I. **Water/Plumbing Fixtures** - As required to meet District Standards. Provide (HW) and (CW) at teacher station, material storage and chemical storage. Provide (CW) at student stations. Provide master shut-off valve for water. Provide cold water to the deluge shower and eye wash. Based on program furniture and equipment, provide water as required. Provide water at the tables and wall at the outside patio area. Also provided hose bibs at the outside patio area.
 - J. **Communications** - As required to meet District Standards.
 - K. **Electrical** - As required to meet District Standards. 120 - volt electrical service shall be provided. Master shut-offs to all electrical outlets in an area shall be provided and located in a secure area near the demonstration areas in laboratories and near the exit doors of other areas, with the exception of the chemical storage room where the master shutoff will be located externally and marked. Heat and smoke detectors, per code, connected to central alarm system in laboratories and chemical storage room. Provide electrical outlets at student science tables. Provide electrical outlets in storage areas and dark room. Based on program furniture and equipment, provide electrical as required. Provide electric at the tables and wall at the outside patio area. Provide some high voltage electrical outlets at the computer stations in Laboratory #1 and Laboratory #2 for future manufacturing equipment.
 - L. **Instructional Technology** - As required to meet District Standards.
 - M. **Gas and Air** - As required to meet District Standards. Provide two gas lines at teacher station and at student stations. Provide compressed air, gas and water at teacher station and at student stations. Provide master shut-off valves for gas and

compressed air. Based on program furniture and equipment, provide gas and compressed air as required. Provide air to clean room.

- N. **Safety** - As required to meet District Standards. Deluge shower, drain and eye bath (double spout wall fountain). One in each laboratory and in chemical storage.
- O. **Fencing** – As required to meet District Standards.
- P. **Service Drives** – As required to meet District Standards.
- Q. **Parking** - As required to meet District Standards.
- R. **Built-ins**
1. **Laboratory (#1 & #2)** –
 - a. Provide and position counters with lockable cabinets below and glass-fronted cabinets above. Leave at least 2' of space between counter and upper cabinets to accommodate computers and other equipment.
 - b. Provide counter area for six (6) computers, including phone modem and lock down capability. Each computer station shall be 6' in length for a total of 36' of counter. Electrical serve shall be located above counter.
 - c. Bookcases, 30"H, adjustable shelves.
 - d. Provide microscope cabinet to house microscope (60), and stereoscopic microscope (15), lockable.
 - e. Provide teacher demonstration table, 72", permanent with sink, water, electrical, gas, air and data connections with above demonstration mirror.
 - f. Provide base cabinet with double sink adjacent to dishwasher in laboratory.
 - g. Provide multimedia cabinet - refer to General Considerations.
 2. **Laboratory (#3)**
 - a. Bookcases, 30"H, adjustable shelves.
 - b. Provide teacher demonstration table, 72", permanent with sink, water, electrical, gas, air and data connections with above demonstration mirror.
 - c. Provide multimedia cabinet - refer to General Considerations.
 3. **Material Storage** – Provide acid-resistant counter on two walls with double, deep sink (2) with residue traps, full service (gas, air, electricity, water); lockable drawers and base cabinets with adjustable shelves. Provide wall cabinets, glass-front doors, lockable, with adjustable shelves on available wall space. Provide floor-to-ceiling, adjustable shelves, 12"D, on available wall space. Provide electric, data and phone.
 4. **Chemical Storage** – Provide stone top counter, approximately, 10', with acid-resistant sink and full service; lockable storage below and above. Provide 100 lineal feet, 14"D, chemical storage shelving, non-corrosive. Provide full-height, adjustable shelving on available wall space, with lip, non-corrosive.
 5. **Darkroom** – Provide counter on one wall with deep sink with residue traps,

lockable drawers and adjustable shelf base cabinets. Provide upper cabinets, lockable and adjustable shelves. Provide floor to ceiling, adjustable shelves, 12” D, on one wall.

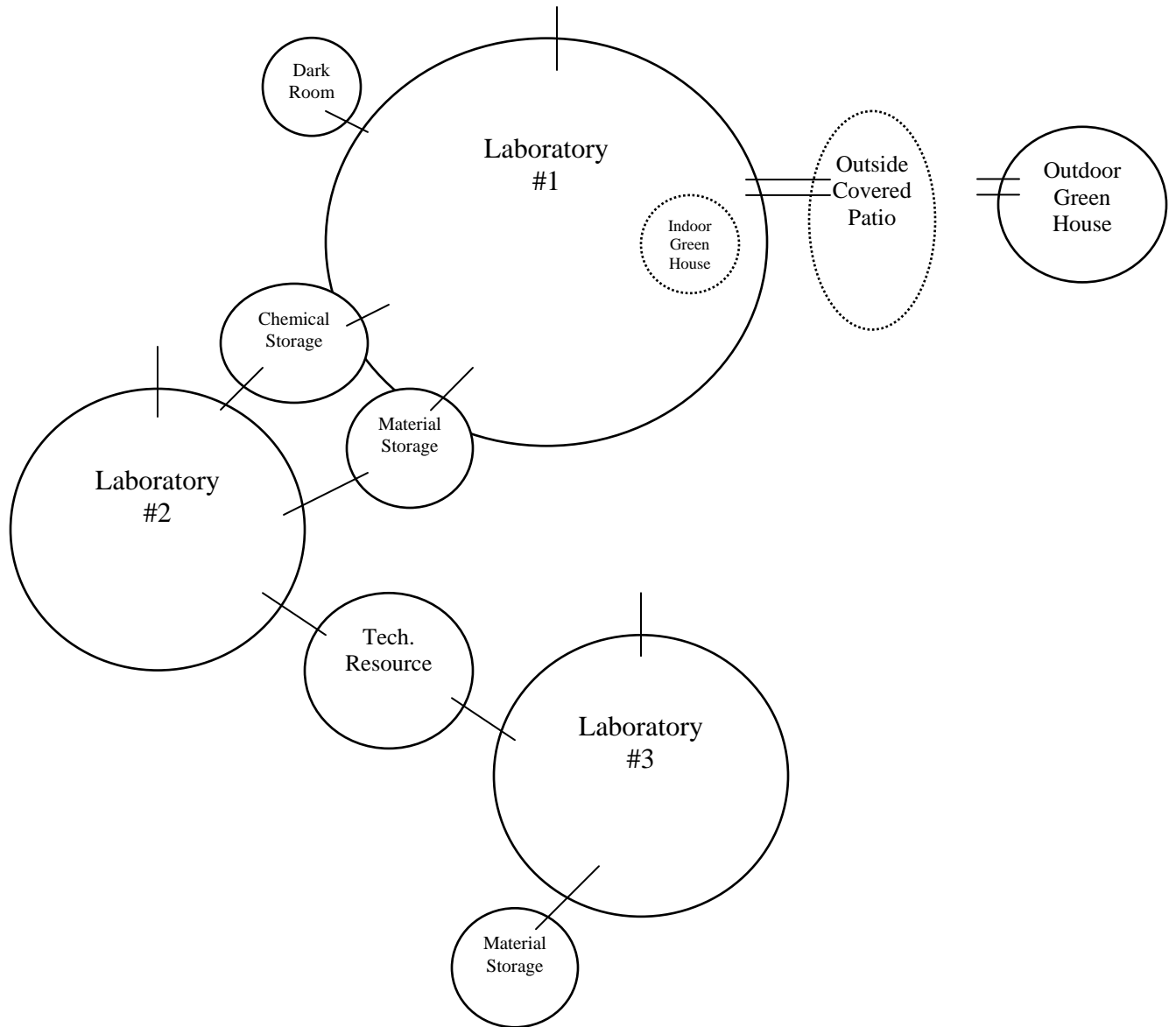
6. **Technology Resource Center (Distance Learning Center)** – Provide theater type seating and workspace for approximately 30 computer and students. The electrical and computer/data hook ups should be located below the counters. The counters shall have grommets for wire management.

S. Other Considerations

1. Provide grease traps, where necessary.
2. Chemical storage to have outside wall in case of explosion.
3. Student activities take place in the perimeter areas of the laboratory. Laboratory shall require adequate standing height work surface.
4. A dispensing area located in the laboratory is necessary to issue supplies and equipment.

SPATIAL RELATIONSHIPS

Bio-Technology



CONSTRUCTION – CAREER EDUCATION

I. PROGRAM PHILOSOPHY

The construction cluster includes the vocational programs of HVAC, electrical wiring, plumbing and construction provides an opportunity for students to secure jobs and provides leadership training experiences in these areas of the construction field.

II. PROGRAM GOALS

The purpose of this program is to prepare students for employment in these construction fields.

III. PROGRAM ACTIVITIES

- A. Carpentry/Cabinetmaking 1-7
- B. A/C, Heating & Refrigeration 1-7
- C. Plumbing & Pipe System 1-7
- D. Electricity 1-8

IV. ORGANIZATION NOMENCLATURE

Teacher - Student Ratio 1:25

Grade Levels for Which Program Is Intended 9 - 12

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

Senior projects and/or multiple construction projects throughout each year for up to four levels of studies simultaneously.

VI. JUSTIFICATION FOR VARIANCE FROM THE STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.)

- A. If two or more labs, combine laboratories to create one large laboratory with areas for each discipline.
- B. Provide a fenced area for a slab with roof to hold masonry walls from storage NSF.
- C. Provide a fenced area for a slab with roof to hold construction projects and supplies from storage NSF.

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
				Construction (Electrical/Construction/Masonry/Plumbing/HVAC)			
243	3	Laboratory		3,375	10,125	25	75
849	3	Project Storage		310	930		
851	3	Tool Storage		310	930		
852	3	Technology Resource		800	2,400		
		Subtotal			14,385		
		Shared Spaces					
847	1	Flammable Storage			375		
818	2	Locker Room		225	450		
272	1	Fenced area for a slab with roof to hold masonry walls			300		
272	1	Fenced area for a slab with roof to hold construction projects and supplies			300		
		Subtotal			1,425		
		TOTAL			15,810		75

VIII. PROGRAM FURNITURE AND EQUIPMENT

A. Electrical Wiring

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Workbenches, 6' with vices
		X	Various hand tools
1	X		Vices, mounted to floor
1	X		Eye wash stations
2	X		Double industrial sink
1	X		Fire Extinguisher
1	X		Fire Blanket
1	X		First aid kit, mounted
1	X		Clock
	X		Built-ins (refer to special considerations)

B. Construction/Carpentry

No. of Items	Contractor Provided	District Provided (FF&E)	Description
8		X	Workbenches, 6' with vices
		X	Various hand tools
		X	Various saws
1		X	Shop fans, portable, industrial size
2		X	Compressor
1	X		Eye wash stations
2	X		Double industrial sink

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X		Fire Extinguisher
1	X		Fire Blanket
1	X		First aid kit, mounted
1	X		Clock
	X		Built-ins (refer to special considerations)

C. Masonry

No. of Items	Contractor Provided	District Provided (FF&E)	Description
8		X	Workbenches, 6' with vices
		X	Various hand tools
		X	Various saws
1	X		Eye wash stations
2	X		Double industrial sink
1	X		Fire Extinguisher
1	X		Fire Blanket
1	X		First aid kit, mounted
1	X		Clock
	X		Built-ins (refer to special considerations)

D. Plumbing

No. of Items	Contractor Provided	District Provided (FF&E)	Description
8		X	Workbenches, 6' with vices
		X	Various hand tools
		X	Various saws
		X	Vices
1	X		Eye wash stations
2	X		Double industrial sink
1	X		Fire Extinguisher
1	X		Fire Blanket
1	X		First aid kit, mounted
1	X		Clock
	X		Built-ins (refer to special considerations)

E. HVAC

No. of Items	Contractor Provided	District Provided (FF&E)	Description
8		X	Workbenches, 6' with vices
		X	Various hand tools
		X	Various saws
1	X		Eye wash stations
2	X		Double industrial sink
1	X		Fire Extinguisher
1	X		Fire Blanket
1	X		First aid kit, mounted

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X		Clock
	X		Built-ins (refer to special considerations)

F. Technology Resource/Computer Lab

No. of Items	Contractor Provided	District Provided (FF&E)	Description
30		X	Workstation with wire management
2		X	File cabinet, four-drawer, legal, lateral, lockable
30		X	Chair, stackable
30		X	Computers
4		X	Printers
1		X	Computer and printer for teacher
2	X		Marker board, 4' x 8', with map rails and flag holder.
2	X		Tack Board, 4' x 4'
1	X		80" w x 60" h Video Format Screen with black masking borders
1		X	Pencil sharpener, electric
2	X		Teacher storage cabinet, 36"W x 30"D x 72"H, with adjustable shelving, lockable
1	X		Fire Extinguisher
1	X		Fire Blanket
1	X		First aid kit, mounted
1	X		Clock
1	X		Multimedia cabinet (refer to General Considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

Consult with SDPBC Program Management (Construction Liaison at-large) for additional Furniture, Fixtures and Equipment.

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

Refer to **GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROL.**

- A. Heating/Cooling/Ventilation** - As required to meet District Standards. Provide dust collecting system and exhaust system.
- B. Acoustical** - As required to meet District Standards.
- C. Floor** - As required to meet District Standards.
- D. Walls** - As required to meet District Standards.

- E. Ceiling** – As required to meet District Standards. Laboratory ceiling shall be 16' in height.
- F. Lighting** - As required to meet District Standards. A master switch shall be located near the entrance.
- G. Windows** - As required to meet District Standards. Exterior windows provided in the laboratory areas shall have a means of light control. Provide observation windows from related classroom into laboratory.
- H. Doors** - As required to meet District Standards. Doors to laboratory must be wide enough for delivery of supplies and movement of equipment; receiving door shall be 14' in height and 12' wide.
- I. Water/Plumbing Fixtures** - As required to meet District Standards
1. **Laboratory**: Provide floor drain and hose bibb (CW) in each section of laboratory, more in HVAC and plumbing laboratory.
 2. **Restroom**: Provide water closet and lavatory (HW & CW) and walk-in shower (F.A.C.B.C. accessible).
 3. Provide hose bibbs at the outside slab areas.
- J. Communications**. As required to meet District Standards.
- K. Electrical** - As required to meet District Standards. Electrical outlets shall be placed approximately every 6' around the laboratory area at standard height except for above the workbenches. Special outlets and wiring are provided for heavy equipment. **(Consult with SDPBC Program Management Construction Liaison at large for FF&E)** Spare circuits shall be provided for future needs. Area switches shall be provided for future needs. Provide 230 volt, 30 amp service and 50 amp service in HVAC and electrical laboratories. Provide drop down double outlets for and HVAC and electrical laboratories for equipment testing/service.
- L. Instruction Technology** - As required to meet District Standards.
- M. Gas and Air** - As required to meet District Standards. Provide compress outlets in laboratory.
- N. Safety** - As required to meet District Standards. Particularly hazardous equipment shall be clearly designated by bright color.
- O. Fencing** - As required to meet District Standards. Provide enclosed slab areas.
- P. Service Drives** - As required to meet District Standards. Easy access to back entrance for delivery of equipment and supplies.
- Q. Parking** – As required to meet District Standards.

R. Built-ins -

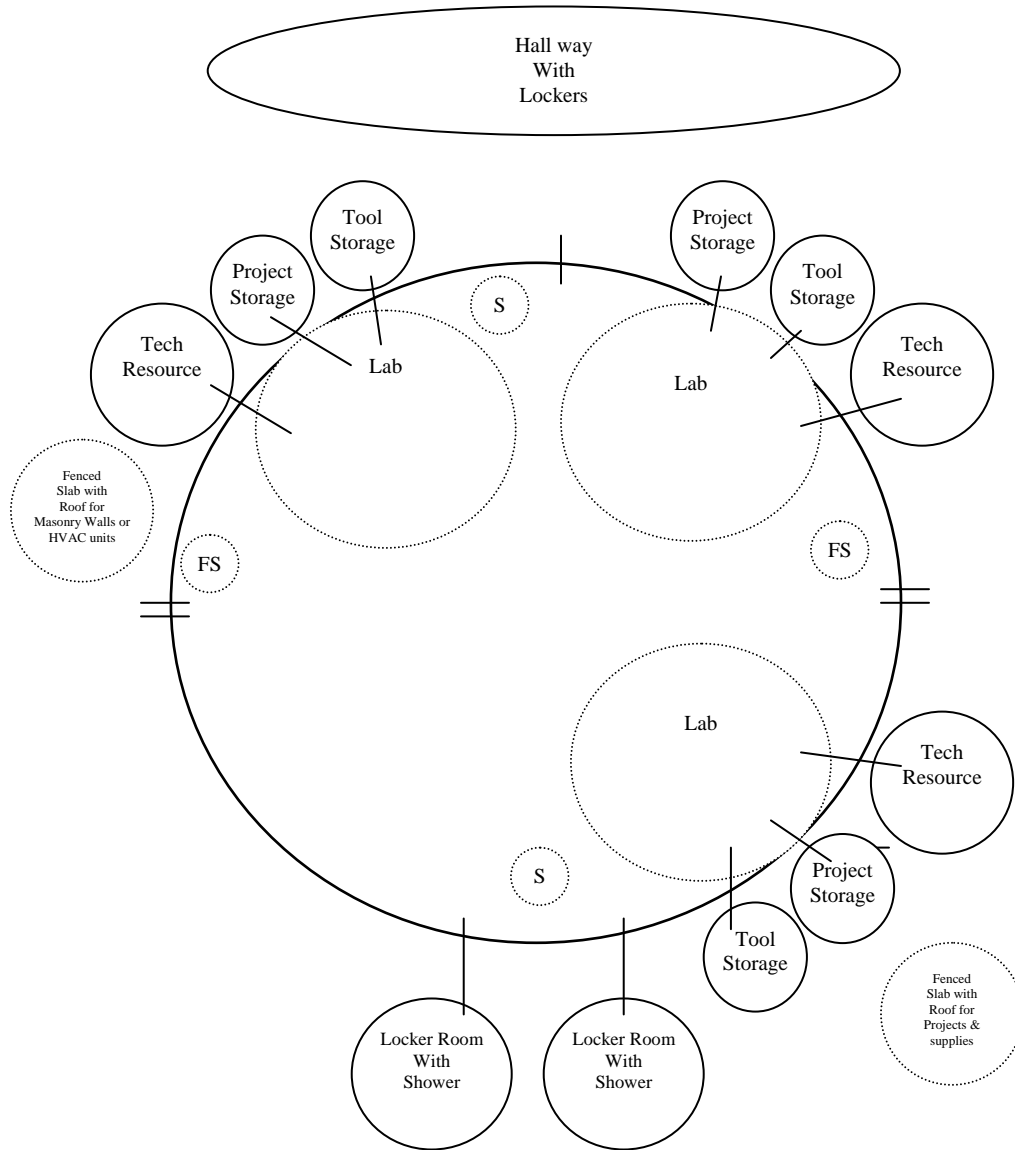
1. **Storage Rooms:** Provide metal shelving with adjustable shelving. Provide upper and base cabinets with adjustable shelving, lockable.
2. **Technology Resource/Computer:**
 - a. Provide base cabinet with doors, lockable and adjustable shelves, 34"H, and upper cabinets with doors, lockable and adjustable shelves.
 - b. Provide built-in bookcase, 5'L x 15"D x 40"H with adjustable shelves.
 - c. Provide Multimedia cabinet and workstation - refer to General Considerations.

S. Other Considerations –

Provide ½ high wall size lockers in the hallway outside of career cluster.

SPATIAL RELATIONSHIPS

Construction Academy



S = Storage
FS = Flammable Storage

COSMETOLOGY - CAREER EDUCATION

I. PROGRAM PHILOSOPHY

The cosmetology occupation program provides an opportunity for students to secure jobs and provides occupational experience in the cosmetology field through actually operational laboratory, cosmetology salon and barbering shop.

II. PROGRAM GOALS

The purpose of this program is to prepare students for employment as cosmetologists, nail technicians, barber and facial specialist or to prepare students for further education in the cosmetology field.

III. PROGRAM ACTIVITIES

- A. Cosmetology
- B. Facial Specialty
- C. Nail Specialty
- D. Barbering

IV. ORGANIZATIONAL NOMENCLATURE

Teacher - Student Ratio 1:20

Grade Levels for Which Program Is Intended 9 - 12

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

- A. Entrepreneurship, marketing and sales

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.)

- A. From one laboratory (1,800 NSF) create a Nail Laboratory (800 NSF) and Facial Laboratory (1,000 NSF)
- B. Create a reception area from storage.
- C. Create washer/dryer and linen storage from storage.
- D. Create a dispensary from storage.
- E. Create a kit storage from storage.
- F. Two laboratories shall be combined to create one large laboratory.

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
<u>Cosmetology</u>							
245	1	Laboratory (combine 2 into 1)		1,800	3,600	20	40
846	1	Reception Area			200		
245	1	Facial Laboratory			1,000	10	10
245	1	Nail Laboratory			800	10	10
840	2	Related Classroom		680	1,360		
840	1	Related Classroom/Computer Room			680		
849	4	Product Storage		310	1240		
272	1	Washer/Dryer & Linen Storage			450		
804	1	Dispensary			405		
810	1	Kit Storage			585		
822/823		Restrooms, public (from allotment)					
Total					10,320		60

VIII. PROGRAM FURNITURE AND EQUIPMENT

A. Laboratory

No. of Items	Contractor Provided	District Provided (FF&E)	Description
10	X		Barbering chairs with sinks
65	X		Cosmetology chairs
20	X		Drying chairs
30	X		Shampoo chairs
1	X		Fire Extinguisher
1	X		Fire Blanket
1	X		First aid kit, mounted
1	X		Clock
	X		Built-ins (refer to special considerations)

B. Teacher Observation

No. of Items	Contractor Provided	District Provided (FF&E)	Description
3		X	Chair
3		X	Computer and printer

C. Reception Area

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X		Reception desk
1		X	Computer and printer
1		X	Chair
5		X	Chairs for clients
1		X	Cash register
1	X		Clock
	X		Built-ins (refer to special considerations)

D. Facial Area

No. of Items	Contractor Provided	District Provided (FF&E)	Description
10		X	Facial beds
10	X		Facial Sinks
2	X		Make up chairs with mirror
		X	Chair for work on back
1	X		Teacher station for facial demonstration
1	X		Double sink with goose neck (HW and CW)
2	X		Marker board, 4' x 8', with map rails and flag holder.
2	X		Tack Board, 4' x 4'
1	X		80" w x 60" h Video Format Screen with black masking borders
1		X	Pencil sharpener, electric
2	X		Teacher storage cabinet, 36"W x 30"D x 72"H, with adjustable shelving, lockable
1	X		Clock
	X		Built-ins (refer to special considerations)

E. Nail Area

No. of Items	Contractor Provided	District Provided (FF&E)	Description
20	X		Nail stations with built-in venting and electrical outlets
20		X	Chairs
20		X	Overhead lights
		X	Chair for work on back
5		X	Pedicure stations, portable
5	X		Pedicure stations, built-in
1	X		Teacher station for nail/pedicure demonstration
1	X		Double sink with goose neck (HW and CW)
2	X		Marker board, 4' x 8', with map rails and flag holder.
2	X		Tack Board, 4' x 4'
1	X		80" w x 60" h Video Format Screen with black masking borders
1		X	Pencil sharpener, electric

No. of Items	Contractor Provided	District Provided (FF&E)	Description
2	X		Teacher storage cabinet, 36"W x 30"D x 72"H, with adjustable shelving, lockable
1	X		Clock
	X		Built-ins (refer to special considerations)

F. Related Classroom/Computer Room

No. of Items	Contractor Provided	District Provided (FF&E)	Description
20		X	Workstation with wire management
2		X	File cabinet, four-drawer, legal, lateral, lockable
20		X	Chair, stackable
20		X	Computers
4		X	Printers
1		X	Computer and printer for teacher
2	X		Marker board, 4' x 8', with map rails and flag holder.
2	X		Tack Board, 4' x 4'
1	X		80" w x 60" h Video Format Screen with black masking borders
1		X	Pencil sharpener, electric
2	X		Teacher storage cabinet, 36"W x 30"D x 72"H, with adjustable shelving, lockable
1	X		Fire Extinguisher
1	X		Fire Blanket
1	X		First aid kit, mounted
1	X		Clock
1	X		Multimedia cabinet (refer to General Considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

G. Washer/Dryer & Linen Storage

No. of Items	Contractor Provided	District Provided (FF&E)	Description
2	X		Washer, commercial, 50 lbs.
2	X		Dryer, commercial, 50 lbs.
		X	Towels, various sizes
		X	Sheets, various sizes
	X		Built-ins (refer to special considerations)

Consult with SDPBC Program Management (Construction Liaison at-large) for additional Furniture, Fixtures and Equipment.

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

Refer to **GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROL.**

- A. **Heating/Cooling/Ventilation** - As required to meet District Standards. Provide vent/exhaust system for nail laboratory.
- B. **Acoustical** - As required to meet District Standards.
- C. **Floor** - As required to meet District Standards.
- D. **Walls** - As required to meet District Standards.
- E. **Ceiling** – As required to meet District Standards.
- F. **Lighting** - As required to meet District Standards. Use natural light bulbs.
- G. **Windows** - As required to meet District Standards. Observation window from related classroom and computer room to laboratory.
- H. **Doors** - As required to meet District Standards.
- I. **Water/Plumbing Fixtures** - As required to meet District Standards.
 - 1. **Laboratory**: All sinks with HW and CW.
 - 2. **Restroom**: Provide water closet and lavatory (HW & CW).
 - 3. **Dispensary**: Double sink with goose neck (HW and CW)
- J. **Communications**. As required to meet District Standards. Two phone connections for outside calls in reception area. Phone jack in teacher observation area.
- K. **Electrical** - As required to meet District Standards. Provide electrical outlets (4 each) at each station in the laboratory for hair dryer, curling iron, etc.
- L. **Instruction Technology** - As required to meet District Standards.
- M. **Gas and Air** - As required to meet District Standards.
- N. **Safety** – As required to meet District Standards.
- O. **Fencing** – As required to meet District Standards.
- P. **Service Drives** - As required to meet District Standards. Easy access to driveway and parking lot for customers.
- Q. **Parking** - As required to meet District Standards. Space (50) provided for customers.

R. Built-ins -

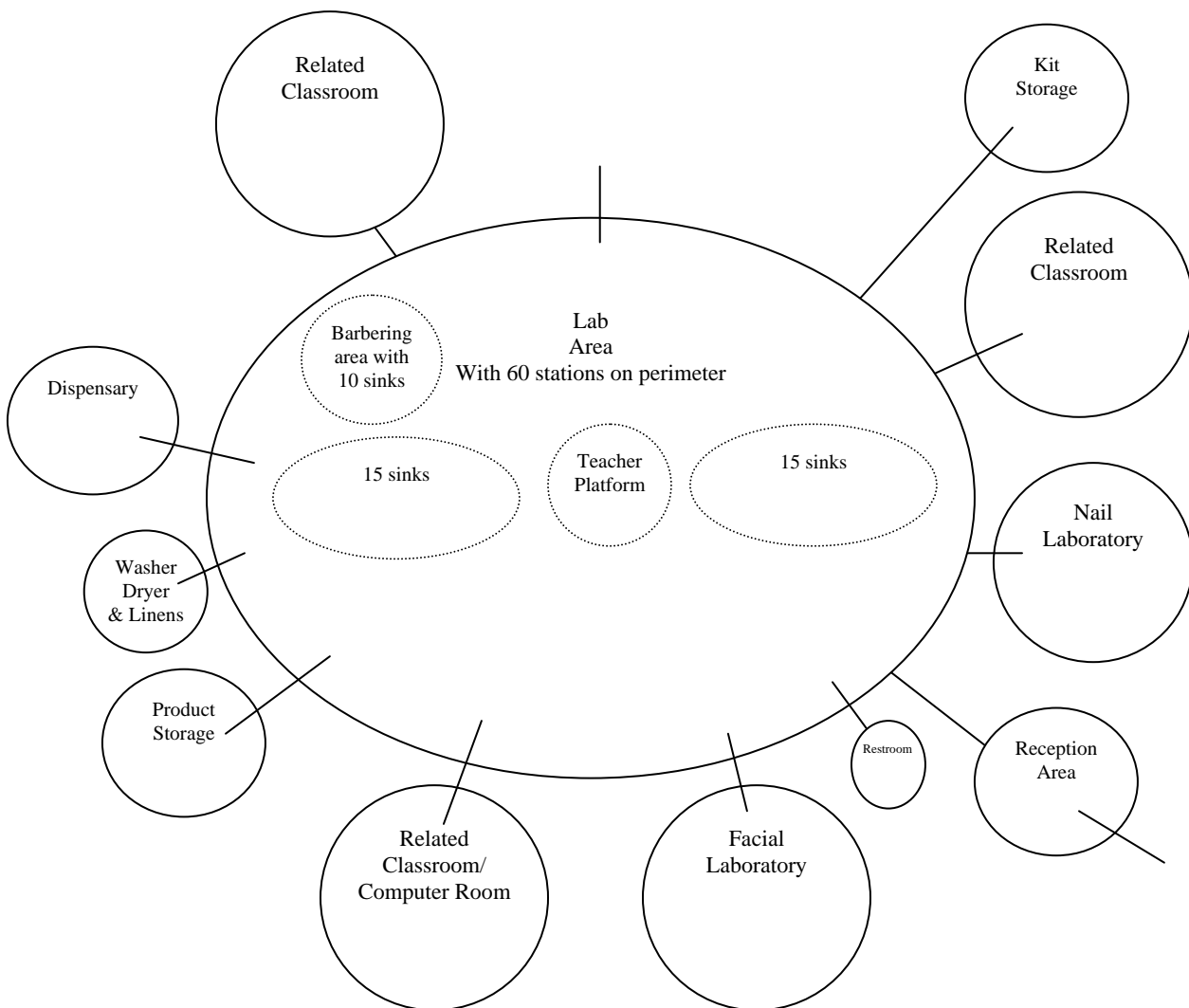
1. **Reception Area**: Provide reception desk with adjustable shelving, lockable display case. Desk should have lockable drawers. Provide display case, lockable, adjustable shelving on wall.
2. **Nail Laboratory**: Provide built-in lockable storage with adjustable shelving. Provide lockable flammable storage cabinet. Provide counter and sink area with adjustable shelving, lockable cabinets. Provide display case, lockable, adjustable shelving.
3. **Facial Laboratory**: Provide built-in lockable storage with adjustable shelving. Provide lockable flammable storage cabinet. Provide counter and sink area with adjustable shelving, lockable cabinets. Provide display case, lockable, adjustable shelving.
4. **Computer Room**: Provide base cabinet with doors, lockable and adjustable shelves, 34"H, and upper cabinets with doors, lockable and adjustable shelves. Provide built-in bookcase, 5'L x 15"D x 40"H with adjustable shelves. Provide Multimedia cabinet and workstation – refer to General Considerations.
5. **Product Storage**: Provide metal adjustable shelving and along perimeter (12" depth) and interior (24" depth).
6. **Dispensary**: Provide base cabinets with upper shelving on the wall. Provide flammable storage. Provide base cabinet with sink with upper shelving
7. **Kit storage**: Provide metal adjustable shelving and along perimeter (30" depth) and interior (30" depth).
8. **Laboratory**: Provide built-in cosmetology stations with cabinets, mirrors, electrical and hole in counter for curling iron and dryer. Provide built-in barbering stations with cabinets, mirrors, electrical and wet booth. Sink area with product storage on back of sinks and storage cabinets to hold towels on the sides.
9. Provide teacher platform with built-in desk with lockable drawers.

S. Other Considerations

1. Provide ½ high wall lockers on the outside corridor for student's equipment, i.e. mannequin.

SPATIAL RELATIONSHIPS

Cosmetology



CRIMINAL JUSTICE – CAREER EDUCATION**I PROGRAM PHILOSOPHY**

The Criminal Justice Operations program is designed to introduce students to the criminal justice system. The program concentrates on producing responsible citizens, who through this training may pursue employment in law enforcement, the court system and/or corrections field. Upon successful completion of the program, students are prepared for employment as Police Service Aides, and may choose further specialized training in law enforcement, post secondary academy programs or college/university.

II. PROGRAM GOALS

- A. To strengthen character and citizenship.
- B. To develop leadership skills.
- C. To stress self-discipline, order, respect for authority and motivation to achieve through teamwork.
- D. To increase awareness of the broad career opportunities available in the criminal justice field and related professions.
- E. To provide a comprehensive academic program, to include visits to criminal justice sites in the community.
- F. Engage in discussions with practicing criminal justice professionals.
- G. To promote and enhance a positive image of law and law enforcement.
- H. To provide students who are interested in the criminal justice field the opportunity to share common goals and experiences with their peers.
- I. To promote involvement with the total school program.
- J. To establish on-going partnerships with the criminal justice community and educational institutions for authentic “field” experiences.

III. PROGRAM ACTIVITIES

- A. Develop latent fingerprints.
- B. Listen to lectures, discussions, police radios, communications, commercial radio, television, video tape, CD Rom Laser, guests, classmates, teachers and tape recordings.
- C. View films, filmstrips, picture, crime scenes, charts, maps, evidence.
- D. Read text materials, reference books, reports, investigative reports, newspapers, criminal justice journals and magazines.
- E. Inspect crime scene displays, tissue, blood stains, fingerprints, potential evidence involving glass, clothing, paint, tire impressions, footprints and body impressions.
- F. Make booklets, displays, posters, scrapbooks, bulletin boards, maps, replicas, sketches, court documents, investigative reports.
- G. Visit local law enforcement agencies, correctional facilities and court buildings and institutions.
- H. Write reports, summaries, probable cause affidavits, search warrants.
- I. Apply creative thinking, deductive reasoning and make logical deductions.

Students will be involved in four separate criminal justice courses, namely Criminal Justice Operations 1,2 and 3. Students will be sitting in desks, working a computer terminals, designated crime scene investigation areas and center island on special teacher directed projects.

Criminal Justice Operation I

This course is designed to introduce students to the fields of law enforcement, the court system and the corrections systems. The content includes career opportunities in these fields, court system, correctional system, interpersonal and communication skills and employability skills.

Criminal Justice Operations II

The course is designed to develop competencies in patrol, traffic control, defensive tactics and physical proficiency skills and first aid to include cardiopulmonary resuscitation skills.

Criminal Justice Operations III

This course is designed to develop competencies in crime and accident investigation procedures, forensic science tasks, crime prevention and property control procedures.

Public Service Education Directed Study

This course is designed to provide students with additional competencies in the criminal justice program to enhance their opportunities for employment in an occupation chosen by the student.

IV. ORGANIZATIONAL NOMENCLATURE

Teacher - Student ratio: 1:20

Grade levels for which program is intended: 9-12

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USE

- A. Crime scene investigations require an isolated, limited access area for a number of classes to examine, document and analyze investigative cases.
- B. Computer terminals against interior wall to encourage usage of cost-effective technological and provide data when conducting investigations.
- C. Develop and classify fingerprint impressions in order to determine the identity of person being eliminated or included as suspects in a criminal investigation.
- D. Running water and soap dispensers in the classrooms to clean students instruments and hands after handing materials in class.

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.)

N/A

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
<u>Criminal Justice</u>							
263	1	Laboratory			1,300	20	20
810	1	Material Storage			395		
840	1	Related Classroom			680		
		Total			2,375		20

I. PROGRAM FURNITURE AND EQUIPMENT

A. Laboratory

No. of Items	Contractor Provided	District Provided (FF&E)	Description
20		X	Student desk and chair
10-12		X	Work table with wire management for 20-24 stations with electric & data
2		X	Lectern, rollaway
12		X	Computer workstation with wire management
20		X	Computer chair
1		X	File cabinet, four-drawer, legal, lateral, lockable
12		X	Computer
2		X	Printer
1		X	Computer and Printer for teacher
1		X	Fingerprint station
1	X		Large deep double stainless steel sink with gooseneck facets (HW/CW)
2	X		Marker board, 4' x 16', with map rail and flag holder
2	X		Tack Board, 4' x 4'
1	X		80" w x 60" h Video Format Screen with black masking borders
1		X	Pencil sharpener, electric
1	X		First aid kit, mounted
1	X		Clock
1	X		Multimedia cabinet (refer to General Considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

B. Related Classroom

No. of Items	Contractor Provided	District Provided (FF&E)	Description
20		X	Student desk and chair
2		X	Lectern, rollaway
12		X	Computer workstation with wire management
20		X	Computer chair
1		X	File cabinet, four-drawer, legal, lateral, lockable
12		X	Computer
2		X	Printer
1		X	Computer and Printer for teacher
2	X		Marker board, 4' x 8', with map rail and flag holder
2	X		Tack Board, 4' x 4'
1	X		80" w x 60" h Video Format Screen with black masking borders
1		X	Pencil sharpener, electric
1	X		Clock
1	X		Multimedia cabinet (refer to General Considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

Consult with SDPBC Program Management (Construction Liaison at-large) for additional Furniture, Fixtures and Equipment.

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

Refer to **GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROL.**

- A. Heating/Cooling/Ventilation** - As required to meet District Standards.
- B. Acoustical** - As required to meet District Standards.
- C. Floor** - As required to meet District Standards.
- D. Walls** - As required to meet District Standards.
- E. Ceiling** - As required to meet District Standards.
- F. Lighting** - As required to meet District Standards.
- G. Windows** - As required to meet District Standards. Provide observation window between material storage and laboratory.
- H. Doors** - As required to meet District Standards.

- I. **Water/Plumbing Fixtures** - As required to meet District Standards. Provide fingerprint station in laboratory with a large deep double stainless steel sink with gooseneck facets (HW/CW). Provide paper towel dispenser at sink.
- J. **Communications** - As required to meet District Standards. Provide outside phone line and fax line in the teacher planning area. Two phone lines in addition to standard system. Set up electric and data for “daisy” chain “U” set up for work station.
- K. **Electrical** - As required to meet District Standards. Provide outlets for all computers and technical equipment in laboratory and related space. Provide electrical outlets, computer outlets and lighting for center island teacher/student workstation.
- L. **Instructional Technology** - As required to meet District Standards.
- M. **Gas and Air** - As required to meet District Standards.
- N. **Safety** – As required to meet District Standards.
- O. **Fencing** - As required to meet District Standards.
- P. **Service Drives** – As required to meet District Standards.
- Q. **Parking** - As required to meet District Standards.
- R. **Built-ins**
 - 1. **Built-in Work/Storage**
 - a. **Laboratory**
 - (1) Provide wall and base cabinets, 34”h with adjustable shelves, lockable.
 - (2) Provide lockable storage cabinets to house fingerprinting and photography equipment and microscopes above the fingerprint station and near the sink.
 - (3) Provide Multimedia cabinet and workstation - refer to General Considerations.
 - b. **Related Space**
 - (1) Provide wall and base cabinets, 34”h with adjustable shelves, lockable.
 - (2) Provide computer counter to accommodate four (4) computers and two (2) printers (14’ W x 30”D). The counter shall have grommets for wire management.

- (3) Provide Multimedia cabinet and workstation - refer to General Considerations.

c. **Material Storage**

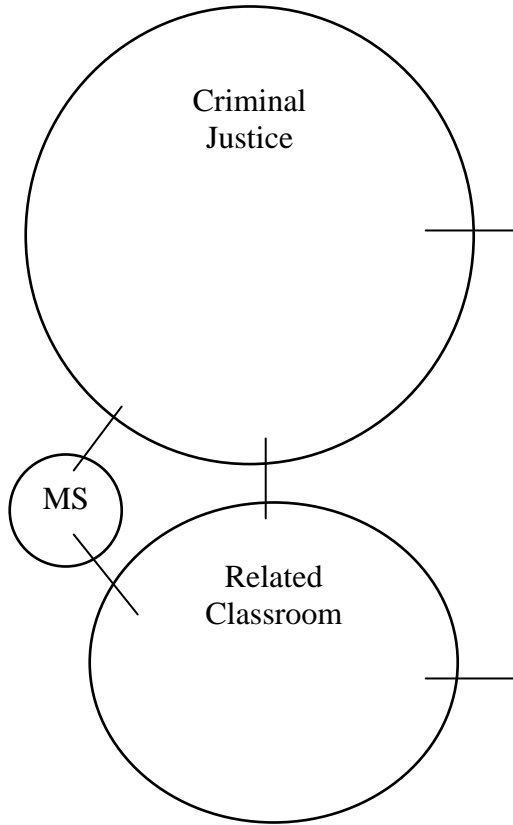
- (1) Provide adjustable shelving and hanging space for 200 uniforms: shirts, trousers, windbreakers, etc.
- (2) Provide shelving, adjustable (10), 36"W x 18"D, full height, for textbooks and supplies.

S. **Other Considerations** –

1. Provide electric, data and phone in material storage.

SPATIAL RELATIONSHIPS

Criminal Justice



MS = Material Storage

DIVERSIFIED COOPERATIVE TECHNOLOGY (DCT) - CAREER EDUCATION

I. MAJOR CONCEPTS/CONTENT

The purpose of this program is to provide students with selected occupational skills through employment related instruction and paid, on the job training supervised by the employer and teacher/coordinator.

II. PROGRAM GOALS

Employment related instruction is in-school instruction which develops competencies in health, safety, and environmental issues; professional, legal, and ethical issues; finance; leadership skills; communication skills; labor and human resource issues; economics; entrepreneurship; career planning; underlying principles of technology; management; and technical and production skills. Also, supervised on-the-job training provides opportunities for planned instructional activities and student evaluations in a specified job setting.

III. PROGRAM ACTIVITIES

DCT – Principle
DCT – Application
DCT Level 1-3
Work Experience Level 1-4

IV. ORGANIZATIONAL NOMENCLATURE

Teacher - Student Ratio 1:20
Grade Levels for Which Program Is Intended 9 - 12

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

Cooperative vocational education programs are designed to prepare students with wide variances in abilities for a broad range of occupational clusters. The cooperative program serves as an incentive for some students to complete their education.

VI. JUSTIFICATION FOR VARIANCE FROM S.R.E.F. REQUIREMENTS

N/A

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
<u>Distributive Education</u>							
222	1	Laboratory			900		20
808	1	Material Storage			100		
812	1	Project Storage			150		
840	1	Related Classroom			680		
		Total			1,830		20

VIII. PROGRAM FURNITURE AND EQUIPMENT**A. DCT Laboratory & Related Classroom**

No. of Items	Contractor Provided	District Provided (FF&E)	Description
30		X	Student desk and chair
10		X	Computer table
1		X	File cabinet, four-drawer, legal, lateral, lockable
1		X	Table, 30" x 72"
1		X	Lectern
1		X	Deluxe magazine display, approximately 48" x 24" x 28"
1		X	Stool
1	X		Mirror, wall mounted
2	X		Marker board, 4' x 16', with map rails and flag holder
2	X		Tack Board, 4' x 4'
1	X		80"w x 60"h Video Format Screen with black masking borders
10		X	Computers
2		X	Printers
1		X	Computer and printer for teacher
1		X	Pencil sharpener, electric
1	X		Sink, single, stainless steel
1	X		Clock,
1	X		Multimedia cabinet (refer to General Considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

Consult with SDPBC Program Management (Construction Liaison at-large) for additional Furniture, Fixtures and Equipment.

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

Refer to GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROL.

- A. **Heating/Cooling/Ventilation** - As required to meet District Standards.
- B. **Acoustical** - As required to meet District Standards.
- C. **Floor** - As required to meet District Standards.
- D. **Walls** - As required to meet District Standards.
- E. **Ceiling** - As required to meet District Standards.
- F. **Lighting** - As required to meet District Standards.
- G. **Windows** - As required to meet District Standards. Provide observation window between project storage and laboratory.
- H. **Doors** - As required to meet District Standards.
- I. **Water/Plumbing** - As required to meet District Standards.
- J. **Communications** - As required to meet District Standards.
- K. **Electrical** - As required to meet District Standards.
- L. **Instructional Technology** - As required to meet District Standards.
- M. **Gas and Air** - As required to meet District Standards.
- N. **Safety** - As required to meet District Standards.
- O. **Fencing** - As required to meet District Standards.
- P. **Service Drives** - As required to meet District Standards.
- Q. **Parking** - As required to meet District Standards.
- R. **Built-ins**
 1. Provide base cabinet with doors, lockable and adjustable shelves, 34"H, and upper cabinets with doors, lockable and adjustable shelves.
 2. Provide built-in bookcase, 5'L x 15"D x 40"H with adjustable shelves.
 3. Provide Multimedia cabinet and workstation - refer to General Considerations.
 4. Provide cabinet (48"w x 18"d x 80"h) with lockable doors and adjustable shelves in project storage.

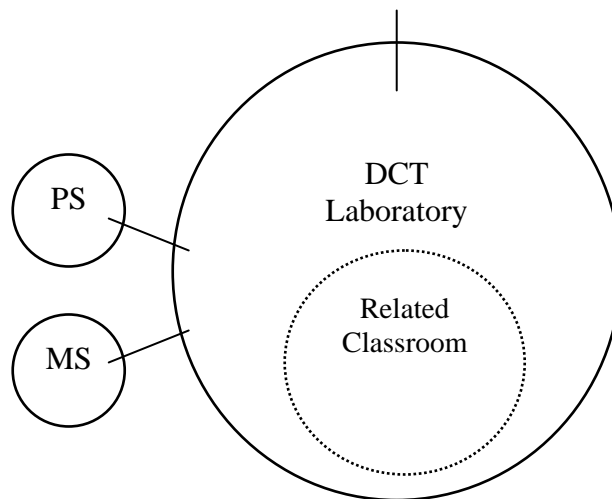
5. Provide metal shelving with adjustable shelves on two walls in material storage.

S. **Other Considerations** -

1. Provide electric, data and phone in project storage.

SPATIAL RELATIONSHIPS

Diversified Cooperative Technology (DCT) Education



MS = Material Storage
PS = Project Storage

EQUINE ACADEMY/PRE-VETERINARY PROGRAM

I. PROGRAM PHILOSOPHY

Today's society requires scientifically literate and laboratory-skilled high school graduates. Therefore, it is imperative that they participate in a dynamic science education program with considerable laboratory opportunities. Such a program will encourage student understanding of the experimental nature of science and expose students to a highly motivating, intensive and rigorous applied science education with specific expertise in veterinary science.

II. PROGRAM GOALS

- A. Maximize laboratory use and provide a laboratory-centered science experience for all students.
- B. To expose students to a wide range of veterinary/equine related employment opportunities upon high school graduation.
- C. Draw upon the extensive equine veterinary expertise that exists in our community.
- D. Foster a strong partnership with the equestrian community and local community leaders.
- E. Graduates of the Pre-Vet Academy will be highly competitive in the collegiate arena due to their exposure to state of the art facilities, technology and best practices.
- F. Provide expertise for students to be among the most competitive science applicants within the full spectrum of science related educational programs at the university level.

III. PROGRAM ACTIVITIES

A. Teacher Activities

- 1. Conduct lecture/class discussion.
- 2. Demonstrate for single and double classes in lecture room.
- 3. Demonstrate on marker board and with overhead projector.
- 4. Plan, provide and lead laboratory activities.
- 5. Use ITV, films, Closed-Circuit TV, etc.
- 6. Teach, test and remediate individuals, small and large groups.
- 7. Prepare students for science fair competitions.
- 8. Answer individual student questions.
- 9. Plan individually and departmentally.
- 10. Team two teachers with single and double classes in teaching/lecture room.

11. Use models, charts and whiteboard
12. Conduct outdoor instructional activities for classes and individual students.

B. Student Activities

1. Classroom/Laboratory

- a. Perform activities in small and large groups.
- b. Listen to lecture and participate in class discussions.
- c. Watch audio-visual and ITV presentations
- d. Participate in small group activities with display equipment, such as aquarium models and other apparatus for class projects not requiring laboratory facilities.
- e. Maintain animals and plants.
- f. Observe specimens under a microscope.
- g. Plan, prepare, demonstrate, and exhibit science fair projects.
- i. Perform activities which involve the use of gas, water, air and electricity.
- i. Utilize counter space to read earth science maps, operate computers, etc.
- j. Study and experiment individually.
- k. Collect and identify rocks, minerals and soil.
- l. Perform scientific experiments in groups of two or three. These experiments will apply, prove and/or test basic theories which have been presented in the classroom.
- m. Use a variety of microscopes.
- n. Utilize apparatus and equipment in performing scientific experiments requiring electricity, water, air, and gas.
- o. View ITV, films, and/or videos individually and in groups.
- p. Interface the computer with basic laboratory equipment.

IV. ORGANIZATIONAL NOMENCLATURETeacher - Student Ratio 1:25Grade Levels for Which Program is Intended 9 - 12**V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES**

- A. Provide for inter- and intra-departmental Closed-Circuit TV which will allow for the transmission of appropriate lectures and demonstrations to selected classrooms/laboratories.

The opportunity for centralizing signal origination shall be available. Selective switching of programming to points of signal origination shall include the classroom/laboratories.

- B. Community School utilization in science-related interest areas, e.g., electricity, astronomy.
- C. Science areas shall have a lockable, equipment maintenance room with hose bibb to allow cleaning and storage of wet equipment after field trips.

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.)

- A. Chemical Storage of 400 NSF is necessary to meet the current state safety standards for the storage of chemicals and for the preparation of chemicals for laboratory use.
- B. Four labs will be used as Chemistry laboratories.

VII. PROGRAM FACILITIES LIST

Design Code	Space	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
Equine Academy/Pre-Veterinary Programs							
023	12	Science Demonstration/Classroom		1,300	15,600	25	300
808	12	Material Storage		150	1,800		
		Subtotal			17,400		
012	1	Computer Laboratory (Distance Learning)			1,200	25	25
808	1	Material Storage		45	45		
		Subtotal			1,245		
810	2	Chemical Storage		400	800		
		TOTAL			19,445		325

II. PROGRAM FURNITURE AND EQUIPMENT

A. Laboratory (per lab)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
4-6	X		Tables to seat 6-8 students at each table; F.A.C.B.C. and F.A.C.B.C. accessible, flat table top (acid resistant) to include gas, air, water and sink(s) with sink cover; electric on aisle side of tables away from sink, and electric & data on wall side of tables.
1		X	Teacher chair
1		X	Laboratory Stool, adjustable back
1		X	Table, 30"W x 72"L
32		X	Chair
1		X	File cabinet, four-drawer, legal, lateral, lockable, chemical resistant top
1	X		Examination Table with electric and data
2		X	Laboratory cart, portable
1	X		Fume hood, permanent, vented to outside, in each chemistry lab
1		X	Safety shield, (explosion shield) portable
1		X	Sterilizer for safety goggles with lamp
1		X	Trash can, 25-gal., non-metal
1		X	Spark-resistant safety can for disposal of flammables
1		X	Dry chemical waste container
16		X	Microscope
40		X	Safety goggle and spill-control pillows
1		X	Sand bucket, 25 pounds
30		X	Student apron
1		X	Teacher Lab coat
1		X	Electronic Scale
1		X	Ultrasonic cleaner
1		X	Microviewers
1		X	Flex Cam
25		X	Triple-beam balance
1		X	Stream table, portable
1		X	Weather station with Barograph, Thermograph, etc.
4	X		Microwaves
4	X		Sinks, stainless steel, large, deep
8	X		Sinks, stainless steel (with sink covers)
1	X		Deluge shower and eye wash
1	X		Glassware drying rack, mounted above sink
30		X	Computer
2		X	Printer
1		X	Computer and printer for teacher
2	X		Marker board, stackable, 4' x 16', with map rail and flag holder
2	X		Tack Board, 4' x 4'
1	X		8'w x 6'h Video Format Screen with black masking borders
1		X	Pencil sharpener, electric

No. of Items	Contractor Provided	District Provided (FF&E)	Description
	X		Fire extinguishers, per code
1	X		Fire blanket, wall-mounted
1	X		First Aid kit, wall mounted
1	X		Display cabinet, transparent front
1	X		Clock
1		X	Smart Table
1		X	Smart Board
1	X		Multimedia cabinet (refer to General Considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)
1	X		Teacher demonstration table (refer to special considerations)

B. Chemical Storage (per)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X		Glassware drying rack, mounted above sink
1		X	Trash can, 25-gal. capacity, non-metal
1		X	File cabinet, four draw, legal, lateral, lockable
1	X		Refrigerator with ice maker, shared within department
1	X		Dishwasher, shared within department
1	X		Ice Machine
1	X		Double stainless steel sink
5		X	Stainless steel laboratory, cart
3	X		Fire proof steel storage cabinet (3), lockable -one cabinet each for caustics, acids and flammables
1	X		Fixed fume hood, vented outside
	X		Built-ins (refer to special considerations)

C. Material Storage (per)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X	X	Glassware drying rack, mounted above sink
1		X	Microwave
1		X	Trash can, 25-gal. capacity, non-metal
1	X		Dishwasher (provided in 2 labs)
1	X		Icemaker (provided in 2 labs)
1	X		Double stainless steel sink
	X		Built-ins (refer to special considerations)

D. Computer Laboratory (Distance Learning Center)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
	X		Counters for 30 computers set up in a tiered theater style for distance learning
1		X	Teacher chair
30		X	Chair
1		X	Computer with printer for teacher
1		X	File cabinet, four-drawer, legal, lateral, lockable, chemical resistant top
30		X	Computer
4		X	Printer
1	X		Teacher storage cabinet, 36"W x 30"D x 72"H, with adjustable shelving, lockable
2	X		Marker Board, stackable, 4' x 16', with map rail and flag holder
1-2	X		Tack Board, 4' x 4'
1		X	Smart Board (large)
3	X		6' x 8' Video Format Screen with black masking borders
2			Tracking Camera for distance learning system
1		X	Electric pencil sharpener
1	X		Clock, battery
1	X		Table/podium for central control of cameras and other equipment for the Distance Learning system
1	X		Multimedia cabinet (refer to General Considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

Refer to **GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROL.**

- A. **Heating/Cooling/Ventilation** - As required to meet District Standards. Exhaust system should accommodate fumes from dissecting specimens.
- B. **Acoustical** - As required to meet District Standards.
- C. **Floor** - As required to meet District Standards.
- D. **Walls** - As required to meet District Standards.
- E. **Ceiling** - As required to meet District Standards.

- F. **Lighting** - As required to meet District Standards.
- G. **Windows** - As required to meet District Standards. Provide observation window between material storage and laboratories.
- H. **Doors** - As required to meet District Standards.
- I. **Water/Plumbing Fixtures** - As required to meet District Standards. Provide master shut-off valve for water.
- J. **Communications** - As required to meet District Standards.
- K. **Electrical** - As required to meet District Standards. Master shut-offs to all electrical outlets in an area shall be provided and located in a secure area near the demonstration areas in laboratories and near the exit doors of other areas, with the exception of the chemical storage room where the master shutoff will be located externally and marked. Electric shall be located on all walls for various equipment and computers.
- L. **Instructional Technology** - As required to meet District Standards. Data shall be located on all walls for various equipment and computers.
- M. **Gas and Air** - As required to meet District Standards. Provide two gas lines at teacher station and at student stations. For all laboratories, provide compressed air, and water at teacher station and at student stations. Gas shall only be located in chemistry labs at the teacher station and student stations. Provide master shut-off valves for gas and compressed air. Based on program furniture and equipment, provide gas and compressed air as required.
- N. **Safety** - As required to meet District Standards.
- O. **Fencing** – As required to meet District Standards.
- P. **Service Drives** – As required to meet District Standards.
- Q. **Parking** - As required to meet District Standards.
- R. **Built-ins**
 - 1. **Laboratory** –
 - a. Provide and position acid resistant counters on both side walls with lockable cabinets below and a mixture of glass-fronted and solid lockable cabinets above. Leave at least 2' of space between counter and upper cabinets to accommodate computers and other equipment.

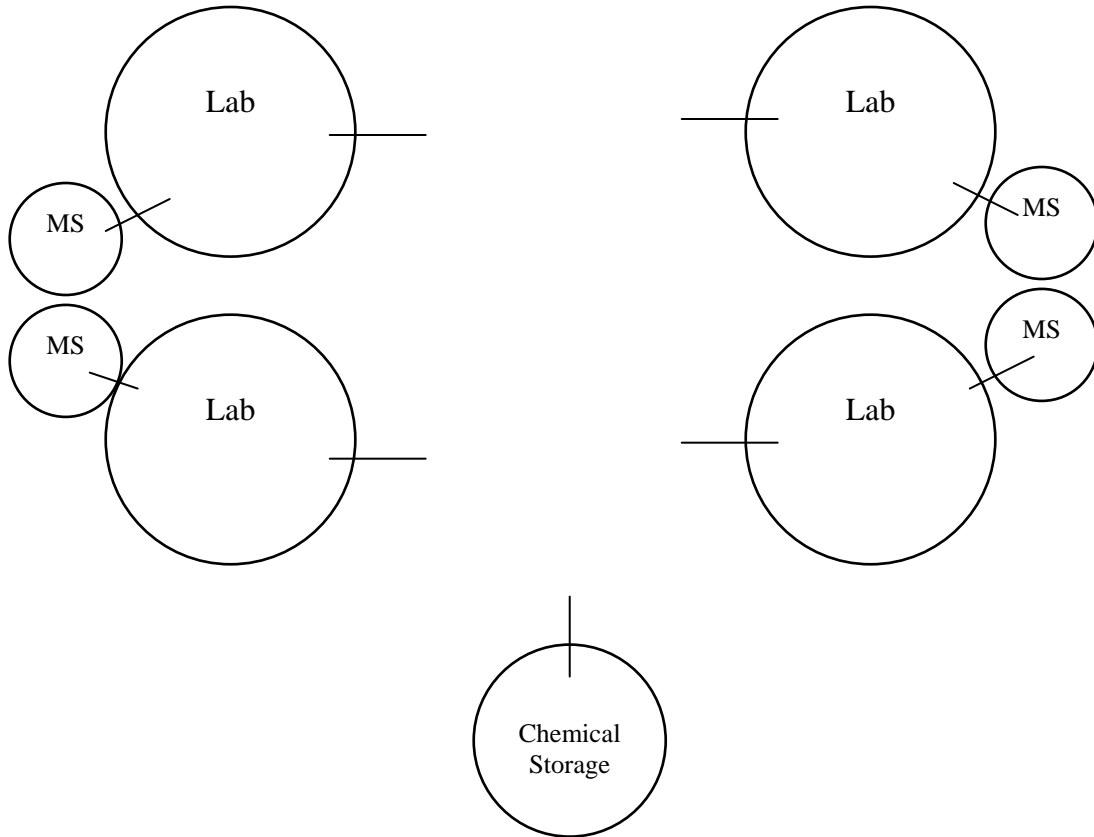
- b. Provide bookcases, 30"H, adjustable shelves.
 - c. Provide microscope cabinet to house microscope (60), and stereoscopic microscope (15), lockable. Provide bookcase with locking, hinged, glass doors and adjustable shelves, approximately, 84"H x 42"W x 16"D.
 - d. Provide teacher demonstration table, acid resistant, 72", permanent with sink, electrical data connections, water, gas and air hook-ups with above demonstration mirror.
 - e. Provide Multimedia cabinet - refer to General Considerations.
4. **Material Storage** – Provide acid-resistant counter on two walls with double, deep sink (2) with residue traps, full service (gas, air, electricity, water); lockable drawers and open, adjustable shelf base cabinets. Provide wall cabinets, mixture of solid and glass-front doors, lockable, with adjustable shelves on available wall space. Provide shelving, floor-to-ceiling, adjustable shelves, 12"D, on available wall space.
5. **Chemical Storage** – Provide stone top counter, approximately, 10', with acid-resistant sink with residue traps, full service (gas, air, electricity, water); lockable drawers and open, adjustable shelf base cabinets. Provide 100 lineal feet, 14"D, chemical storage shelving, non-corrosive. Provide full-height, adjustable shelving on available wall space, with lip, non-corrosive.
6. **Distance Learning Lab** – Provide theater type seating and workspace for approximately 30 computer and students. The electrical and computer/data hook ups should be located below the counters. The counters shall have grommets for wire management.

S. **Other Considerations**

- 1. Provide grease traps, where necessary.
- 2. Chemical storage to have outside wall in case of explosion.
- 3. Student activities take place in the perimeter areas of the laboratory.
- 4. Laboratory shall require adequate standing height work surface.
- 5. A dispensing area located in the laboratory shall be necessary to issue supplies and equipment.

SPATIAL RELATIONSHIPS

Equine Academy/Pre-Vet Program



MS = Material Storage

Not all spaces are shown

FAMILY AND CONSUMER SCIENCES - CAREER EDUCATION

I. PROGRAM PHILOSOPHY/GOALS/ACTIVITIES

Family and Consumer Sciences (F.A.C.S.) provides a progressive curriculum which will encourage, motivate and develop student potential. The design of the program shall provide students with experience that will acquaint them with a variety of career pathways that utilize FCS related knowledge and skills. All FCS programs are committed to encouraging all students enrolled (including gifted, talented emotionally/mental/physically handicapped) to develop to their fullest potential as they learn skills for daily management of life and job preparatory skills.

IV. ORGANIZATIONAL NOMENCLATURE

Teacher - Student Ratio: 1:20

Grade Levels for Which Program Is Intended 9 - 12

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

- A. Evening classes
- B. F.C.C.L.A. meetings
- C. Outreach programs for the community

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.)

- A. Provide an alteration/fitting room in the Fashion Production and Design laboratory from the NSF of laboratory.
- B. Culinary Laboratory should be located in the 1st floor near the school cafeteria for deliveries and sharing of outdoor dining.

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
<u>Family & Consumer Science</u>							
234	1	Teacher Education (FKA Early Childhood)			1,700	20	20
812	1	Project Storage			150		
808	1	Material Storage			100		
852	1	Technology Resource Center			800		
842	1	Kitchen			125		
843	1	Laundry			50		
807	1	Outside Storage			100		
		Subtotal			3,025		

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
				234	2	Culinary Operations to include the following:	
807	1	Warewashing					
807	1	Mop Room		1,700	3,400		
807	1	Equipment Storage					
807	1	Dry Storage					
812	2	Project Storage		150	300		
852	2	Technology Resource Center		800	1,600		
842	2	Kitchen		125	250		
843	2	Laundry		50	100		
818	2	Locker Room		225	450		
		Subtotal			6,100		
234	1	Fashion Design/Interior Design			1,700	20	20
808	1	Material Storage			100		
812	1	Project Storage			150		
852	1	Technology Resource Center			800		
843	1	Laundry			50		
		Subtotal			2,800		
		Total			11,925		80

VIII. PROGRAM FURNITURE AND EQUIPMENT

A. Fashion Design/Interior Design

1. Laboratory

No. of Items	Contractor Provided	District Provided (FF&E)	Description
12-15		X	Activity Table
24-30		X	Chair
10			Cutting table rectangular, 45" x 54", with space for four tote drawer table (for projects, cutting or computers)
25-30		X	Sewing machine, domestic and/or overlock Sewing machine, designing, digitizer & embroider
4-5		X	Surge machine
4		X	Embroider machine
1		X	Steam press, portable
10		X	Irons
4		X	Ironing Board
		X	Couch/chair for demonstrations
1	X		Mirror, three-way, adjustable (with curtain track)
1		X	File cabinet, four-drawer, legal, lateral, lockable
12-5		X	Computer
4		X	Printer
1		X	Plotter
1		X	Computer and printer for teacher
1	X		Marker board, 4' x 16', with map rail and flag holder

No. of Items	Contractor Provided	District Provided (FF&E)	Description
2	X		Tack Board, 4' x 4'
1	X		80''w x 60''h Video Format Screen with black masking borders
1		X	Pencil sharpener, electric
1	X		First Aid Kit, wall mounted
1	X		Clock
1	X		Multimedia cabinet (refer to General Considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)
1	X		Teacher Demonstration Table

2. Technology Resource Center

No. of Items	Contractor Provided	District Provided (FF&E)	Description
30		X	Student desk and chair
8		X	Computer table
1		X	Stool, 30''
1		X	Table, 30''W x 72''L
20		X	Chair
1		X	File cabinet, four-drawer, legal, lateral, lockable
16		X	Computer
2		X	Printer/scanner
1		X	Computer and printer for teacher
2	X		Marker board, 4' x 8', with map rail and flag holder
2	X		Tack Board, 4' x 4'
1	X		80''w x 60''h Video Format Screen with black masking borders
1		X	Pencil sharpener, electric
1	X		Clock
1	X		Multimedia cabinet (refer to General Considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
1	X		Teacher Storage Cabinet
	X		Built-ins (refer to special considerations)

B. Culinary Operations**1. Culinary Laboratory**

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Lectern
1		X	Stool, 30"
30		X	Chair
2		X	Mobile stainless steel carts
1		X	File cabinet, four-drawer, legal, lateral, lockable
1	X		First Aid Kit, wall mounted
1	X		Fire Extinguisher
1	X		Fire Blanket
8-10		X	Table, work, stainless steel, with drawers and lower shelves
8-10		X	Table, work, stainless steel, with drawers (no under shelf)
1	X		Commercial hood unit with ansul system
1	X		Open burner gas stove 6 burner/conven ovens
1	X		Open burner gas stove 6 burner with fry top/conven ovens
1	X		Grill
1	X		Blast chiller
1	X		Flash oven
2	X		Full sized convection ovens-stacked unit electric
1	X		Combination steamer-oven
1	X		Deck oven (2), steam injected
1	X		Holding/proofer
2	X		Deep fat fryer—40 frialator
1	X		Microwave, 1000 watt
2	X		Microwave, 1200 watt
1	X		Refrigerator, reach-in
1	X		Refrigerator, roll-in
2	X		Set in racks with sliders
1	X		Walk-in refrigerator (with metal shelving)
2	X		Reach-in freezer
2	X		Set in racks with sliders
1	X		Walk-in freezer (with metal shelving)
1	X		Tilt frying pan/skillet
1	X		Steamer
1	X		Ice maker, large capacity
1	X		Salamander
1	X		Trunnion kettle (small steam jacket)
	X		Sink, single compartment, for hand washing
1	X		Sink, three-compartment, oversized pot sink
2	X		Sink, two-compartment, Vegetable prep
2	X		Turbo garbage disposal, low profile
1		X	Receiving scale
1		X	Cryovac machine
2		X	20 qt bench mixer
1		X	Stand for mixer
6		X	6 qt counter mixer
1		X	Food processor
2		X	Commercial Blender ½ gal

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Table mounted can opener
1		X	Deli meat slicer
4		X	Baker's scale
8		X	Portion/spring scales, 16 oz
8		X	Portion/spring scale, 32 oz
1		X	Electric scale
		X	Various Dinnerware & Flatware
		X	Various display and service equipment
		X	Various assorted small equipment
1	X		Single tank dishwasher in warewashing area
2	X		Dishtables in warewashing area
1	X		Sink, three-compartment, oversized pot sink in warewashing area
1	X		Clock
1	X		Tackboard, 4' x 8'
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)
For additional information - refer to Culinary FF&E List prepared by Choice Program and School Choice			

2. Dining/Conference (Technology Resource)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
8-10		X	Dining Tables, round (4 tops)
32-40		X	Chairs
1		X	File cabinet, four-drawer, legal, lateral, lockable
4		X	Computer
2		X	Printer
2		X	Computer Table with wire management
1		X	Computer and printer for teacher
1	X		Marker board, 4' x 8', with map rail and flag holder
1	X		Tack Board, 4' x 4'
2	X		Teacher storage cabinet, 36"W x 30"D x 72"H, with adjustable shelving, lockable
1	X		80"w x 60"h Video Format Screen with black masking borders
1		X	Pencil sharpener, electric
1	X		Sink, double bowl
1	X		Clock
1	X		Multimedia cabinet (refer to General Considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

3. Demonstration Area (Technology Resource)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
15-18		X	Activity Table
1		X	Stool, 30"
30-36		X	Chair
1		X	File cabinet, four-drawer, legal, lateral, lockable
15		X	Computer
3		X	Printer
1		X	Computer and printer for teacher
7		X	Computer Table with wire management
1	X		Sink, double bowl
1	X		Sink, hand washing
1	X		Oven with hood
1	X		Dishwasher
1	X		Refrigerator/Freezer combo
2	X		Teacher storage cabinet, 36"W x 30"D x 72"H, with adjustable shelving, lockable
2	X		Marker board, 4' x 8', with map rail and flag holder
2	X		Tack Board, 4' x 4'
1	X		80"w x 60"h Video Format Screen with black masking borders
1		X	Pencil sharpener, electric
1	X		Clock
1	X		Multimedia cabinet (refer to General Considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
1	X		Teacher Demonstration table (refer to special considerations)
	X		Built-ins (refer to special considerations)

C. Teacher Education (FKA Child Care Learning/Early Childhood Education)

1. Laboratory

No. of Items	Contractor Provided	District Provided (FF&E)	Description
20		X	Student chair
1		X	Stool, 30"
2		X	Table
1		X	Chair, child's rocking, 13" x 11" x 23"
1		X	Carpet, 9' x 12'
1		X	Cart, utility, with swivel casters, 35" x 31"
4		X	Table, pre-school height, round 48"
1		X	File cabinet, four-drawer, legal, lateral, lockable
2		X	Computer table, child size
2	X		Bookcase, 30"H x 12"D x 48"W
		X	Various Activity Centers including play kitchen, blocks,

No. of Items	Contractor Provided	District Provided (FF&E)	Description
			etc.
1		X	Vacuum, upright
1		X	Cart, utility
2		X	Computer
1		X	Printer
1			Computer and printer for teacher
2	X		Marker board, 4' x 8', with map rail and flag holder
2	X		Tack Board, 4' x 4'
1	X		White board outside of classroom for messages
1	X		80''w x 60''h Video Format Screen with black masking borders
1		X	Pencil sharpener, electric
1	X		First Aid Kit, wall mounted
1	X		Fire Extinguisher
1	X		Fire Blanket
1	X		Stainless steel sink with goose neck faucet (CW) and water jet drinking fountain accessible to disabled
1	X		Art Sink
1	X		Double kitchen sink with kitchen faucet (HW & CW)
1	X		Residential refrigerator with freezer and icemaker, 22 cu.ft.
1	X		Residential dishwashers
1	X		Residential Stove
1	X		Microwave oven
1	X		Clock
1	X		Multimedia cabinet (refer to General Considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

2. Outside Storage

No. of Items	Contractor Provided	District Provided (FF&E)	Description
2-4		X	Riding tractor/trailer
8-10		X	Tricycles
15		X	Tumbling mat
	X		Adjustable metal shelving for outdoor play equipment and supplies
		X	Outdoor play equipment (tricycles, balls, etc.)
	X		Playground Equipment

3. Technology Resource Center

No. of Items	Contractor Provided	District Provided (FF&E)	Description
30		X	Student desk and chair
8		X	Computer table
1		X	Stool, 30"
1		X	Table, 30"W x 72"L
20		X	Chair
1		X	File cabinet, four-drawer, legal, lateral, lockable
16		X	Computer
2		X	Printer
1		X	Computer and printer for teacher
2	X		Marker board, 4' x 8', with map rail and flag holder
2	X		Tack Board, 4' x 4'
1	X		80"w x 60"h Video Format Screen with black masking borders
1		X	Pencil sharpener, electric
1	X		Clock
1	X		Multimedia cabinet (refer to General Considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

D. Laundry Room

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X		Washer, heavy duty
1	X		Dryer, heavy duty
1	X		Laundry Tub
1		X	Vacuum Cleaner
1		X	Step stool with safety trends and fold-back seat
1		X	Hamper for towels to be folded and tablecloths to be ironed.
	X		Built-ins (refer to special considerations)

Consult with SDPBC Program Management (Construction Liaison at-large) for additional Furniture, Fixtures and Equipment.

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

Refer to **GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROL.**

A. Heating/Cooling/Ventilation - As required to meet District Standards.

1. Clothes dryer: provide vent to outside

2. Surface units/range: provide with exhaust fan and vent to outside
 3. Commercial range: provide with exhaust fan/additional air unit
- B. Acoustical** - As required to meet District Standards.
- C. Floor** - As required to meet District Standards. Kitchen floor shall be non-absorbent, non-slip, and grease-proof quarry tile with floor drains.
- D. Walls** - As required to meet District Standards. Provide tile back splash in all kitchens. Provide floor to ceiling mirrors, 3-sides of room, in the alteration/fitting room in the Fashion Production/Interior Design Laboratory.
- E. Ceiling** - As required to meet District Standards.
- F. Lighting** - As required to meet District Standards. Provide task lighting above kitchen work areas.
- G. Windows** - As required to meet District Standards. In Culinary Laboratory – provide observation window between storage and laboratory. In Teacher Education Laboratory – provide observation windows between Technology Resource Room and Laboratory and Storage and Technology Resource Room.
- H. Doors** - As required to meet District Standards.
- I. Water/Plumbing Fixtures** - As required to meet District Standards.
1. Provide single sink with control key faucet (CW) and hose bibb with control key operator on outside patio.
 2. Provide restrooms connected to the Teacher Education laboratory to be used by the small children.
 3. Floor drains shall be provided to facilitate cleaning of floors. Hose reels shall be provided for cleaning in Culinary Operations Laboratory.
- J. Communications** - As required to meet District Standards.
- K. Electrical** - As required to meet District Standards. Special concern shall be given to the electrical needs of all family and consumer science home economics laboratories, especially in the Family and Consumer Sciences Technology Laboratory where computers, a server for networking and sewing machines, will be placed in a limited amount of floor space. Provide sufficient outlets for all computers, technical and appliance equipment in all areas.
- L. Instructional Technology** – As required to meet District Standards.
- M. Gas and Air** - As required to meet District Standards.
- N. Safety** - As required to meet District Standards. Panic button all laboratory areas; finger guards on all sewing machines; fire blankets in Culinary Operations Laboratory and Teacher Education Laboratory.

- O. Fencing / Outside Area** - As required to meet District Standards. In outdoor play area for the Teacher Education Laboratory provide a chain link fence, 6', with child-proof gate.
- P. Service Drives** - As required to meet District Standards. Nearby drive shall be provided to the Culinary Operations Laboratory for delivery of groceries.
- Q. Parking** - As required to meet District Standards. Drop-off and parking for parents shall be located near Teacher Education Laboratory.
- R. Built-ins**
- 1. Built-in work and storage**
 - a. Fashion Design/Interior Design**
 - (1) **Student Area:** Provide Computer/Sewing Tech Workstations, keyboard mouse slide tray, under door locked storage unit, attached spring-loaded pop-up sewing machine storage with grommets for electrical outlets in the counter top and upper lockable adjustable shelving cabinets to house sewing machines, books, etc.
 - (2) **Storage in Laboratory:** Provide section to accommodate 200 tote trays, 6"H x 19"L x 10"W. Caster arrangement: two stationary, two swivel, with foot brakes and one swivel, centered; each long side to be divided into four equal sections to house tote trays, remaining section with slide-out shelves. Each section is to be enclosed with doors, with locks keyed to one master. Interior of doors to be outfitted with slots, grooves and hooks for storage of scissors, seam rippers. Provide upper and lower cabinets with double stainless steel sink. Provide two storage cabinets, lockable 1 for hanging garments and 1 for folded garments (shelves). Provide one lockable storage cabinet for patterns.
 - (3) **Storage Room:** Provide metal shelving with adjustable shelves along one wall. Provide wooden shelving with adjustable shelves along one wall. Provide two storage cabinets, lockable 1 for hanging garments and 1 for folded garments (shelves).
 - (4) **Laundry Room:** Provide built-in, lockable storage cabinet for laundry supplies (detergent, starch, bleach). Provide storage space for folded linens with doors and lockable
 - (5) **Laboratory:** Provide built-in bookcase, 5'L x 15"D x 40"H with adjustable shelves. Provide Multimedia cabinet and workstation – refer to General Considerations. Provide computer counter to accommodate six (6) computers and three (3) printers. The counter shall have grommets for wire management.

b. Culinary Operations Laboratory

- (1) **Demonstration Area:** Provide teacher demonstration island (located off center of teaching wall) with overhead mirror, electric and date, located where all students can see. Appliances should be located behind the demonstration island. Provide Multimedia cabinet and workstation – refer to General Considerations. Provide upper and lower kitchen cabinets with double bowl kitchen sink. Provide bookcases with adjustable shelves, (5'L).
- (2) **Dining/Conference:** Provide Multimedia cabinet and workstation – refer to General Considerations. Provide upper and lower kitchen cabinets with double bowl kitchen sink. Provide bookcases with adjustable shelves, (5'L). Provide full-size cabinets with adjustable shelves, lockable for linen, dinnerware, etc. storage.
- (3) **Equipment Storage:** Provide metal shelving with adjustable shelves. Provide full-size cabinets with adjustable shelves, lockable for linen, dinnerware, etc. storage.
- (4) **Store Room:** Provide metal shelving with adjustable shelves.
- (5) **Storage:** Provide upper and lower cabinets with adjustable shelves and lockable.
- (6) **Locker Room (per):** Provide approximately 75 ½ size lockers. Provide bench.
- (7) **Laundry Room:** Provide upper cabinets with adjustable shelves and lockable.

c. Teacher Education Laboratory

- (1) Provide cubbyhole (24), 15"H x 15"W x 15"D and no higher than 40" from floor.
- (2) Provide upper and lower cabinet with sink, adjustable shelves, lockable.
- (3) Provide bookcases with adjustable shelves, (5'L)
- (4) Provide computer counter to accommodate four computers and two printers. The counter shall have grommets for wire management.
- (5) Provide Multimedia cabinet and workstation – refer to General Considerations.
- (6) Provide metal shelving in storage room.

d. Technology Resource Center in Teacher Education

- (1) Provide bookcases with adjustable shelves, (5'L)
- (2) Provide Multimedia cabinet and workstation – refer to General Considerations.

e. Laundry Room

- (1) Provide built-in, lockable storage cabinet for laundry supplies (detergent, starch, bleach).
- (2) Provide storage space for folded linens with doors and lockable.

- f. 6' wall display case, lockable, glass doors. Locate in corridor near Family and Consumer Sciences Technology Laboratory.

S. Other Considerations

1. Teacher Education Laboratory

- a. Provide playground equipment and poured in place that shall meet F.A.C.B.C., Risk Management, MPO and Building Department standards.
- b. Provide smooth riding path for tricycles along the inside perimeter of fenced play area.
- c. A kitchen area shall be provided in Childcare/Early Childhood Laboratory.
- d. Provide an overhang area adjacent to the playground equipment for covered outdoor activities.
- e. Provide electric, data and phone in all storage rooms.

2. Culinary Operations Laboratory

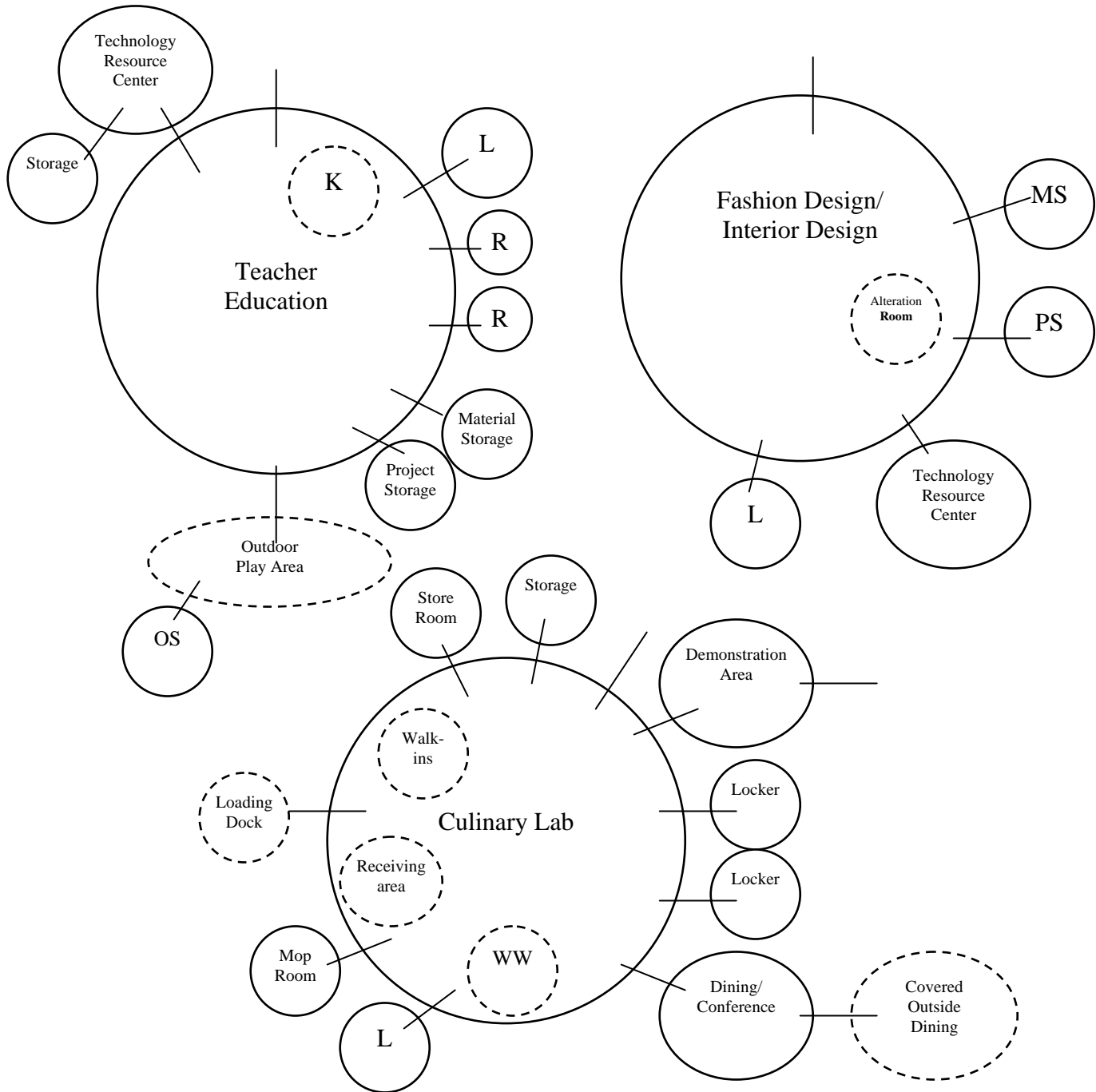
- a. All kitchen equipment should be placed on caster for easier cleaning purposes.
- b. Provide electric, data and phone in all storage rooms.

3. Fashion Design/Interior Design Laboratory

- a. Provide electric, data and phone in all storage rooms.

SPATIAL RELATIONSHIPS

Family & Consumer Science



MS = Material Storage
 PS = Project Storage
 K = Kitchen
 L = Laundry
 WW = Warewashing
 OS = Outside Storage
 R = Restroom

FINANCE & BUSINESS EDUCATION - CAREER EDUCATION

I. PROGRAM PHILOSOPHY

Business Technology Education in Palm Beach County will prepare individuals for occupations in the following clusters:

- X Accounting and Finance
- X Business Supervision and Management
- X Office Support Services

Emphasis will be placed on ethical conduct and effective communication skills which are needed to function as an effective employee and leader in the American business system. Upon reaching various Occupational Completion Points, a well-trained business education student will have gained the necessary skills to secure employment in the chosen field of study via internship or permanent placement.

PROGRAM DESCRIPTION

Business Technology Education is a group of planned, specialized instructional programs structured to prepare students to enter, to advance, and to refine prescribed competencies requisite for employment in a cluster of business occupations or in a specific occupation chosen as a career objective.

Future Business Leaders of America (FBLA) is the appropriate vocational student organization for providing leadership learning experiences and for reinforcing the skills that are taught in Business Technology Education.

II. & III **PROGRAM GOALS & ACTIVITIES**

The overall goal of the Business Technology Education program is to focus on broad, transferable skills that stress understanding and demonstration of the following elements of the workplace: planning; management; finance; technical and production skills; underlying principles of technology; labor issues; community issues; and health, safety, and environmental issues. Cluster goals are as follows:

All students in the business education area are in grades nine through twelve, including special needs students. Instruction and learning activities will be provided in a laboratory setting that is reflective of a typical business environment. This is an overview of each cluster and is **not** inclusive of all activities that are required for successful completion of a cluster.

- A. **Accounting & Finance Cluster** - Performance of the following activities is included in this area: touch keyboarding; use of spreadsheet and accounting software; communicating via listening, speaking, writing, electronic, and nonverbal methods; discussion of workplace issues such as appropriate grooming, human relations, and time management; mathematical computation and financial assessment with and without machines as it relates to bookkeeping/accounting; and analyzing personal strengths and weaknesses as they relate to career exploration and personal development. In addition, the student will develop the following skills: filing and record management, scheduling, reprographics, and mail handling. Furthermore, the student will participate in work-based learning experiences.
- B. **Business Supervision and Management Cluster** - Performance of the following activities is included in this area: touch keyboarding; use of information systems to enhance workplace performance; communicating via listening, speaking, writing, electronic, and nonverbal methods; use of technology to enhance the effectiveness of communications; use of information to set priorities and complete tasks; analyze current and emerging workplace trends and issues to determine impact on the workplace; develop awareness of management functions and organizational structures; practice quality performance; incorporate appropriate leadership and supervision techniques, customer service strategies, and standards of ethics to accomplish job objectives; mathematical computation and financial assessment with and without machines; justify the need to gain and maintain competitive advantage; perform human relations activities; analyze the impact and relationship of government regulations and community involvement; and analyzing personal strengths and weakness as they relate to career exploration and personal development. In addition, the student will develop the following skills: filing and record management, scheduling, reprographics, and mail handling. Furthermore, the student will participate in work-based learning experiences.
- C. **Office Support Services** - touch keyboarding; use of information systems to enhance workplace performance; communicating via listening, speaking, writing, electronic, and nonverbal methods; use of technology to enhance the effectiveness of communications; use of information to set priorities and complete tasks; analyze current and emerging workplace trends and issues to determine impact on the workplace; develop awareness of management functions and organizational structures; practice quality performance; incorporate appropriate leadership and supervision techniques, customer service strategies, and standards of ethics to accomplish job objectives; mathematical computation and financial assessment with and without machines; gain knowledge of medical and legal terminology; develop telephone skills and techniques; perform relevant research on the Internet; and analyzing personal strengths and weakness as they relate to career exploration and personal development. In addition, the student will develop the following skills: filing and record management, scheduling, reprographics, and mail handling. Furthermore, the student will participate in work-based learning experiences.

IV. ORGANIZATIONAL NOMENCLATURE

Teacher - Student Ratio 1:20
 Grade Levels for Which Program is Intended 9 - 12

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

- A. Every business, international and domestic, is dependent upon computers for completing day-to-day activities. If business technology education is to successfully prepare students to enter the workforce at one point in time, it is absolutely necessary that each lab be equipped with computers and peripherals such as laser printers, scanners, plotters, projection panels, and laser disc players.
- B. All clusters will employ the cooperative method of instruction.
- C. Every business technology education lab should be wired to support a lab of computers.

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.)

N/A

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
<u>Finance/Business Education</u>							
212	4	Laboratory		1460	5,840	20	80
808	4	Material Storage		100	400		
812	4	Project Storage		150	600		
TOTAL					6,840		80

VIII. PROGRAM FURNITURE AND EQUIPMENT

A. Finance/Business Laboratory

No. of Items	Contractor Provided	District Provided (FF&E)	Description
30		X	L Shaped computer desk
30		X	Student Chair, pneumatic lift, tilt, caster base, armless
1		X	Teacher chair with executive chair back 20"W x 19"D, tilt with lock, pneumatic lift, arms, and five-star wide base with hooded casters
1		X	Side chair for teacher desk, no casters

No. of Items	Contractor Provided	District Provided (FF&E)	Description
		X	Various software
30		X	Computer
2		X	Inkjet Color Printer
3		X	Laser printer
1		X	Scanner
1		X	Computer and Printer for teacher
2		X	Mobile printer stands
35		X	Headphones
30		X	Financial calculator with memory, both display and print
1		X	Digital camera
1		X	Camcorder
2		X	Vertical File, four drawer, legal, lateral, with lock
1		X	Table, 72" x 30", laminated top, adjustable
1		X	Paper cutter, small
2		X	Stapler electric
1		X	3-hole Puncher, electric
1		X	Pencil sharpener, electric
1		X	Magazine Rack, 42" x 18" x 60"
1		X	Paper shredder
1	X		80" w x 60" h Video Format Screen with black masking borders
2	X		Marker board, 4' x 16', with map rail and flag holder
2	X		Tack Board, 4' x 4'
2	X		Hanging fixtures for charts in front of room
1	X		Clock
1	X		Multimedia cabinet (refer to General Considerations)
1	X		Workstation (refer to General Considerations)
1		X	DVD/VCR Combo
1		X	Document Camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

Consult with SDPBC Program Management (Construction Liaison at-large) for additional Furniture, Fixtures and Equipment.

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

Refer to **GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROL.**

- A. Heating/Cooling/Ventilation** - As required to meet District Standards.
- B. Acoustical** - As required to meet District Standards.
- C. Floor** - As required to meet District Standards.

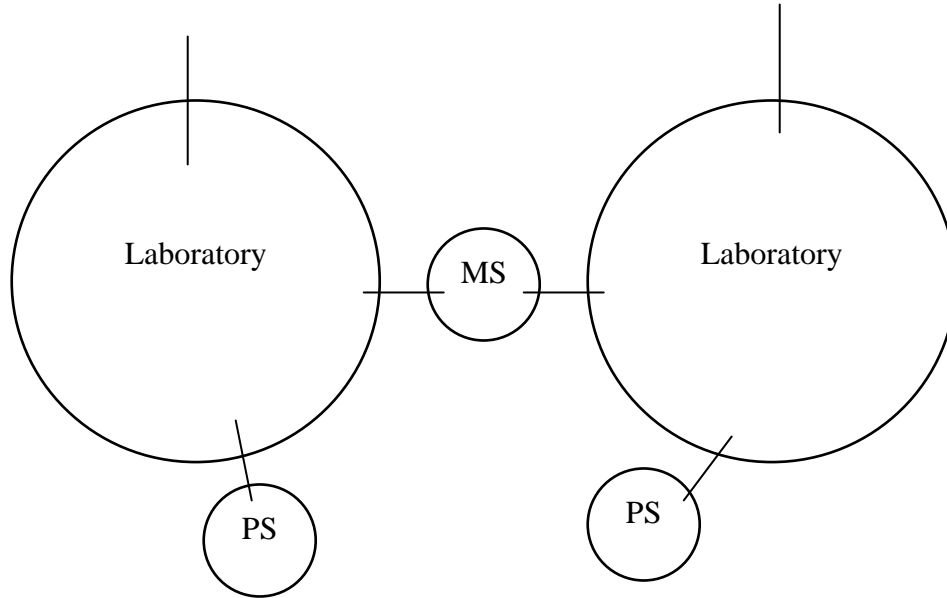
- D. **Walls** - As required to meet District Standards.
- E. **Ceiling** - As required to meet District Standards.
- F. **Lighting** - As required to meet District Standards.
- G. **Windows** - As required to meet District Standards. Provide observation window between project storage and laboratory.
- H. **Doors** – As required to meet District Standards.
- I. **Water/Plumbing Fixtures** – As required to meet District Standards.
- J. **Communications** – As required to meet District Standards.
- K. **Electrical** - As required to meet District Standards. Maximum utilization of walls for duplex outlets, but no less than three duplex outlets on each wall, and ceiling wiring (location to be determined later) in all instructional areas.
- L. **Instructional Technology** - As required to meet District Standards.
- M. **Gas and Air** - As required to meet District Standards.
- N. **Safety** - As required to meet District Standards.
- O. **Fencing** - As required to meet District Standards.
- P. **Service Drives** - As required to meet District Standards.
- Q. **Parking** - As required to meet District Standards.
- R. **Built-ins**
 - 1. Provide base cabinet with sink and doors, lockable and adjustable shelves, 34"H, and upper cabinets with doors, lockable and adjustable shelves.
 - 2. Provide built-in bookcase, 5'L x 15"D x 40"H with adjustable shelves.
 - 3. Provide Multimedia cabinet and workstation - refer to General Considerations.
 - 4. **Project Storage** – Provide cabinet (1), approximately, 7'H x 4'W x 18"D; with doors and adjustable shelving.
 - 5. **Material Storage** - Provide metal shelving with adjustable shelving on two (2) walls, floor to ceiling. Provide backing in walls to attach metal shelving.

S. Other Considerations

1. Provide data and electrical hook-ups in the project storage.

SPATIAL RELATIONSHIPS

Finance & Business Education



MS = Material Storage
PS = Project Storage

Not all spaces are shown

HEALTH OCCUPATIONS - CAREER EDUCATION

I. PROGRAM PHILOSOPHY

The health occupations program provides an opportunity for students to secure jobs and provides leadership training experiences in the health field.

II. PROGRAM GOALS

The purpose of this program is to prepare students for employment as health aides, nurse aides, practical nursing and other health related occupations.

III. PROGRAM ACTIVITIES

The following courses will be taught in Health Occupations:

- A. Nurse Assistant
- B. Health Unit Coordinator
- C. Allied Health Assistant
- D. Practical Nursing
- E. Dental Aide
- F. Home Health Aide
- G. EKG Aide
- H. Direct Independent Study
- I. OJT (on the job training)

IV. ORGANIZATIONAL NOMENCLATURE

Teacher - Student Ratio 1:20

Grade Levels for Which Program is Intended 9 - 12

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

- A. Clinical learning experiences are required and the student will perform these in a clinical and laboratory setting.

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.)

- A. Locate nursing station within the main laboratory.
- B. Create Laundry Area from dispensary.
- C. Create Restroom with shower from project storage space.

VIII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
Health Occupations							
252	2	Health Occupations Laboratory		1,200	2,400	20	40
804	1	Dispensary		135	135		
272	1	Laundry area		135	135		
808	2	Material Storage		100	200		
812	2	Project Storage		150	300		
840	2	Related Classroom/Computer Laboratory		680	1,360		
		Subtotal			4,530		
254	1	Practical Nursing Laboratory (with nursing stations)			3,300	20	20
804	1	Dispensary/Reference			235		
810	1	Material Storage			395		
818	1	Restroom with shower			150		
272	1	Laundry area			135		
840	1	Related Classroom/Computer Laboratory			680		
849	1	Project Storage			310		
		Subtotal			5,205		
		Total			9,735		60

VIII. PROGRAM FURNITURE AND EQUIPMENT

A. Related Classroom/Computer Laboratory

No. of Items	Contractor Provided	District Provided (FF&E)	Description
25-30		X	Computer work stations with wire management
1		X	File cabinet, four-drawer, legal, lateral, lockable
1		X	Table, 30" x 72"
25-30		X	Chairs, stackable, 17", plastic
1		X	Lectern
1		X	Stool
2	X		Teacher storage cabinet, 36"W x 30"D x 72"H, with adjustable shelving, lockable
2	X		Marker board, 4' x 8', with map rails and flag holder
2	X		Tack Board, 4' x 4'
1	X		80" w x 60" h Video Format Screen with black masking borders
25-30		X	Computers
6		X	Printers
1		X	Computer and printer for teacher
1		X	Pencil sharpener, electric
1	X		Single sink with HW & CW
1	X		Clock

No. of Items	Contractor Provided	District Provided (FF&E)	Description
	X		Built-ins (refer to special considerations)
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
1	X		Multimedia cabinet (refer to General Considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart

B. Nursing Station (located within the main lab)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
4		X	Chair
1		X	Chart Back
1		X	Chart rack
2-4		X	Computer & printer
1		X	Telephone
1	X		Counter
2	X		Marker board, 4' x 8', with map rails and flag holder
1	X		Tack Board, 4' x 4'
1	X		Clock
	X		Built-ins (refer to special considerations)

C. Health Occupations Laboratory

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X		Refrigerator, under counter
1	X		Microwave
1		X	Hospital bed
1	X		Curtain for privacy, curtain track
1		X	Bedside table
1		X	Overhead table
2	X		Sink, double-deep stainless steel
1		X	File cabinet, four drawer, lockable
1		X	Teacher chair
1	X		Overhead/bed light
10		X	Computer
2		X	Printers
1		X	Computer and Printer for teacher
1		X	EKG Equipment
10		X	Stool
1	X		Clock
1	X		80" w x 60" h Video Format Screen with black masking borders
1	X		Multimedia cabinet (refer to general considerations)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X		Workstation (refer to general considerations)
1		X	Document Camera
1		X	DVD/VCR Combo
1		X	Wireless Laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

D. Practical Nursing Laboratory

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X		Refrigerator
1	X		Microwave
6-10		X	Hospital bed with curtain for privacy curtain track
4		X	Bedside table
4		X	Overhead table
1		X	File cabinet, four drawer, lockable
1		X	Teacher chair
4	X		Overhead/bed light
2	X		3 compartment hospital sink
10		X	Computer
2		X	Printer
1		X	Computer and printer for teacher
20		X	Chair, stackable
1	X		Clock
1	X		80" w x 60" h Video Format Screen with black masking borders
1	X		Multimedia cabinet (refer to general consideration)
1	X		Workstation (refer to general considerations)
1		X	Document Camera
1		X	DVD/VCR Combo
1		X	Wireless Laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

E. Dispensary

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Drug cart, lockable
1		X	Table
1		X	Chair
1		X	Computer & printer
	X		Built-ins (refer to special considerations)

F. Laundry

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X		Utility Sink/Tub
1	X		Double stainless steel sink
1	X		Washer
1	X		Dryer
	X		Built-ins (refer to special considerations)

Consult with SDPBC Program Management (Construction Liaison at-large) for additional Furniture, Fixtures and Equipment.

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

Refer to **GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROL.**

- A. **Heating/Cooling/Ventilation** - As required to meet District Standards.
- B. **Acoustical** - As required to meet District Standards.
- C. **Floor** - As required to meet District Standards.
- D. **Walls** - As required to meet District Standards. Provide ½ wall around nurse's station
- E. **Ceiling** - As required to meet District Standards. Provide ceiling track for privacy curtain around each bed in laboratory.
- F. **Lighting** - As required to meet District Standards. Provide lowlight above each bed.
- G. **Windows** - As required to meet District Standards.
- H. **Doors** - As required to meet District Standards. Provide one double door with removable mullion to allow hospital bed in laboratory.
- I. **Water/Plumbing Fixtures** – As required to meet District Standards. Provide double sink (HW and CW) in laboratories and dispensary. Provide laundry sink in laundry room. Provide walk-in shower (ADA accessible) in restroom. Provide single sink with goose neck in dispensary.
- J. **Communications** - As required to meet District Standards. Provide telephone jacks in nursing stations, workroom and classrooms.
- K. **Electrical** - As required to meet District Standards. In student work areas, counter space with electric outlets to plug in equipment.

- L. **Instruction Technology** - As required to meet District Standards.
- M. **Gas and Air** - As required to meet District Standards.
- N. **Safety** – As required to meet District Standards.
- O. **Fencing** – As required to meet District Standards.
- P. **Service Drives** – As required to meet District Standards.
- Q. **Parking** – As required to meet District Standards.
- R. **Built-ins**
 - 1. **Practical Nursing Laboratory -**
 - a. Provide built-in upper and lower cabinets, lockable. Provide work counter with three drawers, double sink (hospital standard) with (HW) and (CW) next to refrigerator and microwave.
 - b. Provide Multimedia cabinet and workstation – refer to General Considerations.
 - c. Provide work counter space for 10 students with four drawers, lockable with electrical and computer outlets (with grommets for wire management). Provide shelves above work counter.
 - d. Provide display cabinet with transparent front.
 - 2. **Health Occupation Laboratory -**
 - a. Provide built-in upper and lower cabinets, lockable. Provide work counter with three drawers, double sink (hospital standard) with (HW) and (CW) next to refrigerator and microwave.
 - b. Provide Multimedia cabinet and workstation – refer to General Considerations.
 - c. Provide work counter space for 10 students with four drawers, lockable with electrical and computer outlets (with grommets for wire management). Provide shelves above work counter.
 - d. Provide display cabinet with transparent front.

3. Computer Laboratory/Related Classroom -

- a. Provide base cabinet with doors, lockable and adjustable shelves, 34"H, and upper cabinets with doors, lockable and adjustable shelves.
- b. Provide built-in bookcase, 5'L x 15"D x 40"H with adjustable shelves.
- c. Provide Multimedia cabinet and workstation – refer to General Considerations.
- d. Provide display cabinet with transparent front.

4. Nurses' Station – - Provide transaction counter for a minimum of two people with transaction top and a section to comply with F.A.C.B.C. standards. Provide working counter, 29"-30" h, along reception counter with a minimum of two lockable pedestals and center drawer. The space between working counter and transaction counter shall be 12" clear height to hold notebooks. Provide grommets for computers and phones.

5. Laundry –

- a. Provide upper and lower cabinets with sink, lockable.
- b. Provide storage space for folded linens, etc. with doors and lockable.

6. Dispensary –

- a. Provide upper and lower cabinets with hospital double sink, lockable.
- b. Provide metal shelving with adjustable shelves.

7. Storage

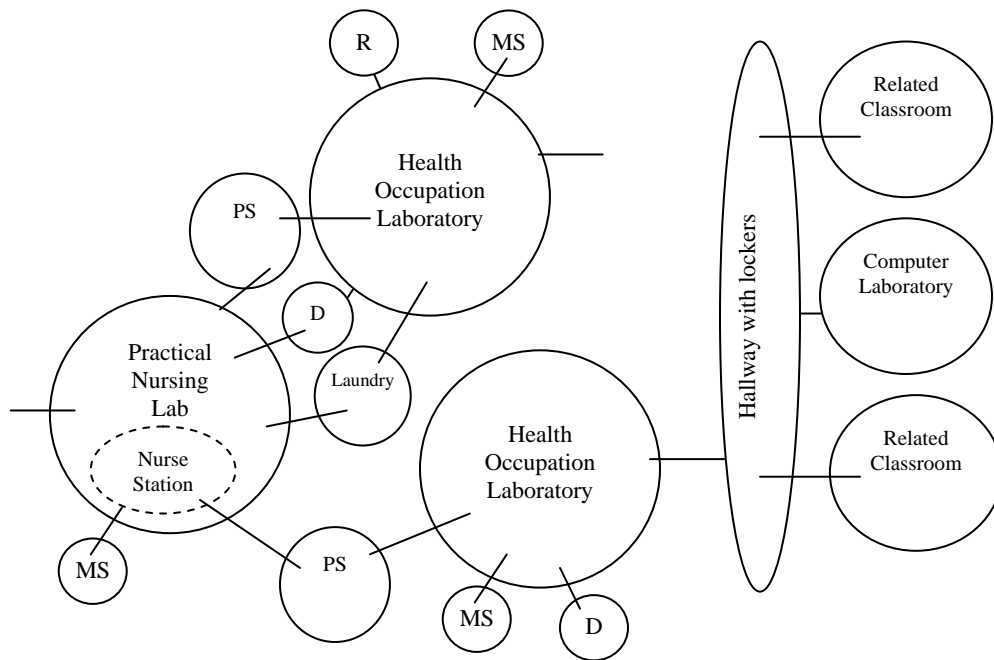
- a. Provide metal shelving with adjustable shelves.

S. Other Considerations –

1. Provide half wall lockers in size along corridor for health occupations students.
2. Provide electric, data and phone in all storages and dispensaries.
3. Do not use composition or pressed fiber board in Built-in work/storage.

SPATIAL RELATIONSHIPS

Health Occupations



D = Dispensary
MS = Material Storage
PS = Project Storage
R = Restroom w/ shower

Notes:
Nurse stations are located within the laboratory.
Locate lockers in hallway near the laboratories.

INFORMATION TECHNOLOGY - CAREER EDUCATION**I. PROGRAM PHILOSOPHY**

All students shall have the opportunity to gain working knowledge of capabilities, applications, entry level skills in networking, web and computer equipment and social impact of computer technology. As our technology increases more rapidly, it is important for a person to adapt to this changing technology, therefore necessitating a flexible training environment with the potential for growth and change.

II. PROGRAM GOALS

Students will have an opportunity to:

- A. Gain a working knowledge of computer applications and their limitations
- B. Investigate computer-related careers and master necessary skills
- C. Develop problem solving skills for all areas of computer uses
- D. Acquire a desire for optimum development in computer education
- E. Be creatively challenged commensurate with ability.

III. PROGRAM ACTIVITIES

The following courses will be taught in Computer Laboratory:

- A. Business System and Technology
- B. PC Support 1-6
- C. Networking 1-6
- D. Web Design 1-6
- E. Directed Independent Study

IV. ORGANIZATIONAL NOMENCLATURE

Teacher - Student Ratio 1:20

Grade Levels for Which Program is Intended 9 - 12

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

- A. Think tank exercises with developmental opportunities. Simulation of network and internet service provider operations.

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.)

N/A

VIII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
				Information Technology			
212	3	Computer Labs		1,460	4,380	20	60
808	3	Material Storage		100	300		
812	3	Project Storage		150	450		
		Total			5,130		60

VIII. PROGRAM FURNITURE AND EQUIPMENT

A. Laboratory (per)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
30		X	Computer workstation with wire management
1		X	File cabinet, four-drawer, legal, lateral, lockable
1		X	Table, 30" x 72"
1		X	Bookcase
30-35		X	Chairs
1		X	Lectern
1		X	Stool
2	X		Marker board, 4' x 16', with map rails and flag holder
2	X		Tack Board, 4' x 4'
1	X		80"w x 60"h Video Format Screen with black masking borders
30		X	Computers
4		X	Printers
1		X	Computer and printer for teacher
2		X	Scanner
1		X	Exterior CD Burner, multiple slots
2		X	Multimedia computer stand
4		X	Computer wall unit
2		X	Heavy equipment worktables with stools
1		X	Network wall with lockable drawers
2		X	Computer racks on wheels with locks
1		X	Pencil sharpener, electric
1	X		Single sink with HW & CW
1	X		Clock
1	X		Multimedia cabinet (refer to General Considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

**Consult with SDPBC Program Management (Construction Liaison at-large)
for additional Furniture, Fixtures and Equipment.**

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

Refer to **GENERAL CONSIDERATIONS, GENERAL SECURITY
CONSIDERATIONS AND TRAFFIC CONTROL.**

- A. **Heating/Cooling/Ventilation** – As required to meet District Standards.
- B. **Acoustical** - As required to meet District Standards.
- C. **Floor** - As required to meet District Standards.
- D. **Walls** - As required to meet District Standards.
- E. **Ceiling** - As required to meet District Standards.
- F. **Lighting** - As required to meet District Standards.
- G. **Windows** - As required to meet District Standards. Provide observation windows between project storage and laboratory.
- H. **Doors** - As required to meet District Standards.
- I. **Water/Plumbing Fixtures** - As required to meet District Standards.
- J. **Communications** - As required to meet District Standards.
- K. **Electrical** - As required to meet District Standards. Provide one duplex outlet per station, plus one surge protector per station in laboratories; provide outlets for computers and tables on perimeter with sufficient amperage to run 35 computer devices.
- L. **Instruction Technology** - As required to meet District Standards.
- M. **Gas and Air** - As required to meet District Standards.
- N. **Safety** – As required to meet District Standards.
- O. **Fencing** – As required to meet District Standards.
- P. **Service Drives** – As required to meet District Standards.
- Q. **Parking** – As required to meet District Standards.

R. Built-ins**1. Built-in work/storage**

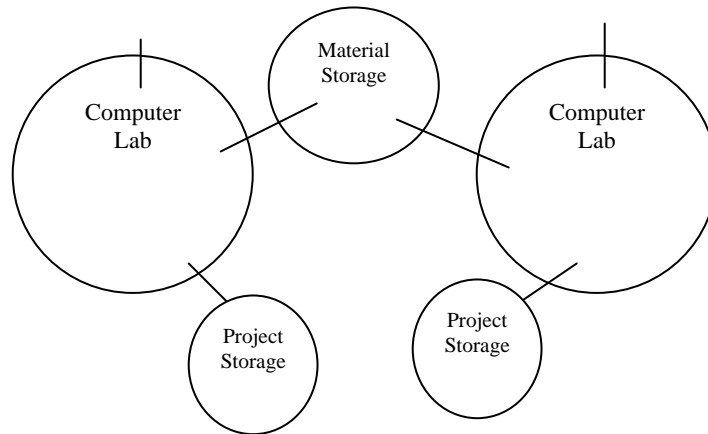
- a. **Laboratories** – Provide lockable upper and lower cabinets with sink and adjustable shelving. Provide built-in bookcase, 5'L x 15"D x 40"H with adjustable shelves. Provide Multimedia cabinet and workstation – refer to General Considerations.
- b. **Project Storage** – Provide cabinet (1), approximately, 7'H x 4'W x 18"D; with doors and adjustable shelving.
- c. **Material Storage** - Provide metal shelving with adjustable shelving on two (2) walls, floor to ceiling. Provide backing in walls to attach metal shelving.

S. Other Considerations

1. Provide data and electrical hook-ups in the project storage.

SPATIAL RELATIONSHIPS

Information Technology



Not all spaces are shown

MARINE – CAREER EDUCATION

I. PROGRAM PHILOSOPHY

The Marine Occupations Technology program provides students an opportunity to pursue a career in the marine industry.

II. PROGRAM GOALS

The purpose of this program is to provide students with an in depth understanding of marine industry opportunities, hands-on training in wooden and fiberglass boat building and repair, marine mechanical and electrical systems operation. Students will gain an understanding of proper and safe boat handling and navigation.

This program will provide students with a solid foundation into jobs in the marine industry or continue into a college or technical program path that suits their skills and desires upon graduation,

III. PROGRAM ACTIVITIES

The Marine Service program has a nine course sequence. The course content will include service/repair/overhaul of four-stroke and two-stroke cycle engines and outboard motors, and service and repair of boating accessories. With regards to the above, course content will include electrical systems, fuel systems, power transfer systems, ignition systems, cooling systems, lubrication systems, drive systems and boat and trailer rigging are emphasized as students prepare for employment as marine, outboard motor or machinery mechanics.

The Boat and Yacht Repair/Refinishing program has a nine course sequence. The course content includes instruction in precision wood and fiberglass work, manufacturing, fabrication, repair, painting and refinishing during the construction of 10-foot skiffs. Additionally, students learn US Coast Guard Safe Boating procedures and navigational skills, boat maintenance and operating procedures through local marine business partnership.

IV. ORGANIZATION NOMENCLATURE

Teacher - Student Ratio 1:20

Grade Levels for Which Program Is Intended 9 - 12

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

- A. Marine based field trips, i.e., marine boatyards and boat shows.
- B. Extensive project based training while building 10 foot Coast Guard Approved Skiff.
- C. Use of SDPBC and Marine Industry supported marine research vessel.

VI. JUSTIFICATION FOR VARIANCE FROM THE STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.)

- A. Create a separate flammable storage building near the marine career cluster.
- B. Create a paint booth in Yacht Building laboratory.
- C. Create a test room for Marine Engines Laboratory.
- D. Provide a fenced storage area.
- E. Provide a wash area with roof.
- F. Provide a fenced boat storage with roof.

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
<u>Marine Academy</u>							
246	1	Yacht Building Laboratory			4,000	20	20
840	1	Related Classroom			680		
808	1	Material Storage			100		
850	1	Tool Storage			195		
272	1	Paint Booth			500		
		Subtotal			5,475		
		-					
246	1	Marine Engines Laboratory			4,000	20	20
840	1	Related Classroom			680		
272	1	Test Room			310		
808	1	Material Storage			100		
850	1	Tool Storage			195		
		Subtotal			5,285		
		Shared Areas					
818	2	Locker Room		225	450		
847	1	Flammable Storage			350		
		Subtotal			800		
		Total			11,560		40

VIII. PROGRAM FURNITURE AND EQUIPMENT

A. Yacht Building Laboratory

1. Construction Area

No. of Items	Contractor Provided	District Provided (FF&E)	Description
10	X		Reels from ceiling for air and electric for 10 work areas, approximately 14' x 8' in size
5		X	Workbenches
10		X	Saw horse sets
		X	Various hand tools
1	X		Eye wash stations (per code)
1	X		Double industrial sink
1	X		Fire Extinguisher (per code)
1	X		Fire Blanket (per code)
1	X		First aid kit, mounted (per code)
1	X		Clock
	X		Built-ins (refer to special considerations)

2. Mill Shop Area

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Planer
5		X	Workbenches
1		X	Table Saw
1		X	Jointer
1		X	Lathe
1		X	Belt Sander
1		X	Band Saw
1		X	Floor grinder
1		X	Drill press
1	X		Compressor (refer the special considerations)
1	X		Eye wash stations (per code)
1	X		Double industrial sink
1	X		Fire Extinguisher (per code)
1	X		Fire Blanket (per code)
1	X		First aid kit, mounted (per code)
1	X		Clock
	X		Built-ins (refer to special considerations)

3. Prep Area

No. of Items	Contractor Provided	District Provided (FF&E)	Description
10	X		Reels from ceiling for air and electric for 3 work areas, approximately 14' x 8' in size
1		X	Fiberglass rack/storage, portable
3			Saw horse sets
		X	Various sanding equipment

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X		Compressor (refer the special considerations)
1	X		Eye wash stations (per code)
1	X		Double industrial sink
1	X		Fire Extinguisher (per code)
1	X		Fire Blanket (per code)
1	X		First aid kit, mounted (per code)
1	X		Clock
	X		Built-ins (refer to special considerations)

B. Marine Engines Laboratory

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X		Reels from ceiling for air, water and electric on side of each bay
1	X		Rail with electrical chain hoist
		X	Various hand tools
1	X		Various testing equipment
1		X	Glass bead cabinet
1	X		Eye wash stations
1	X		Double industrial sink
1	X		Fire Extinguisher
1	X		Fire Blanket
1	X		First aid kit, mounted
1	X		Clock
	X		Built-ins (refer to special considerations)

C. Related Classroom/Computer

No. of Items	Contractor Provided	District Provided (FF&E)	Description
30		X	Chair/desk
1		X	File cabinet, four-drawer, legal, lateral, lockable
1		X	Table, 30" x 72"
1		X	Bookcase
20-25		X	Chairs, stackable, 17", plastic
1		X	Lectern
1		X	Stool
2	X		Teacher storage cabinet, 36"W x 30"D x 72"H, with adjustable shelving, lockable
2	X		Marker board, 4' x 16', with map rails and flag holder
2	X		Tack Board, 4' x 4'
1	X		80" w x 60" h Video Format Screen with black masking borders
30		X	Computers
4		X	Printers
1		X	Computer and printer for teacher
1		X	Plotter
1		X	Pencil sharpener, electric
1	X		Fire Extinguisher

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X		Fire Blanket
1	X		First aid kit, mounted
1	X		Clock
1	X		Multimedia cabinet (refer to General Considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

Consult with SDPBC Program Management (Construction Liaison at-large) for additional Furniture, Fixtures and Equipment.

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

Refer to **GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROL.**

- A. **Heating/Cooling/Ventilation** - As required to meet District Standards. Provide separate exhaust, vacuum, dust collection and venting system for each section and room of Yacht Building laboratory and Marine Engine laboratory. Provide an air supply line for glass bead cabinet in Marine Engines Laboratory.
- B. **Acoustical** - As required to meet District Standards.
- C. **Floor** - As required to meet District Standards. Provide a ramp or incline from outside entrance of laboratory to the inside of laboratory for movement of boats and equipment.
- D. **Walls** - As required to meet District Standards. Provide 1/2 wall between hallway and bay areas in laboratory.
- E. **Ceiling** – As required to meet District Standards. Provide 18’ or 20’ ceilings in laboratory.
- F. **Lighting** - As required to meet District Standards. A master switch shall be located near the laboratory entrance
- G. **Windows** - As required to meet District Standards. Exterior windows provided in the laboratory areas shall have a means of light control. Provide observations windows between related classroom/computer, material storage and laboratory.
- H. **Doors** - As required to meet District Standards. Provide roll-up exterior doors to laboratory that must be wide enough for delivery of supplies and movement of equipment and boats.

- I. Water/Plumbing Fixtures** - As required to meet District Standards.
1. Each Laboratory:
 - a. Provide hose bibb throughout the laboratories.
 - b. Provide floor drains throughout the laboratories.
 - c. Provide water cooler, no electric eye drinking fountain.
 2. Provide hose bibbs at the outside areas.
- J. Communications** - As required to meet District Standards.
- K. Electrical** - As required to meet District Standards. Provide electrical outlets every 6' above work benches in bays. Provide electrical reels on side of each bay, where required. Provide electrical outlets in paint booth, wash area and covered storage area. Provide 2 – 220 volt electrical outlets in the Marine Engines laboratory and 1 –220 volt electrical outlet in Yacht Building laboratory for welding and other equipment.
- L. Instruction Technology** - As required to meet District Standards.
- M. Gas and Air** - As required to meet District Standards. Provide compressed air systems with outlets in laboratory, where required and on reels, where required.
- N. Safety** - As required to meet District Standards. Particularly hazardous equipment shall be clearly designated by bright red color.
- O. Fencing** - As required to meet District Standards. Provide a fence around the enclosed material storage and boat storage areas.
- P. Service Drives** - As required to meet District Standards. Easy access to back entrance for delivery of equipment and supplies.
- Q. Parking** – As required to meet District Standards.
- R. Built-ins** -
1. Laboratory:
 - a. Provide cabinets with doors with adjustable shelving, lockable.
 - b. Provide lumber storage racks and plywood racks in the Yacht Building Laboratory.

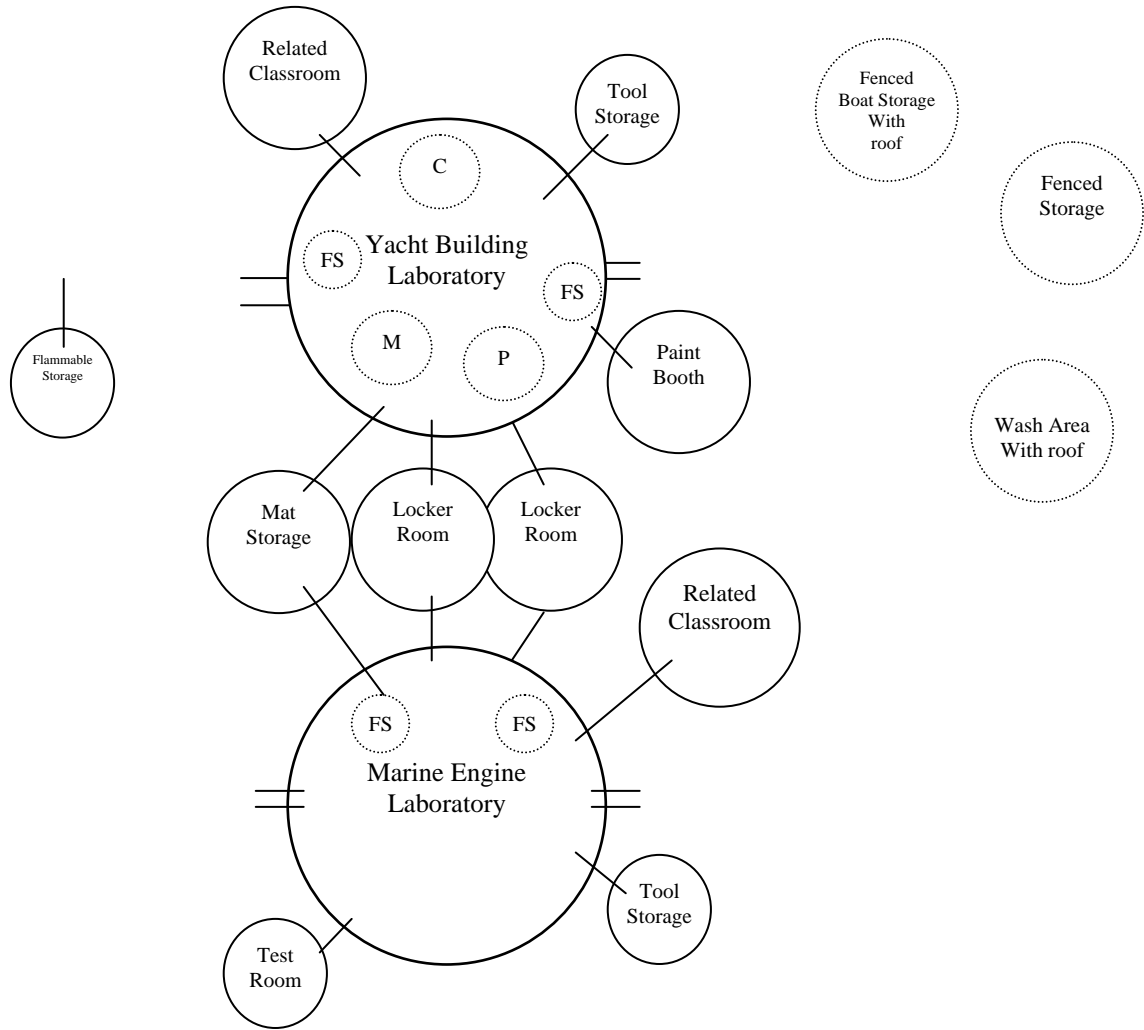
2. **Related Classroom/Computer**
 - a. Provide base cabinet with doors, lockable and adjustable shelves, 34"H, and upper cabinets with doors, lockable and adjustable shelves.
 - b. Provide built-in bookcase, 5'L x 15"D x 40"H with adjustable shelves.
 - c. Provide Multimedia cabinet and workstation - refer to General Considerations.
3. **Storage areas:**
 - a. Provide cabinets with doors with adjustable shelving, lockable.
 - b. Provide metal shelving with adjustable shelving.
4. **Locker Room:**
 - a. Provide ½ high wall lockers (100)

S. Other Considerations

1. Locate the marine bays on one side of the laboratory with the doors off center for the movement of boats in and out of the laboratory.
2. Provide air compressor, central system, in all laboratories located away from laboratories.
3. Provide vacuum system in the Yacht Building laboratory.
4. Provide an outside test cell area approximately 6' away from laboratory wall. Test cell shall be stainless steel and approximately 4' x 5' with 3' below ground and 2 ½' above ground.
5. Provide data, electric and phone in the Material Storage.

SPATIAL RELATIONSHIPS

Marine



FS = Flammable Storage
C = construction Area
M = Mill Shop
P = Prep Area

MARKETING - CAREER EDUCATION**I. MAJOR CONCEPTS/CONTENT**

Marketing Education in Palm Beach County is designed to prepare individuals to enter, progress, and/or improve competencies in marketing occupations. This includes combinations of subject matter and learning experience related to the performance of activities that direct the flow of goods and services from the producer to the consumer including selling, buying, transporting, storing, promoting, financing, marketing research, technology and management. Emphasizes will be placed on the development of attitudes, skills and understandings related to marketing, merchandising and management. Also, supervised on-the-job training provides opportunities for planned instructional activities and student evaluations in a specified job setting.

II. PROGRAM GOALS

The overall goals of the Marketing Education program are to provide a cooperative environment conducive to developing students as motivated, self-disciplined individuals, deliver a curriculum of academic challenges, skill development and career-related learning; develop caring, responsible, life-long learners; prepare graduates who are flexible and committed to technical competence; install social, leadership and problem-solving skills; and provide a structure to meet the requirements for gainful employment and entrepreneurship.

III. PROGRAM ACTIVITIES

In school laboratory activities are an integral part of this program. Equipment and supplies should be provided to enhance hands-on experiences for the students. Also, those laboratory activities provided through on-the-job training are an integral part of this program. Supervised on-the-job training, governed by a training agreement and an individualized training plan signed by the employer, teacher, student, and parent, is used in the classroom and on the job to enable the student to attain the competencies required for the selected occupation. The training plan shall include instructional objectives and a list of on-the-job-training and in-school experiences.

IV. ORGANIZATIONAL NOMENCLATURE

Teacher - Student Ratio 1:20

Grade Levels for Which Program Is Intended 9 - 12

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

Cooperative vocational education programs are designed to prepare students with wide variances in abilities for a broad range of occupational clusters. The cooperative program serves as an incentive for some students to complete their education.

VI. JUSTIFICATION FOR VARIANCE FROM S.R.E.F. REQUIREMENTS

A. School Store shall be located adjacent to Marketing Laboratory and related classroom.

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
<u>Marketing</u>							
222	1	Marketing Laboratory			1,100	20	20
808	1	Material Storage			100		
812	1	Project Storage			150		
840	1	Related Classroom			680		
310	1	School Store			250		
Total					2,280		20

VIII. PROGRAM FURNITURE AND EQUIPMENT

A. Marketing Laboratory

No. of Items	Contractor Provided	District Provided (FF&E)	Description
20		X	Student desk and chairs
1		X	Teacher desk,
1		X	Teacher chair
1		X	Side chair for teacher desk, no casters
15		X	Computer workstation with wire management
15		X	Computer
1		X	Inkjet Color Printer
1		X	Laser printer
1		X	Computer and printer for teacher
1		X	Scanner, color, full page, table top, with OCR editing software, cable
2		X	Mobile printer stands
1		X	Cash register
1		X	Assorted display props kit (mannequin), portable; portable lighting & electric sign board
1	X		Lighted wall display, 60" x 18" x 48", can be a corner display
1		X	Podium
2		X	Vertical File, four drawer, legal, lateral, with lock
4		X	Table, 72" x 30", laminated top, adjustable
1		X	Deluxe magazine display, 48" x 24" x 28"
4		X	U - shaped activity table
1		X	Color plotter, poster maker
1	X		80"w x 60"h Video Format Screen with black masking borders
2	X		Marker board, 4' x 16', with map rail and flag holder
2	X		Tack Board, 4' x 4'
1		X	Pencil sharpener, electric

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X		Sink, single, stainless steel (CW)
1	X		Clock
1	X		Multimedia cabinet (refer to General Considerations)
1	X	X	LCD Projector
1	X		Workstation (refer to General Considerations)
1		X	DVD/VCR Combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

B. School Store

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Cash register
2		X	Stool, high backed
1	X		Ice machine, small
1	X		Refrigerator
1	X		Sink, double stainless steel (CW/HW)
	X		Built-ins (refer to special considerations)

C. Related Classroom

No. of Items	Contractor Provided	District Provided (FF&E)	Description
20		X	Student desk and chair
1		X	File cabinet, four-drawer, legal, lateral, lockable
1		X	Table, 30" x 72"
1		X	Bookcase
1		X	Lectern
2		X	Hanger unit, stainless steel or chrome
3	X		Merchandise display, 7' adjustable sections, pegboard back, with adjustable shelving, stainless steel base, divider, header (with lighting) white frame, white pegboard and walnut trim
1		X	Stool
2	X		Teacher storage cabinet, 36"W x 30"D x 72"H, with adjustable shelving, lockable
2	X		Marker board, 4' x 8', with map rails and flag holder
2	X		Tack Board, 4' x 4'
1	X		80"w x 60"h Video Format Screen with black masking borders
4		X	Computers
2		X	Printers
1		X	Computer and printer for teacher
1			Pencil sharpener, electric
1	X		Sink, single, stainless steel
1	X		Clock
1	X		Multimedia cabinet (refer to General Considerations)
1	X		Workstation (refer to General Considerations)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	DVD/VCR Combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

Consult with SDPBC Program Management (Construction Liaison at-large) for additional Furniture, Fixtures and Equipment.

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

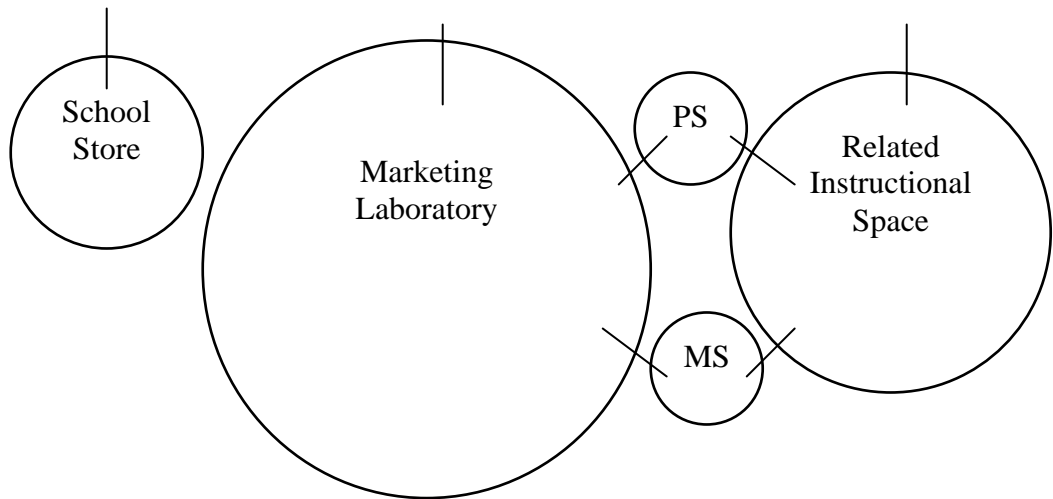
Refer to **GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROL.**

- A. **Heating/Cooling/Ventilation** - As required to meet District Standards.
- B. **Acoustical** - As required to meet District Standards.
- C. **Floor** - As required to meet District Standards.
- D. **Walls** - As required to meet District Standards.
- E. **Ceiling** - As required to meet District Standards.
- F. **Lighting** - As required to meet District Standards. Provide four drop spotlights with track lighting at the display window of the school store. Provide lighting for display case and showcase in classroom.
- G. **Windows** - As required to meet District Standards. There shall be a display window in the school store; preferably on an inside wall, 42" h x 8' w. Since this is a display window, there shall be minimum separations, frames, mullions, or tinting. Provide observation window between laboratory and project storage.
- H. **Doors** - As required to meet District Standards.
- I. **Water/Plumbing** - As required to meet District Standards. In laboratory, provide single sink with goose neck faucet (CW). In school store, provide sink with HW/CW, refrigerator, and small ice machine.
- J. **Communications** - As required to meet District Standards. Provide phone jack in the school store.
- K. **Electrical** - As required to meet District Standards.
- L. **Instructional Technology** - As required to meet District Standards.
- M. **Gas and Air** - As required to meet District Standards.

- N. **Safety** – As required to meet District Standards.
- O. **Fencing** - As required to meet District Standards.
- P. **Service Drives** - As required to meet District Standards.
- Q. **Parking** - As required to meet District Standards.
- R. **Built-ins**
 - 1. **School Store** - Provide service counter for inventory storage. Unit shall be 30'W, or distance from wall to wall, x 30"D x 48"H, with hinged section for entrance, recessed shelf for cash register. Counter shall contain three drawers, open adjustable shelves, lockable. Provide preparation counter on remaining wall.
 - 2. **Laboratory & Related Classroom**
 - a. Provide upper and base cabinet with sink and doors, lockable and adjustable shelf.
 - b. Provide built-in bookcase, 5'L x 15"D x 40"H with adjustable shelves.
 - c. Provide Multimedia cabinet and workstation – refer to General Considerations.
 - d. Provide work counter top on one (1) wall in laboratory.
 - b. **Project Storage** – Provide cabinet (1), approximately, 7'H x 4'W x 18"D; with doors and adjustable shelving.
 - c. **Material Storage** - Provide metal shelving with adjustable shelving on two (2) walls, floor to ceiling. Provide backing in walls to attach metal shelving.
- S. **Other Considerations** -
 - 1. School store shall be convenient to the marketing and related classrooms and shall be keyed separately, providing access only by the principal and marketing education instructor.
 - 2. Provide data and electrical hook-ups in the project storage.

SPATIAL RELATIONSHIPS

Marketing Education



MS = Material Storage
PS = Project Storage

MEDIA/FILM/TV PRODUCTION - CAREER EDUCATION

I. PROGRAM PHILOSOPHY

The media/film/TV production program provides an opportunity for students to secure jobs and provides leadership training experiences in the media/film/TV production field.

II. PROGRAM GOALS

The purpose of this program is to prepare students for employment in the broadcast media.

III. PROGRAM ACTIVITIES

The following courses will be taught in Media/Film/TV Production:

A. Television Production 1-11

IV. ORGANIZATIONAL NOMENCLATURE

Teacher - Student Ratio 1:25

Grade Levels for Which Program is Intended 9 - 12

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

A. Extensive hands experience with studio production, editing, sound and lighting.

B. Live broadcast and editing capabilities pf activities (i.e. plays, lectures, award ceremonies, sporting events, pep rallies, etc.)

C. Story Board planning, production, editing and copying.

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.)

A. Create editing booths from studio and storage NSF.

B. Create audio and control booth from storage NSF.

C. Locate TV Production studio near the school auditorium.

D. Create two studios of 1,620 NSF from the overall studio NSF.

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
				Media/Film/TV Production Academy			
243	2	Studio		1,620	3,240	12	24
852	1	Technology Resource Center			800		
867	1	Audio & Control Booth (NSF from storage)			600		
807	1	Equipment Storage			410		
272	6	Small editing booths (NSF from studio & storage)		40	240		
		Total			5,290		24

VIII. PROGRAM FURNITURE AND EQUIPMENT

A. Studio

No. of Items	Contractor Provided	District Provided (FF&E)	Description
3		X	Camera, studio model with dollies, tripods and cables, 6" monitor viewfinders, manual focus, manual zoom control, remote control, heavy-duty tripod
1		X	Teleprompter system with monitor, computer or manually driven, on each camera, optional, and must conform to G.I.
5		X	Hand-held microphone, with table stands and cables
2		X	Hand-held microphone, wireless
5		X	Microphone, lapel-directional with cables
5		X	Microphone, lapel wireless/battery operated
2		X	Microphone, lapel wireless/battery operated
2		X	Flat table microphone, with cables
2		X	Shotgun microphone, with large boom stands with cables
1	X		Switcher, video with ability to key video over video
1		X	Microphone mixer, eight-channel, with appropriate transformers
6		X	Monitor, color, thee on rack mounted tri-pac
3		X	VCR
1		X	CD audio system, broadcast quality, cueable
1		X	Cassette audio tape deck, broadcast quality with cables, cueable
1		X	SVHS editing system, including: character generator, video/audio switcher that can key video over video, editing VCR (3), monitor (3), CD audio system of professional quality, cassette audio tape deck of professional quality, with cables (separate from control room video production system)
12		X	Camcorder, inexpensive; one: SVHS, all with tripods
2		X	Mini-video light adapters for camcorders with battery

No. of Items	Contractor Provided	District Provided (FF&E)	Description
			charger
1		X	Preview station with television and VCR
1		X	Portable sound system including: 200W audio amplifier, 8-channel audio mixer, compact disc player, cassette deck, rack-mounted and all in protective case, plus speaker (2) and appropriate cables
8		X	Extension cord, one retractable
16		X	Extension cord, auto XLR (8), 25' (4), and 50' (4)
3		X	Cable extension for camera
1		X	Rectangular table, 60"
5		X	Chair
1		X	Adapter kits for audio and video, including digital connectors
1		X	Professional electronic tool kit
7		X	Headset with microphone, hardwired or wireless communication
2		X	Speaker, professional quality, one: powered
8		X	Step ladder, 6
3		X	Quartz 6" light on tripod with barn door
3		X	Flood/spotlight with barn door and clamp
1		X	Computer with broadcast and character generator software for editing and surge protector
1		X	Equipment rack and AC power strips
1		X	Headset for audio system
1		X	Channel combiner for channels 3 and 4
		X	Cable assortment, BNC, RCA, SVHS, 9 PIN
2		X	Audio monitor speaker small
1		X	Router switch, when more than three video origination points are provided
3		X	Editing station, digital
1		X	XLR audio
1		X	Large ladder
2	X		Teacher storage cabinet, 36"W x 30"D x 72"H, with adjustable shelving, lockable
2	X		Marker board, 4' x 16', with map rails and flag holder
2	X		Tack Board, 4' x 4'
1	X		80" w x 60" h Video Format Screen with black masking borders
1		X	Pencil sharpener, electric
	X		Built-ins (refer to special considerations)

B. Control Room/Audio Room

No. of Items	Contractor Provided	District Provided (FF&E)	Description
3		X	Video racks
1	X		Switcher
	X		18 channel audio console
1		X	Graphic computer

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Recorder
1	X		Routing switcher to send audio & video to each editing room
3	X		Three camera control units
1	X		Triple monitors
1	X		Line monitor
1	X		Video Switcher
1	X		Sound board for studio with wireless microphones & system
1	X		Computerized dimmer lighting board for theater
1	X		Projection areas on stage, in house, in booth
5		X	Stool
1	X		Projector with remote control for booth (that has a remote control at stage also)
1		X	File cabinets, four-drawer
	X		Hanging microphones
1		X	Audio console 3 cd player
1		X	Tape player
1		X	Turn table
1		X	Audio routing
1		X	Mic input for recording
1		X	Computer & printer
1	X		Clock
	X		Built-ins (refer to special considerations)

C. Related Classroom

No. of Items	Contractor Provided	District Provided (FF&E)	Description
20		X	Student desk and chair
1		X	File cabinet, four-drawer, legal, lateral, lockable
1		X	Table, 30" x 72"
1		X	Bookcase
1		X	Lectern
1		X	Stool
2	X		Teacher storage cabinet, 36"W x 30"D x 72"H, with adjustable shelving, lockable
2	X		Marker board, 4' x 8', with map rails and flag holder
2	X		Tack Board, 4' x 4'
1	X		80"w x 60"h Video Format Screen with black masking borders
4		X	Computers
2		X	Printers
1		X	Computer and printer for teacher
1		X	Pencil sharpener, electric
1	X		Clock
1	X		Multimedia cabinet (refer to General Considerations)
1	X		Workstation (refer to General Considerations)
1		X	DVD/VCR Combo

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

D. Editing Booths (per booth)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
2		X	Video Monitors
1		X	Computer
2		X	Monitors
2		X	Speakers
1		X	Table/Counter Top
1		X	Computer for video editing
3		X	Chair

Consult with SDPBC TEN and Program Management (Construction Liaison at-large) for additional Furniture, Fixtures and Equipment.

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

Refer to **GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROL.**

- A. Heating/Cooling/Ventilation** - As required to meet District Standards. Storage and equipment room shall have HVAC for equipment.
- B. Acoustical** - As required to meet District Standards. Provide sound-absorbing ceiling. Studio, editing rooms and control booth shall be soundproof.
- C. Floor** - As required to meet District Standards. The studio floor must be hard and smooth. Provide 6” ports, 6” off floor to run cables from studio to control room.
- D. Walls** - As required to meet District Standards. The TV Studio shall be equipped with double scrim curtain. A cyclorama (curved wall) shall be provided in one corner of the studio. There shall be no visible lines and the wall shall be painted chroma key blue or green. Studio walls shall not be backed up to restrooms.

- E. Ceiling** - As required to meet District Standards. Studio ceilings shall be approximately 25'.
- F. Lighting** - As required to meet District Standards. "In Use" lights above outside doors to alert visitors that rooms are "in use". Row lighting for studio ceiling. Place exit lights as appropriate. Mounted racked theatrical lighting for studio ceiling with adequate ceiling height for ceiling mounted lights. The batten/grid shall have 42 plugs for lights in the studio. The lighting batten in the studio shall have the ability to handle 24 one thousand watt lamps or 250 amps (see electrical). The batten must be 23' from the floor. Outlets in sidewalls to operate tripod mounted studio lights. Lights in the studio must be controllable from control room. No exterior windows in studio or control room.
- G. Windows** - As required to meet District Standards. Observation windows from related classroom to studio. Angled window between TV Production and TV Control with bottom at 32" above floor. Provide glass front for editing booths.
- H. Doors** - As required to meet District Standards. Provide a half glass door from the Control to Studio and related classroom to control room. Provide a set of double exterior doors for loading purposes, as close to the studio as possible. The equipment storage room door shall have a solid core and no door to the exterior of the building. Interior doors shall be half glass where appropriate. Studio shall have emergency doors exist to outside, with panic bar. No exterior hardware. Editing booth doors will have large glass panels.
- I. Water/Plumbing Fixtures** – As required to meet District Standards.
- J. Communications** - As required to meet District Standards
1. Intercom from central administration to all areas except studio.
 2. Intercom to control room shall have a lock-out feature with emergency override.
 3. Control room shall have phone; provide network wiring for intra and inter network communications.
 4. Voice data and network lines require built-in surge protection.
 5. ITV broadcast quality capability from control room, cafeteria, auditorium(s), principal's office, main sporting field, courtyards, and gym.
 6. Provide two-way intercom, access to Closed-Circuit TV, district network connection and telephone jack. All communications outlets shall be located on the teaching wall along with computer and electrical outlets for the teacher.

- K. Electrical** - As required to meet District Standards. Locate 125 volts, 20 amp receptacles near every ITV outlet. Computer outlets and wiring shall be provided. See lighting for batten in the studio. ITV outlets shall be available on at least two opposing walls of the main studio. Electrical box, circuit boards, etc. need to be in a separate room. Project storage area needs multiple outlets for various chargers.
- L. Instruction Technology** - As required to meet District Standards.
- M. Gas and Air** - As required to meet District Standards.
- N. Safety** - As required to meet District Standards. If glass is used in ITV, it shall be tempered 1/4" - 5/8".
- O. Fencing** – As required to meet District Standards.
- P. Service Drives** – As required to meet District Standards.
- Q. Parking** – As required to meet District Standards.
- R. Built-ins**
- 1. Built-in work/storage space**
 - a. Control Room**
 - (1) Provide base cabinet, 26"H, on wall, facing production studio, with plug molding at 28" above finished floor.
 - (2) Opposite wall, provide open base cabinets with one adjustable shelf, work surface counter top and open shelving above.
 - (3) Provide pegboard, 4' x 7', for cord storage on back wall of control room.
 - (4) Provide shelves above counter for video/cd storage.
 - (5) Provide 5 racks for equipment. Provide lockable access area behind rack system to allow for repair, upgrades and component change outs.
 - b. Studio**
 - (1) Provide cabinet for hanging costumes, lockable, in storage area, approximately 30 lineal feet.
 - (2) PVC conduit openings 4", between production studio and control

room, for cords at floor level.

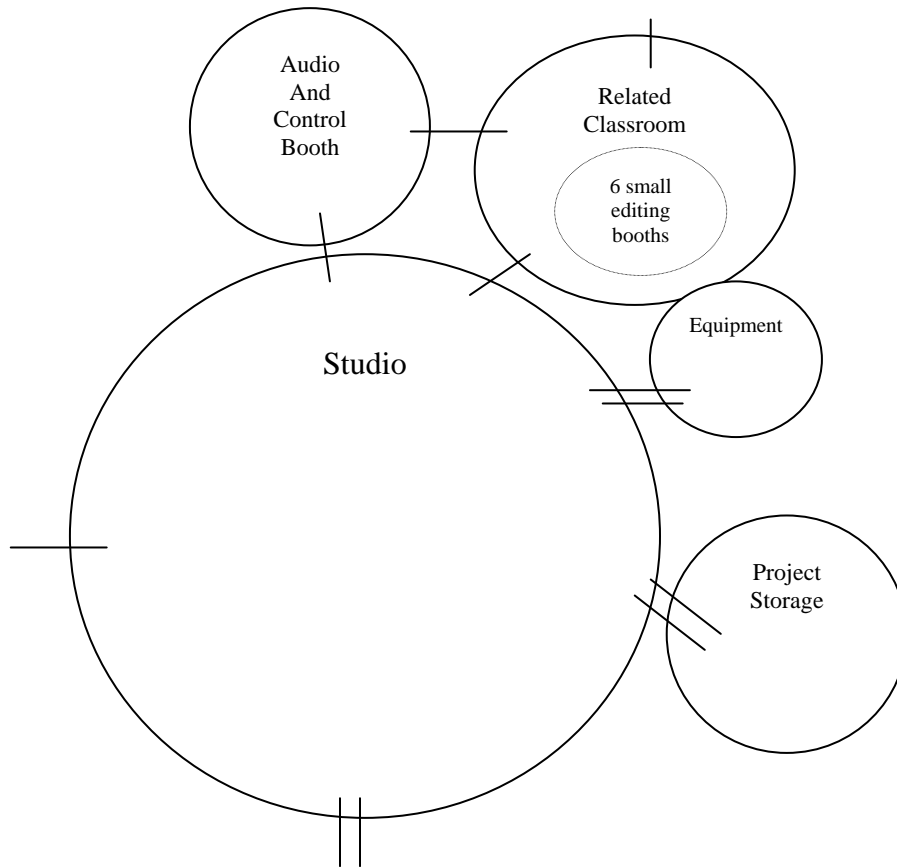
- (3) Provide pipe rail grid for production studio lighting; room lighting shall also be included.
 - (4) Provide double scrim curtain tract around one-half of production studio, opposite control room, ceiling mounted, 2' from walls.
 - (5) Must be sound proof space.
- c. **Editing Booth** – Do not have editing booth opening into the studio. Windows must be provided in the doors to allow for supervision.
- d. **Storage Room/Equipment Room.** – Provide large metal shelving, adjustable along two walls. Lockable upper and lower base cabinet with electric nearby. Equipment and Project Storage must have separate door locks, must be keyed differently than master school set.
- e. **Related Classroom** -
- (1) Provide base cabinet with doors, lockable and adjustable shelves, 24"H, and upper cabinets with doors, lockable and adjustable shelves.
 - (2) Provide built-in bookcase, 5'L x 15"D x 40"H with adjustable shelves.
 - (3) Provide computer counter to accommodate four (4) computers and two (2) printers (14'W x 30"D). The counter shall have grommets for wire management.
 - (4) Provide Multimedia cabinet and workstation – refer to General Considerations.

S. Other Considerations

1. Design production studio and control room so noise will not transmit from lavatory facilities, common halls, placement of HVAC or plumbing pipes.
2. ITV head-in amplifier shall be located in control if cable run is less than 500' from base of ITV tower.
3. Walking area in Control Room shall be at least 5' wide from wall to counter.
4. Locate studio near the auditorium to share dressing rooms.
5. **Architect shall contact TEN and appropriate School Choice Specialist for design and equipment.**

SPATIAL RELATIONSHIPS

Media/Film/TV Production



Locate near the school auditorium

J.R.O.T.C.**I. PROGRAM PHILOSOPHY**

The mission of J.R.O.T.C. is to acquaint secondary students with the aerospace age, develop informed citizens, strengthen character and promote an understanding of the role of the citizen in a democratic society.

II. PROGRAM GOALS

The J.R.O.T.C. curriculum integrates a minimum of 120 hours of course work and Leadership Education. The goals of the J.R.O.T.C. program include the following:

- A. Development of personal and leadership skills;
- B. Provide instruction in heritage and requirements of military;
- C. Provide positive examples of careers in civil and military careers.
- D. Provide instruction in military marching and ceremonies;
- E. Provide instruction in appropriate individual and group behavior;
- F. Present information in communication management.

III. PROGRAM ACTIVITIES**A. Classroom Activities****1. Classroom**

- a. Lecture
- b. Lecture/Discussion
- c. Demonstration
- d. Supervised study
- e. Small group discussion
- f. Role playing
- g. Individual skills development
- h. Testing
- i. Viewing of videos and films
- j. Listening to audio tapes
- k. Display of trophies
- l. Bulletin boards for activities

2. Arms Room (Secure)

- a. Storage of sidearms and rifles
- b. Storage of sabers
- c. Storage of flags
- d. Storage of ceremonial uniform items

3. Material Storage/Uniform (Secure)

- a. Fitting of uniforms
- b. Storage of uniforms and all associated items for 200 cadets
- c. Storage of military films

4. Conference Room/Teacher Planning

- a. Storage of teaching materials
- b. Computer for program management
- c. Storage of US military required publications
- d. Bulletin board for management notices
- e. Teacher planning

IV. ORGANIZATIONAL NOMENCLATURE

Teacher Student Ratio: 1:25

Grade Levels: 9-12

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

- A. Simulator used for instruction.
- B. Computers used for merits/demerits.
- C. Military Academic Honorary.
- D. A dressing room in material storage area for fitting and activity preparation.
- E. Use electronic bulletin board to advertise activities.
- F. Weather station.
- G. Material storage requires separate area for male and female uniforms.

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.)

- A. Conference Room will be divided into two spaces.
- B. Create two (2) classrooms and material storage from indoor firing range square footage.

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
<u>J.R.O.T.C.</u>							
708	1	JROTC Classroom/Laboratory			1,050	25	25
800	1	Arms Room			150		
801	2	Classrooms (from indoor firing range)		1,020	2,040		
802	2	Conference/office		110	220		
808	1	Material Storage/Uniform Storage			470		
TOTAL					3,930		25

VIII. PROGRAM FURNITURE AND EQUIPMENT

A. Classroom (per)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
25		X	Student desk combo
1		X	Lectern
1		X	Stool, 30"
1		X	Table, 30"W x 72"L
6		X	Chair
1		X	File cabinet, four-drawer, legal, lateral, lockable
4		X	Computer
2		X	Printer
1		X	Computer and printer for teacher
4		X	Flight simulator (Air Force)
2	X		Teacher Storage cabinet
1	X		Trophy case. Controlled light, located outside of classroom
1	X		Marker Board, 4' x 16', with map rail and flag holder
2	X		Tack Board, 4' x 4'
1	X		80"w x 60"h Video Format Screen with black masking borders
1		X	Pencil sharpener, electric
1	X		Clock
1	X		Multimedia cabinet (refer to General Considerations)
1	X		Workstation (refer to general considerations)
1		X	DVD/VCR combo
1		X	Document camera
1		X	Wireless laptop cart

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

B. Arms Room

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Teacher desk and chair
1		X	Stool, 30"
1		X	Table, 30"W x 72"L
6		X	Chair
1		X	File cabinet, four-drawer, legal, lateral, lockable
1		X	Computer
1		X	Printer
1	X		Tack Board, 4' x 4'
1	X		Clock
	X		Built-ins (refer to special considerations)

C. Material/Unifrom Storage

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	File cabinet, four drawer, legal, lateral, lockable
1	X		Mirrors, full length on dressing room door
1	X		Fire extinguisher
2		X	Storage bin for dirty uniforms with hinged top that swings up and a hinged door in front that swings out, 32"H x 32"W x 32"D
	X		Built-ins (refer to special considerations)

D. Conference Room/Office (per)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Teacher desk and chair
1		X	Table, 6'
6		X	Chair
1		X	File cabinet, four-drawer, legal, lateral, lockable
1		X	Computer
1		X	Printer
1	X		Marker board, 4' x 8', with map rail and flag holder
1	X		Tack Board, 4' x 4'
1	X		Clock

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

Refer to **GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROL.**

- A. **Heating/Cooling/Ventilation** - As required to meet District Standards.
- B. **Acoustical** - As required to meet District Standards.
- C. **Floor** - As required to meet District Standards.
- D. **Walls** - As required to meet District Standards.
- E. **Ceiling** - As required to meet District Standards.
- F. **Lighting** - As required to meet District Standards.
- G. **Windows** - As required to meet District Standards. Provide bars on the arms room and material storage rooms to protect equipment.
- H. **Doors** - As required to meet District Standards. All rooms must have dead bolt locks, except dressing room.
- I. **Water/Plumbing Fixtures** - As required to meet District Standards.
- J. **Communications** - As required to meet District Standards. Conference room/office requires telephone jacks for counseling, scheduling of numerous school activities and contact with military representatives. Two phone lines in addition to standard system.
- K. **Electrical** - As required to meet District Standards.
- L. **Instructional Technology** - As required to meet District Standards.
- M. **Gas and Air** - As required to meet District Standards.
- N. **Safety** – As required to meet District Standards.
- O. **Fencing** - As required to meet District Standards. Provide mesh/chain link fencing in the material/uniform storage.
- P. **Service Drives** – As required to meet District Standards.
- Q. **Parking** - As required to meet District Standards.

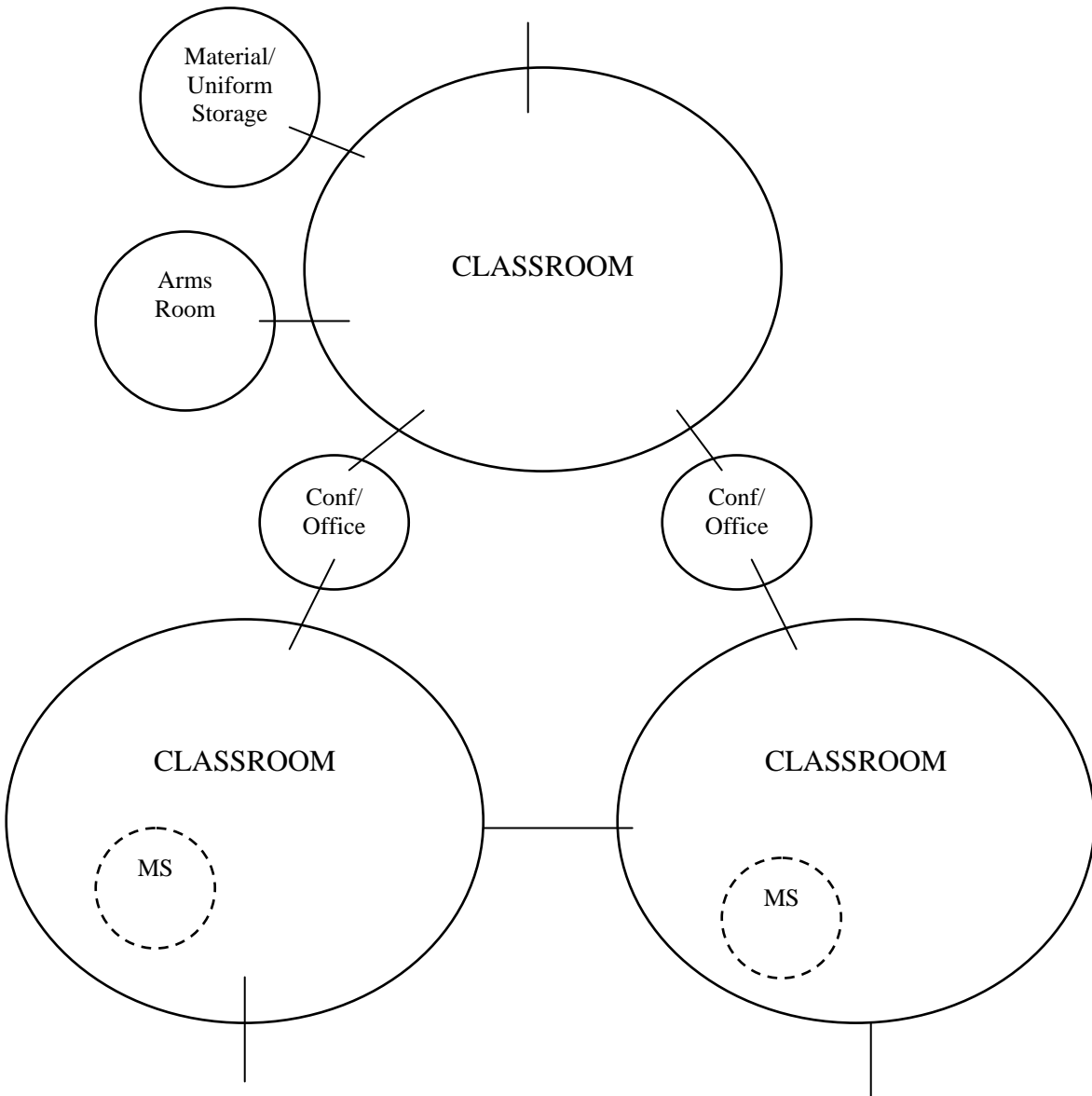
R. Built-ins

1. Material/Uniform Storage Room -
 - a. Provide counter, 24'L x 32"W x 34"H, with adjustable rows of shelves under counter, approximately, 15" x 15", accessible from one side only and electrical outlet in the counter.
 - b. Provide 1 and 2 tiered rod system with shelves above for uniform storage.
 - c. Provide a dressing room area with curtain in the material storage room.
 - d. Provide full length mirror, locate one in the dressing room and one on any convenient wall.
 - e. Provide metal shelving (3 – 36" w x 18" d x 80" h) in material storage rooms.
2. Arms Room -
 - a. Provide gun rack, lockable to hold 24-40 simulated rifles
3. Classroom -
 - a. Provide shelf (5), 1' vertical separation, 14"D.
 - b. Provide base cabinet with doors, lockable and adjustable shelves, 34"H, and upper cabinets with doors, lockable and adjustable shelves.
 - c. Provide built-in bookcase, 5'L x 15"D x 40"H with adjustable shelves.
 - d. Provide computer counter to accommodate four (4) computers and two (2) printers (14'W x 30"D). The counter shall have grommets for wire management.
 - e. Provide Multimedia cabinet and workstation - refer to General Considerations.

S. Special Considerations -

1. Contractor to provide an outdoor firing range to meet armed force requirement/criteria.
2. Contractor to provide an outside 90' x 90' flat, asphalt area for drills.

SPATIAL RELATIONSHIPS
J.R.O.T.C.



MS = Material Storage

RADIO PRODUCTION - CAREER EDUCATION

I. PROGRAM PHILOSOPHY

The Radio Production program provides an opportunity for students to secure jobs and provides leadership training experiences in the radio production field.

II. PROGRAM GOALS

The purpose of this program is to prepare students for employment in the broadcast media.

III. PROGRAM ACTIVITIES

Lab activities include operation of equipment, writing commercial copy for spots, preparing, writing and editing news and weather reports, speech and voice control, recording, editing, transferring and manipulating sound.

IV. ORGANIZATIONAL NOMENCLATURE

Teacher - Student Ratio 1:25

Grade Levels for Which Program is Intended 9 - 12

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

Extensive hands experience with radio production, editing, and sound.

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.)

A. Locate Radio Production near Media/Film/TV Production.

B. Equipment Storage shall be shared between TV Studio and Radio Studio.

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
<u>Radio Production</u>							
241	1	Studio			900	25	25
852	1	Technology Resource			800		
867	1	Radio Control Room			200		
807	1	Equipment Storage			205		
272	6	Small editing booths		70	420		
		TOTAL			2,525		25

VIII. PROGRAM FURNITURE AND EQUIPMENT

A. Studio

No. of Items	Contractor Provided	District Provided (FF&E)	Description
	X	X	Various radio/audio equipment
2-4		X	Rectangular table, 60"
5-10		X	Chair
			Computers & printers
2	X		Teacher storage cabinet, 36'W x 30"D x 72"H, with adjustable shelving, lockable
2	X		Marker board, 4' x 8', with map rails and flag holder
2	X		Tack Board, 4' x 4'
1	X		80"w x 60"h Video Format Screen with black masking borders
1		X	Pencil sharpener, electric
	X		Built-ins (refer to special considerations)

B. Control Room

No. of Items	Contractor Provided	District Provided (FF&E)	Description
	X	X	Various radio/audio equipment
1	X		Clock
	X		Built-ins (refer to special considerations)

C. Editing Booths (per booth)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
	X	X	Various radio/audio equipment
1		X	Table
1		X	Computer
3		X	Chair

D. Technology Resource

No. of Items	Contractor Provided	District Provided (FF&E)	Description
20		X	Student desk and chair
1		X	File cabinet, four-drawer, legal, lateral, lockable
1		X	Table, 30" x 72"
1		X	Bookcase
1		X	Lectern
1		X	Stool

No. of Items	Contractor Provided	District Provided (FF&E)	Description
2	X		Marker board, 4' x 8', with map rails and flag holder
2	X		Tack Board, 4' x 4'
1	X		80''w x 60''h Video Format Screen with black masking borders
4		X	Computers
2		X	Printers
1		X	Computer and printer for teacher
1			Pencil sharpener, electric
1	X		Clock
1	X		Multimedia cabinet (refer to General Considerations)
1	X		Workstation (refer to General Considerations)
1		X	DVD/VCR Combo
1		X	Document camera
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

Consult with SDPBC Program Management (Construction Liaison at-large) for additional Furniture, Fixtures and Equipment.

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

Refer to **GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROL.**

- A. **Heating/Cooling/Ventilation** - As required to meet District Standards. Storage and equipment room shall have HVAC for equipment.
- B. **Acoustical** - As required to meet District Standards. Provide sound-absorbing ceiling. Studio, editing rooms and control booth shall be soundproof.
- C. **Floor** - As required to meet District Standards. The studio floor must be hard and smooth. Provide channels to run cables to control room.
- D. **Walls** - As required to meet District Standards.
- E. **Ceiling** - As required to meet District Standards. Studio ceilings shall be approximately 9'.
- F. **Lighting** - As required to meet District Standards. Lights above outside doors to alert visitors that rooms are "in use". Row lighting for studio ceiling. Place exit lights as appropriate.

- G. **Windows** - As required to meet District Standards. Observation windows from related classroom to studio. Angled window between Studio and Control with bottom at 32" above floor. Provide glass front for editing booths.
- H. **Doors** - As required to meet District Standards. Provide a half glass door from the Control to Studio. Provide a set of double exterior doors for loading purposes, as close to the studio as possible. The equipment storage room door shall have a solid core. Interior doors shall be half glass where appropriate.
- I. **Water/Plumbing Fixtures** – As required to meet District Standards.
- J. **Communications** - As required to meet District Standards
 - 1. Intercom from central administration to all areas except studio.
 - 2. Intercom to control room shall have a lock-out feature with emergency override.
 - 3. Control room shall have phone; provide network wiring for intra and inter network communications.
 - 4. Voice data and network lines require built-in surge protection.
 - 5. Broadcast capability from control room, cafeteria, auditorium(s), principal's office, main sporting field, courtyards, and gym.
- K. **Electrical** - As required to meet District Standards.
- L. **Instruction Technology** - As required to meet District Standards.
- M. **Gas and Air** - As required to meet District Standards.
- N. **Safety** - As required to meet District Standards.
- O. **Fencing** – As required to meet District Standards.
- P. **Service Drives** – As required to meet District Standards.
- Q. **Parking** – As required to meet District Standards.
- R. **Built-ins**
 - 1. **Built-in work/storage space**
 - a. **Control Room**
 - (1) Provide base cabinet, 26"H, on wall, facing production studio, with plug molding at 28" above finished floor.

- (2) Opposite wall, provide open base cabinets with one adjustable shelf, work surface counter top and open shelving above.
- (3) Provide pegboard, 4' x 7', for cord storage on back wall of control room.
- (4) Provide shelves above counter for video/cd storage.

b. Studio

- (1) PVC conduit openings 4", between production studio and control room, for cords at floor level.
- (2) Provide pipe rail grid for production studio lighting; room lighting shall also be included.

c. Project Storage Room. – Provide large metal shelving, adjustable along two walls.

d. Technology Resource -

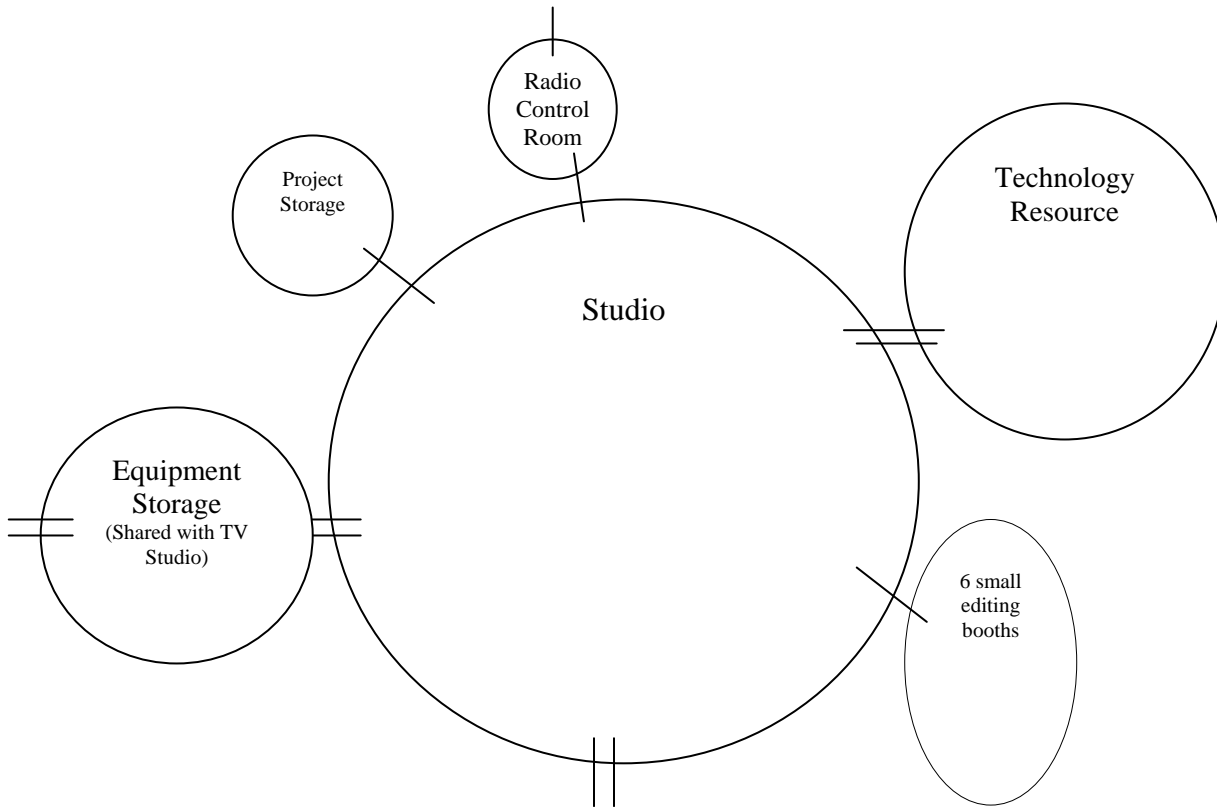
- (1) Provide base cabinet with doors, lockable and adjustable shelves, 24"H, and upper cabinets with doors, lockable and adjustable shelves.
- (2) Provide built-in bookcase, 5'L x 15"D x 40"H with adjustable shelves.
- (3) Provide computer counter to accommodate four (4) computers and two (2) printers (14'W x 30"D). The counter shall have grommets for wire management.
- (4) Provide Multimedia cabinet and workstation – refer to General Considerations.

R. Other Considerations

1. Design studio and control room so noise will not transmit from lavatory facilities, common halls, placement of HVAC or plumbing pipes.
2. Walking area in Control Room shall be at least 5' wide from wall to counter.
3. Locate studio near the auditorium and TV Studio.
4. The architect shall work with The Educational Network (TEN) staff with regards to the placement of furniture, fixture, equipment (FF&E), built-ins, utilities, data, electrical, etc. for the design of the Radio Production area.

SPATIAL RELATIONSHIPS

Radio Production



Locate near the school auditorium

TECHNOLOGY EDUCATION – CAREER EDUCATION**I PROGRAM PHILOSOPHY**

Technology Education is a comprehensive action-based educational program concerned with technical means, their evolution, utilization, and significance; with industry, its organization, personnel, systems, techniques, resources, and products; and their social/cultural impact.

II. PROGRAM GOALS

The program is designed to provide students with an in-depth foundation for career preparation at the secondary or post-secondary levels. Students will gain skills leading to consumer awareness and personal enrichment as well as occupational readiness.

III. PROGRAM ACTIVITIES**A. General Activities (applicable to all laboratories)**

1. Applying problem solving techniques
2. Applying tools, materials, processes, and technical concepts safely and efficiently
3. Designing and developing
4. Applying other school subjects
5. Dealing with forces that influence the future
6. Experimenting in the laboratory
7. Becoming a wiser consumer
8. Making informed career choices

B. Specific Activities**1. Drafting/Illustrative Design Technology Laboratory**

- a. Operating a computer utilizing a CAD program
- b. Making computer assisted drawings (CAD)
- c. Making orthographic, pictorial, auxiliary view, and sectional view drawings
- d. Making engineering and architectural drawings

2. Communications Technology Laboratory

- a. Operating a computer utilizing a desktop publishing program
- b. Producing printed copies
- c. Using the screen printing process
- d. Using binding and finishing processes
- e. Using video camera equipment
- f. Using video and audio editing equipment

3. Engineering Technology Laboratory

- a. Demonstrating and applying fluid system principles
- b. Demonstrating and applying thermal system principles

- c. Demonstrating and applying electrical system principles
- d. Demonstrating and applying mechanical system principles
- e. Communicating through oral, written, or graphical means the results of solutions of designs
- f. Demonstrating graphical literacy and use of graphical representation in analysis and design
- g. Demonstrating engineering analysis and design methods
- h. Using tools, machines, calculators, and computers necessary for obtaining solutions to design problems
- i. Conducting research and experimentation and/or designing a project on engineering technology

4. Production Technology Laboratory

- a. Performing processing skills on industrial materials and composites
- b. Producing custom products from industrial materials and composites using preprocessing, processing, and postprocessing production technology skills
- c. Planning and participating in a mass production system for manufacturing a product
- d. Performing technological processes of separating and forming materials
- e. Utilizing modern production technology in the processes of separating, forming, combining, fabrication and finishing of materials utilizing CAM and CNC
- f. Conducting research and experimentation projects on a production technology system
- g. Demonstrating technological knowledge and skills in the designing and engineering of constructed works
- h. Demonstrating technical knowledge and skills in the contracting, estimating, bidding, and scheduling procedures processes

IV. ORGANIZATIONAL NOMENCLATURE

Teacher - Student ratio: 1:25

Grade levels for which program is intended: 9-12

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USE

N/A

VI. JUSTIFICATION FOR VARIANCE FROM STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (S.R.E.F.)

N/A

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
<u>Technology</u>							
242	1	Drafting & Design			2,375	25	25
810	1	Material Storage			395		
		Subtotal			2,770		
243	1	Communication			3,375	25	25
852	1	Technology Resource			800		
808	1	Material Storage			100		
810	1	Material Storage			395		
849	1	Project Storage			310		
		Subtotal			4,980		
243	1	Engineering			3,375	25	25
852	1	Technology Resource			800		
808	1	Material Storage			100		
810	1	Material Storage			395		
849	1	Project Storage			310		
		Subtotal			4,980		
243	1	Production/Construction			3,375	25	25
852	1	Technology Resource			800		
808	1	Material Storage			100		
810	1	Material Storage			395		
849	1	Project Storage			310		
851	1	Tool Storage			310		
		Subtotal			5,290		
		TOTAL			18,020		100

II. PROGRAM FURNITURE AND EQUIPMENT**A. Drafting and Design Technology Laboratory**

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Teacher chair, pneumatic lift, non-tilt, caster base, armless
1		X	Teacher demonstration table, 96" x 30" x 34", with 1 1/2" laminate top, double-door base unit with two adjustable shelves, five-drawer base unit, modesty panel, master keyed cylinder locks and pulls
1		X	Filing cabinet, two-drawer, legal, lockable
2		X	File cabinet, four-drawer, legal, lateral, lockable
1	X		Display rack, magazine style; 42"W x 18"D x 60"H, eight shelves
32		X	Computer Aided Drafting (CAD) Table, 48"L x 30"D, with wire management
32			Student chair, pneumatic lift, non-tilt, caster base, armless

No. of Items	Contractor Provided	District Provided (FF&E)	Description
32		X	Computer
1		X	Computer and printer for teacher
33		X	Various software
1		X	Printer- Laser 11" X 17" capability
1		X	Plotter
1		X	Copier
4		X	Steel workbenches, 36" x 72"
2	X		Marker board, 4' x 16', with map rail and flag holder
2	X		Tack Board, 4' x 4'
1	X		80"W X 60"H Video Format Screen with black masking borders
1		X	Pencil sharpener, electric
	X		Fire extinguishers, per code
1	X		Fire blanket, wall-mounted, per code
1	X		First Aid kit, wall mounted, per code
1	X		Provide stainless steel sink, 18"D x 24"W, with hot and cold water
1	X		Clock
1	X		Multimedia cabinet (refer to General Considerations)
1	X		Workstation (refer to General Considerations)
1		X	DVD/VCR Combo
1		X	Document Camera
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

B. Communication Technology Laboratory

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Teacher's chair, pneumatic lift, non-tilt, caster base, armless
1		X	Teacher demonstration table, 96" x 30" x 34", with 1 1/2" laminate top, double-door base unit with two adjustable shelves, five-drawer base unit, modesty panel, master keyed cylinder locks and pulls
4		X	Quad-type work station, eight students each
32		X	Computers
8		X	Printers
2		X	Scanner
1		X	Computer and printer for teacher
		X	Various computer software
1		X	Digital video production and editing package, includes computer, digital camcorder (2); super VHS video cassette recorder, monitor (2), and power switching, 115V, 3.5A
1		X	Video digitizer, 24 - bit video frame grabber, with software
32			Student desks
32		X	Student chair, pneumatic lift, non-tilt, caster base, armless, for workstations
2		X	File cabinet, four drawer, legal, lateral, lockable

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Filing cabinet, two-drawer, legal, lockable
1		X	Light table, 42" x 62" top, floor model, 115V, 1A
1	X		Magazine rack, 42"W x 18"D x 60"H, eight shelves
1		X	Paper drill, counter top model, 18" x 18," 115V, 5.5A
1		X	Paper jogger, counter top model, 20"W x 14"D, 115V, 2A
1		X	Copier
1		X	Paper cutter, 25" electric, including stand, 40"W x 50", 2 HP three-phase motor, 230V, 11A
1		X	Stapler, counter top model, heavy duty, electric, with saddle and flat attachments, 115V, 1A
1		X	Paper folder, 40"W x 18"D, counter top model, with slitting, scoring, and perforating capabilities, 115V, 3.6A
1		X	Collator, 12-page, 22"W x 15"D x 15"H, counter top model, 115V, 3A
1		X	Drying rack, 36"W x 26"D, 50 shelves
1		X	Silk screen printer, 96" diameter, carousel type, four color, work station (4), child and adult size shirt boards, stand, with sleeve, cap, and jacket printing attachments
1		X	Dryer, 72"L x 26"W x 59"H, textile, with legs, 20"W belt, infrared/convection heat, 6" diameter power exhaust, 230V, 15A
1		X	Laminating press, counter top model, with supplies, 18" x 23" platen, 115V, 11.3A
1	X		Marker Board, 4' x 16' with map rail and flag holder
3		X	Work bench, 72"W x 28"D x 34"H, steel, with shelf and stringer
2	X		Tack Board, 4' x 8'
1	X		80" w x 60" h Video Format Screen with black masking borders
1		X	Pencil sharpener, electric
1	X		First Aid kit, wall mounted
1	X		Large stainless steel sink, with hot and cold water, approximately 24"D x 36"W x 12", for cleaning screen printing screens. Located in storage room.
1	X		Provide stainless steel sink, 18"D x 24"W, with goose neck faucet, hot and cold water
1	X		Clock
1	X		Multimedia cabinet (refer to General Considerations)
1	X		Workstation (refer to General Considerations)
1		X	DVD/VCR Combo
1		X	Document Camera
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

C. Engineering Technology Laboratory

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Teacher chair, pneumatic lift, non-tilt, caster base, armless
1		X	Teacher demonstration table, 96" x 30" x 34", with 1

No. of Items	Contractor Provided	District Provided (FF&E)	Description
			1/2" laminate top, double-door base unit with two adjustable shelves, five-drawer base unit, modesty panel, master keyed cylinder locks and pulls
1		X	File cabinet, four-drawer, legal, lateral, lockable
1		X	Filing cabinet, two-drawer, legal, lockable
1	X		Magazine rack, 42"W x 18"D x 60"H, eight shelves
32		X	Student Computer tables with wire management
32		X	Student chair, pneumatic lift, non-tilt, caster base, armless, for work stations
8		X	Work Tables, rectangular, 72" X 36"
1		X	Hand tools, assorted, including basic woodworking and mechanical tools
1		X	Tool storage cabinet, 62"W x 22"D x 84"H, general shop, without tools, constructed of hard maple framing with hardwood plywood panels, with master keyed locks
1		X	Cabinet, 72"W x 30"D x 34"H, sliding door, steel base with double sliding doors, one adjustable shelf, cylinder lock, 2' thick maple top
2		X	Work bench, 64"W x 28"D x 34"H, two-station, base consists of one heavy gauge steel unit, with double swinging doors and cylinder lock, top is constructed from hard rock maple, with one wood-working vise
2		X	Cabinet, 60"W x 30"D x 34"H, sliding door, steel base with double sliding doors, one adjustable shelf, cylinder lock, 2" thick maple top
1		X	Tool storage cabinet, 60"W x 22"D x 84"H, for portable power tools and robot arms, two sections, each with five adjustable shelves, constructed of hard maple framing and hardwood plywood panels, with master keyed locks
32		X	Computer
2		X	Printer
1		X	Computer and printer for teacher
3	X		Reels from ceiling for air and electric on side
1		X	Air compressor, portable
1		X	Robotic arm, advanced robotic arm with teach through nose software, including: curriculum and instructional packages, Vision System, linear conveyor, rotary table, linear slide base, two experimenter tables, end effector package, D.C. servo motor kit, gravity feeder, infra-red sensor, integration manual, and bar stock gripper adapter
1		X	Computer Numerical Controlled (CNC) metal lathe, bench-top model, lathe machinist kit, air chuck robotic interface, pneumatic lathe shield opener, CAD/CAM software, 200-2000 RPM, 1HP single phase motor, 115V, 12A
1		X	Mobile service bench, for CNC metal lathe, 5" casters, 42"W x 24"D x 28"H
1		X	Computer Numerical Controlled (CNC) milling machine, 24"W x 22"D bench-top model, with Lexan safety shield, air vise robotic interface, milling machinist kit, quick-change tooling, CAD/CAM software and documentation, 1HP DC motor, 115V,

No. of Items	Contractor Provided	District Provided (FF&E)	Description
			15A
1		X	Mobile Computer Integrated Manufacturing (CIM) bench (2), 36" x 72", steel, with controller mounting modules Type 1 and 2, keyboard/monitor mounting module, utilities distribution module, electrical power module, compressed air distribution module, quick release connector, and monitor multiplexer
1		X	Band saw, 8", bench-top mounted, with miter gauge, 1/5 HP single phase motor, 115V, 2.5A
1		X	Scroll saw, 20", bench-top mounted, tilting table, multi-speed, with blades and accessories, single phase motor, 115V, 2A
1		X	Drill press, 14", bench-top model, five spindle speeds, 1/2" chuck, 11"W x 25"D, 1 HP single phase motor, 115V, 10A
1		X	Combination belt/disc sander, 1" belt/8" disc, bench-top model, with miter gauge, 15"W x 24"D, 1 HP single phase motor, 115V, 10A
1		X	Tool grinder, 6," bench-top model, with two-piece tool rests, exhaust-type guards, two wheels (one, 36 - grit and one, 60 - grit), 1 HP single phase motor, 115/230V, 10/5A
1		X	Utility vise, 5" jaw width, 5-1/2" opening, with replaceable serrated steel jaws, built-in steel pipe jaws, swivel base
2		X	Vacuum cleaner, 28 - gallon, with 6' x 2-1/2" hose, extension wands and nozzle, 115V, 10A
1		X	Drill, variable speed, reversing, 1/2" chuck, 115V, 4A
2		X	Bench, steel, open base, 72"W x 30"D
1	X		Safety glasses cabinet, with glasses, sterilized
1		X	Structural technology module, with structural tester (counter top model), videos, projects, software and manuals
1		X	Electricity and electronics module, with trainer, tools, meters, leads and curriculum, 115V, 1A
1		X	Hydraulics module, with lockable steel case, counter top, components, video, instructor notes and curriculum
1		X	Pneumatics module, with lockable steel case, counter top, components, video, instructor notes and curriculum
1		X	Mechanisms module, with lockable steel case, counter top, components, video, instructor notes and curriculum
1		X	Oily waste can, six gallon
2	X		Marker board, 4' x 16', with map rail and flag holder
2	X		Tack Board, 4' x 4'
1	X		80"w x 60"h Video Format Screen with black masking borders
1		X	Pencil sharpener, electric
	X		Fire extinguishers, per code
1	X		Fire blanket, wall-mounted
1	X		First Aid kit, wall mounted
1	X		Provide stainless steel sink, 18"D x 24"W, with hot and cold water
1	X		Clock
1	X		Multimedia cabinet (refer to General Considerations)

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1	X		Workstation (refer to General Considerations)
1		X	DVD/VCR Combo
1		X	Document Camera
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

D. Production/Construction Laboratory

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Teacher chair, pneumatic lift, non-tilt, caster base, armless
1		X	Teacher demonstration table, 96" x 30" x 34", with 1 1/2" laminate top, double-door base unit with two adjustable shelves, five-drawer base unit, modesty panel, master keyed cylinder locks and pulls
1		X	Teacher drafting stool, pneumatic lift, non-tilt, caster base, armless
1		X	Filing cabinet, two-drawer, legal, lockable
1		X	File cabinet, four-drawer, legal, lateral, lockable
8		X	Computer
1	X		Magazine rack, 42"W x 18"D x 60"H, eight shelves
1		X	Computer and printer for teacher
4		X	Computer work stations for students with wire management
2		X	Printer
		X	Various software
4		X	Student chair, pneumatic lift, non-tilt, caster base, armless, for work stations
32		X	Student desks
6		X	Cabinet, 72"W x 30"D x 34"H, sliding door, steel base with double sliding doors, one adjustable shelf, cylinder lock, 2" maple top
4	X		Reels from ceiling for air and electric on side
1		X	Air compressor, portable
4		X	Workbench, 64"W x 54"D x 34"H, four-station, base consists of heavy gauge steel unit (2), each with sliding double doors and cylinder locks; top is constructed from hard rock maple, with four woodworking vises
1		X	Tool storage cabinet, 62"W x 22"D x 84"H, general shop, with tools, constructed of hard maple framing with hardwood plywood panels, with master keyed locks
1		X	Tool storage cabinet, 60"W x 22"D x 84"H, for portable power tools, two sections, each with five adjustable shelves, constructed of hard maple framing and hardwood plywood panels, with master keyed locks
2		X	Band saw, 14", 25"W x 18"D, with enclosed stand, miter gauge and rip fence, wheel and blade guards, arbor and motor pulleys, V-belt, blade guides, wood cutting blade, magnetic control switch, 1 HP single phase motor, 230V, 7A

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Planer, 20", 230v, 3 phase
2		X	Scroll saw, 20," bench-top mounted, tilting table, multi-speed, with blades and accessories, single phase motor, 115V, 2A
2		X	Power miter box saw, 12," compound cut, bench-top mounted, with 10" steel blade, clear view retractable blade guard, dust bag, electric blade, work supports, clamp and stock stop, 115V, 15A
1		X	Drill press, 14", 11" x 25"D, bench-top model, five spindle speeds, 1/2"chuck, 1 HP single phase motor, 115V, 10A
1		X	Combination belt/disk sander, 30"W x 25"D x 56"H, 6" belt/12" disc, with tilting tables, 4" arbor pulley, V-belt, 80 - grit garnet belt, 50 - grit garnet disc, stand, auto-set miter gauge, and dust control package, 1 1/2 HP single phase motor, 230V, 10A
1		X	Combination belt/disc sander, 15"W x 24"D, 1" belt/8" disc, bench-top model, with miter gauge, ½ HP single phase motor, 115V, 10A
1		X	Buffer, 8", long shaft with pedestal, 1800 RPM, 3/4HP single phase motor, 115/230V, 14/7A
1		X	Tool grinder, 7", with pedestal and lighted shields, water pot and tool tray, exhaust-type guards, two wheels, 7" x 1" (one, 36 - grit and one, 60-grit), 3600 RPM, ¾ HP single phase motor, 115/230V, 10/5A
2		X	Utility vise, 5" jaw width, 5 1/2" opening, with replaceable serrated steel jaws, built-in steel pipe jaws, swivel base
1		X	Circular saw, 7 1/2," with combination saw blade and wrench, 115V, 13A
1		X	Jigsaw, variable speed, 115V, 4A
1		X	Router, 1HP, with 1/4" and 3/8" collets, collet wrenches, and base assembly, 115V, 8A
1		X	Drill, electric, reversible, variable speed, 1/2" chuck, 115V, 5.5A
1		X	Belt sander, with dust bag, 3" x 24" belt, vacuum dust removal system 115V, 10A
1		X	Sander, orbital pad, 1/3 sheet, double insulated, 115V, 5A
1		X	Sander, orbital finish, 1/4 sheet, double insulated, 115V, 1.25A
3		X	Vacuum cleaner, 28 - gallon, with 6' x 2 1/2" hose, extension wands, and nozzle, 115V, 10A
1	X		Safety glass cabinet, with glasses, sterilized
1		X	Computer Numerical Controlled (CNC) wood router, with Lexan safety shield, key operated switch, built-in dust collection, IBM compatibility, engraving package, CAD/CAM software, 1 ½ HP single phase motor, 115V, 15A
1		X	Computer Numerical Controlled (CNC) milling machine (2), 24"W x 22"D, bench-top model, with Lexan safety shield, air vise robotic interface, milling machinist kit, quick change tooling, CAD/CAM software and documentation, 1HP DC motor, 115V, 15A

No. of Items	Contractor Provided	District Provided (FF&E)	Description
1		X	Plastics technology module, containing: manual injection molding machine, rotational molding machine, vacuum former machine, supplies and instructional videos, each machine 115V, 15A each
1		X	Plastic strip heater, 23"L, bench-top use, 115V, 12A
2		X	Mobile Computer Integrated Manufacturing (CIM) bench, 36" x 72", steel, with controller mounting modules Types 1 and 2, keyboard/monitor mounting module, utilities distribution module, electrical power module, compressed air distribution module, quick release connector, and monitor multiplexer
3		X	Robotic arm, with teach through nose software, including: curriculum and instructional packages, Vision System, linear conveyor, rotary table, linear slide base, experimenter table (2), end effector package, D.C. servo motor kit, gravity feeder (2), pallet (4), infra-red sensor
2		X	Stock cart, steel, 5' diameter casters, 24"W x 36"D x 32"H
1		X	Oily waste can, 6 gallon
1	X		Large group sink, handing washing station (double industrial sink)
2	X		Marker board, 4' x 16', with map rail and flag holder
2	X		Tack Board, 4' x 4'
1	X		80"w x 60"h Video Format Screen with black masking borders
1		X	Pencil sharpener, electric
	X		Fire extinguishers, per code
1	X		Fire blanket, wall-mounted
1	X		First Aid kit, wall mounted
1	X		Provide stainless steel sink, 18"D x 24"W, with hot and cold water
1	X		Clock
1	X		Multimedia cabinet (refer to General Considerations)
1	X		Workstation (refer to General Considerations)
1		X	DVD/VCR Combo
1		X	Document Camera
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)
1	X		Dust collection system

Consult with SDPBC Program Management (Construction Liaison at-large) for additional Furniture, Fixtures and Equipment.

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

Refer to **GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROL**

A. Heating/Cooling/Ventilation - As required to meet District Standards.

- B. **Acoustical** - As required to meet District Standards.
- C. **Floor** - As required to meet District Standards.
- D. **Walls** - As required to meet District Standards.
- E. **Ceiling** - As required to meet District Standards. 12' in all laboratories except the Drafting and Design Technology Laboratory which will be standard height.
- F. **Lighting** - As required to meet District Standards.
- G. **Windows** - As required to meet District Standards. Exterior windows in the laboratory should be above eye-level to avoid outside distractions and allow use of wall space. Windows should be operable for ventilation. Maximum security must be provided at all exterior windows.
- H. **Doors** - As required to meet District Standards. Provide one, 6' double door with removable mullion in each laboratory to facilitate delivery of materials and sharing of equipment. Provide one, 6' double door with removable mullion between the large storage room and the Production Technology Laboratory and the Engineering Technology Laboratory. Provide one, 6' double door with removable mullion between and the project storage room and the Production/Communication Technology Laboratory. Provide overhead exterior door (8'w x 10'h) in the Production/Construction Laboratory.
- I. **Water/Plumbing Fixtures** - As required to meet District Standards.
- J. **Communications** - As required to meet District Standards.
- K. **Electrical** - As required to meet District Standards. Laboratory to have 120-volt, wall-mounted, duplex outlets 6' apart. One, 120-volt, industrial quality, pull-down/retractable, ceiling-mounted extension cord to be installed above each work bench, plus power poles for quad type computer work stations. When in the retracted position, the cords shall not extend lower than 6' above the floor. Material storage to have four, 120- volt duplex outlets. Student project storage to have two, 120-volt duplex outlets. Provide outlets in storage areas for battery charging station.
- L. **Instructional Technology** - As required to meet District Standards.
- M. **Gas and Air** - As required to meet District Standards. Provide compressed air in the Production/Construction and Engineering Technology labs.
- N. **Safety** - As required to meet District Standards. Panic buttons (kill switches) for instant disconnection of all equipment should be installed on two walls in appropriate laboratories. A keyed reset switch to be installed in conjunction with one of the panic buttons in each laboratory. Adequate fire extinguishers of proper size must be provided in each laboratory.

- O. Fencing** - As required to meet District Standards. Provide a fenced area, 40' x 60', 6' high, adjacent to Production/Construction Laboratory.
- P. Service Drives** - As required to meet District Standards. Production/Construction lab should be located on the first floor near a service drive for delivery of large stock.
- Q. Parking** - As required to meet District Standards.
- R. Built-ins**
1. **Drafting and Design Technology Laboratory**
 - a. Provide counter with sink, 25', cabinets below and above, lockable.
 - b. Provide shelving (10), 36"W x 18"D, full height in material storage.
 - c. Provide Multimedia cabinet and workstation - refer to General Considerations.
 2. **Communication Technology Laboratory**
 - a. Provide counter, 60', cabinets below and above, lockable.
 - b. Provide cabinet, 43"W x 18"D x 44"H, flammable liquid safety storage, 30-gallon capacity.
 - c. Provide shelving (6), open, 36"W x 24"D x 75"H in storage room.
 - d. Provide shelving (18), open, 36"W x 18"D x 75"H in storage room.
 - e. Provide Multimedia cabinet and workstation - refer to General Considerations.
 3. **Engineering Technology Laboratory**
 - a. Provide counter with sink, 30', with cabinets below and above, lockable.
 - b. Provide open, full-height shelving (12), 36" x 24" shelves in storage room.
 - c. Provide storage cabinet (6), 36"W x 21"D x 78"H, steel construction, four adjustable shelves, lockable in storage room.
 - d. Provide Multimedia cabinet and workstation - refer to General Considerations.
 4. **Production/Construction Laboratory**
 - a. Provide counter with sink, 30', with cabinets below and above, lockable.

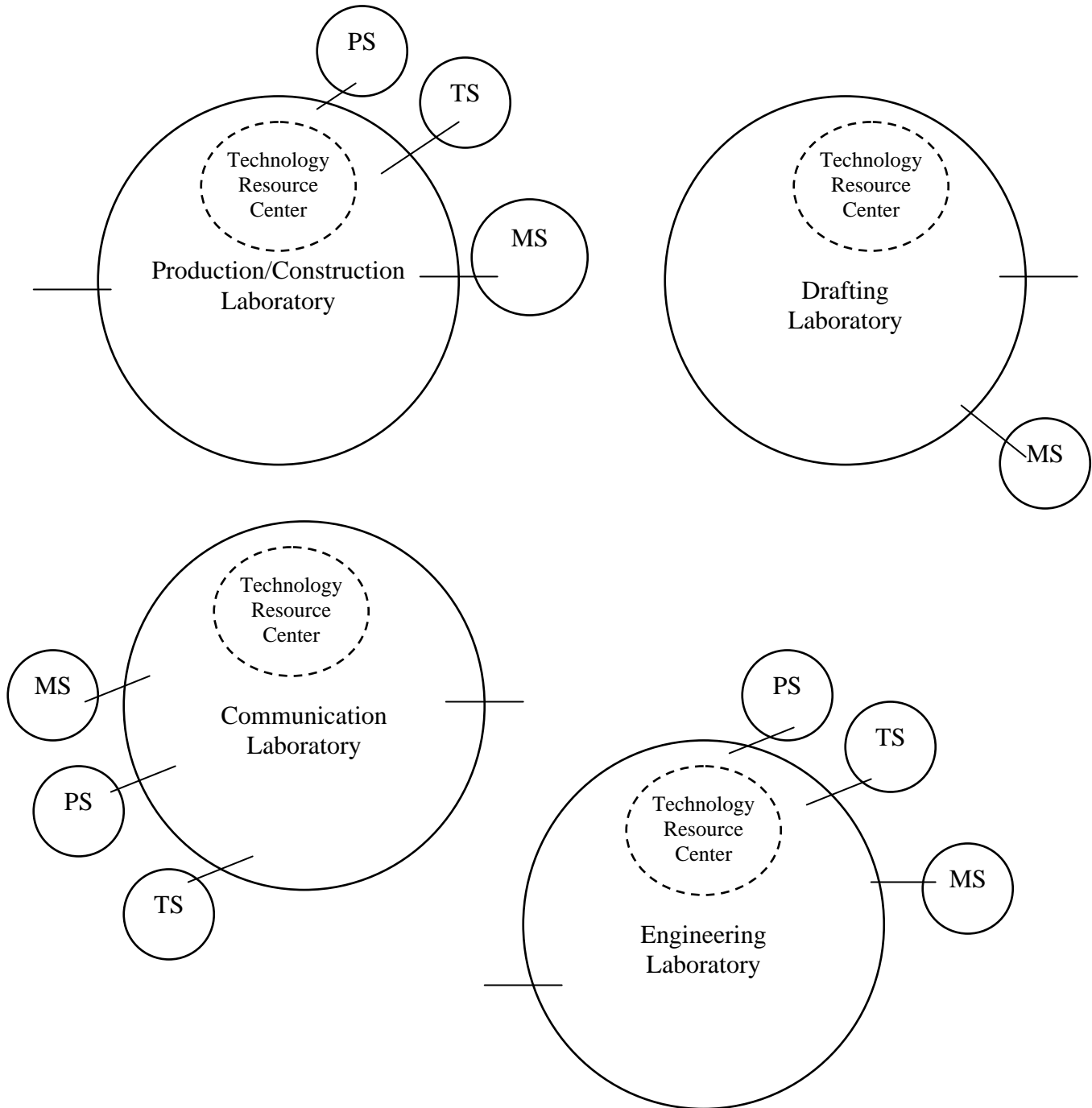
- b. Provide lumber storage rack (2), 48"W x 34"D x 112"H, triangular type to store up to 14' of stock vertically, three shelves in storage room.
- c. Provide storage cabinet (10), 35"W x 21"D x 78"H, steel construction, four adjustable shelves, lockable in storage room.
- d. Provide shelving (6), open, 36"W x 24"D x 75"H in storage room.
- e. Provide shelving (10), open, 36"W x 18"D x 75"H in storage room.
- f. Provide cabinet, 43"W x 18"D x 44"H, flammable liquid safety storage, 30-gallon capacity.
- g. Provide Multimedia cabinet and workstation - refer to General Considerations.

S. Other Considerations

1. Noise control between laboratories and within laboratory areas.
2. Visual availability and supervision should be considered in planning all areas of the laboratories for the purpose of providing the instructor visual contact with students at all times and in all areas.
3. The Production/Construction lab must be located on the first floor and be located with an exterior wall. This lab *shall* require a dust collection system for part of the lab. This *shall* be located immediately outside of the lab.

SPATIAL RELATIONSHIPS

Technology Education



MS = Material Storage
PS = Project Storage
TS = Tool Storage

TOURISM - CAREER EDUCATION

I. MAJOR CONCEPTS/CONTENT

The Career Academy of Tourism and Hospitality is a four-year program of study designed to prepare high school students for entry into college with a major in hospitality as well as direct entry into the hospitality profession. Concepts covered in this program focus on broad, transferable skills and stress the understanding and demonstration of the following elements of the travel, tourism, and hospitality industries: planning, management, finance, technical and production skills, underlying principles of technology, labor issues, community issues, and health, safety, and environmental issues. Emphasis is placed on the development of attitudes, skills and understandings related to the travel, tourism, and hospitality industries. Also, supervised on-the-job training provides opportunities for planned instructional activities and student evaluations in a specified hospitality setting.

II. PROGRAM GOALS

The overall goals of the Career Academy of Tourism and Hospitality are to provide a cooperative environment conducive to developing students as motivated, self-disciplined individuals; deliver a curriculum of academic challenges, skill development and career-related learning; develop caring, responsible, life-long learners; prepare graduates who are flexible and committed to technical competence; install social, leadership and problem-solving skills; and provide a structure to meet the requirements for gainful employment and entrepreneurship.

III. PROGRAM ACTIVITIES

In school laboratory activities are an integral part of this program. Equipment and supplies should be provided to enhance hands-on experiences for the students. Also, those laboratory activities provided through on-the-job training are an integral part of this program. Supervised on-the-job training, governed by a training agreement and an individualized training plan signed by the employer, teacher, student, and parent, is used in the classroom and on the job to enable the student to attain the competencies required for the selected occupation. The training plan shall include instructional objectives and a list of on-the-job-training and in-school experiences.

IV. ORGANIZATIONAL NOMENCLATURE

Teacher - Student Ratio 1:20

Grade Levels for Which Program Is Intended 9 - 12

V. INNOVATIONS, EXPERIMENTAL IDEAS, OTHER PLANNED USES

Career Academies are designed to prepare students with wide variances in abilities for a broad range of occupational clusters. The relevance of the Career Academies combined with the work-based experiences garnered through Academy participation serve as an incentive for some students to complete their education.

VI. JUSTIFICATION FOR VARIANCE FROM S.R.E.F. REQUIREMENTS

N/A

VII. PROGRAM FACILITIES LIST

Design Code	Spaces	Description	SREF Sq. Ft. Total	Proposed		Proposed	
				Sq. Ft. Per Unit	Sq. Ft. Total	Stu. Sta. Unit	Stu. Stat. Total.
<u>Tourism</u>							
222	1	Tourism Laboratory			900	20	20
812	1	Project Storage/Material Storage			250		
840	1	Related Classroom			680		
TOTAL					1,830		20

VIII. PROGRAM FURNITURE AND EQUIPMENT

A. Tourism Laboratory

No. of Items	Contractor Provided	District Provided (FF&E)	Description
20		X	Student tables and chairs
1		X	Side chair for teacher desk, no casters
1		X	Teacher stool
1		X	Podium
4		X	Table, 72" x 30", laminated top, adjustable
30		X	Computer
4		X	Printer
1		X	Scanner
1		X	Computer and printer for teacher
1	X		80" w x 60" h Video Format Screen with black masking borders
1	X		Marker board, 4' x 16', with map rail and flag holder
2	X		Tack Board, 4' x 8'
1		X	Pencil sharpener, electric
1	X		Sink, single, stainless steel (CW)
1	X		Clock
1	X		Multimedia cabinet (refer to General Considerations)
1	X		Workstation (refer to General Considerations)
1		X	Document Camera
1		X	DVD/VCR Combo
1		X	Wireless laptop cart
1	X	X	LCD Projector
1	X	X	Sound Field Enhancement
	X		Built-ins (refer to special considerations)

Consult with SDPBC Program Management (Construction Liaison at-large) for additional Furniture, Fixtures and Equipment.

IX. SPECIAL CONSIDERATIONS - CONTRACTOR PROVIDED

Refer to **GENERAL CONSIDERATIONS, GENERAL SECURITY CONSIDERATIONS AND TRAFFIC CONTROL.**

- A. **Heating/Cooling/Ventilation** - As required to meet District Standards.
- B. **Acoustical** - As required to meet District Standards.
- C. **Floor** - As required to meet District Standards.
- D. **Walls** - As required to meet District Standards.
- E. **Ceiling** - As required to meet District Standards.
- F. **Lighting** - As required to meet District Standards. Provide four drop spotlights with track lighting at the display window of the laboratory.
- G. **Windows** - As required to meet District Standards. Provide an observation window from project storage to laboratory.
- H. **Doors** - As required to meet District Standards.
- I. **Water/Plumbing** - As required to meet District Standards. In laboratory, provide single sink with goose neck faucet (CW).
- J. **Communications** - As required to meet District Standards. Provide phone jacks in the project storage for phone and fax.
- K. **Electrical** - As required to meet District Standards.
- L. **Instructional Technology** - As required to meet District Standards.
- M. **Gas and Air** - As required to meet District Standards.
- N. **Safety** - As required to meet District Standards.
- O. **Fencing** - As required to meet District Standards.
- P. **Service Drives** - As required to meet District Standards.
- Q. **Parking** - As required to meet District Standards.

R. Built-ins**1. Built-in work/storage**

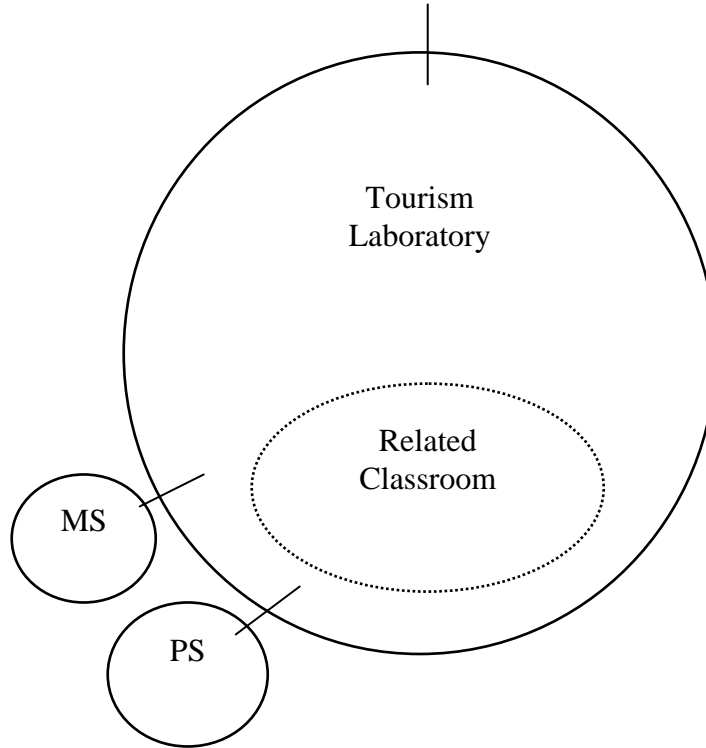
- a. **Laboratories** – Provide lockable upper and lower cabinets with sink and adjustable shelving. Provide built-in bookcase, 5'L x 15"D x 40"H with adjustable shelves. Provide Multimedia cabinet and workstation – refer to General Considerations.
- b. **Project Storage** – Provide cabinet (1), approximately, 7'H x 4'W x 18"D; with doors and adjustable shelving.
- c. **Material Storage** - Provide metal shelving with adjustable shelving on two (2) walls, floor to ceiling. Provide backing in walls to attach metal shelving.

S. Other Considerations

1. Provide data and electrical hook-ups in the project storage.
2. Provide front desk counter for a minimum of two people with transaction top and a section to comply with F.A.C.B.C. standards. Provide working counter, 29"-30" h, along front desk counter with a minimum of two lockable pedestals and center drawer. The space between working counter and transaction counter shall be 12" clear height to hold notebooks. The front desk counter shall have grommets for wire management.

SPATIAL RELATIONSHIPS

Tourism



MS = Material Storage
PS = Project Storage

FACILITY SPACE SUMMARY**Generic High School****New Construction****Grades 9 - 12****Total Student Stations: 2,658****Utilization Factor: 95%****FISH Capacity: 2,525****Program Capacity: 2,500****Core Facilities: 2,500**

Facility Area	Proposed Student Stations	Net Assign Square Feet (NASF)
Administrative/Student Services		13,920
Art	56	3,788
Auditorium		14,895
Computer Education	75	2,835
Custodial		4,605
Driver's Education	25	1,635
Exceptional Student Education	137	16,245
Food Services		17,440
Foreign Language	125	4,275
General Classrooms	600	20,520
Language Arts	225	7,695
Library Media Center		15,935
Mathematics	200	6,840
Music	78	7,336
Physical Education	160	30,624
Resource Rooms		1,198
Restrooms		5,250
Science	325	19,145
Social Studies	200	6,840
Student Storage		1,250
Teacher Planning		4,272
Career Education	452	72,000
Totals	2,658	278,543
Mechanical @ 6%		16,713
Total Net Sq. Ft.		295,256
Circulation, Walls etc. @ 34%		100,387
Total Gross Sq. Ft.		395,642