

MSBA Designer Roundtable

Furniture, Fixtures & Equipment and Technology Allowances

October 11, 2012

Furniture, Fixtures & Equipment

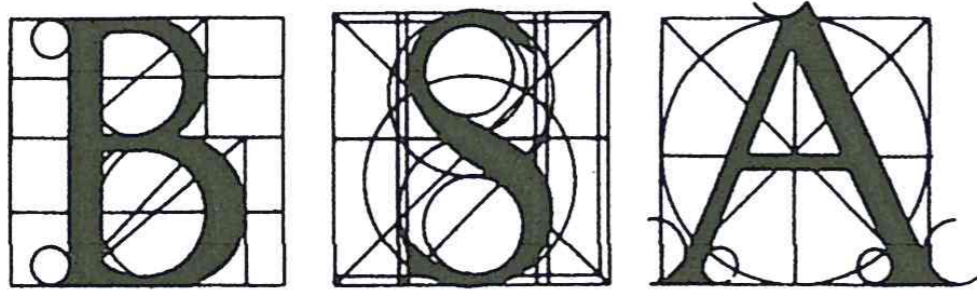
Construction Contract Equipment

- Stage Curtains & Rigging
- Food Service Equipment
- Basketball Backstops
- Gymnasium Divider Curtains
- Fixed Casework & Equipment
- Auditorium Seating
- Telescoping Gym Bleachers
- Specialty Millwork
- Corridor & Shop Lockers
- Chalkboard, Tackboard, Markerboards
- Playground Equipment
- Athletic Field Equipment
- Building Signs & Graphics
- Window Coverings

Furniture & Equipment Contract

- Miscellaneous Classroom Furniture & Equipment
- Office Furniture & Equipment
- Library Furniture & Equipment
- Metal Storage Shelving
- Cafeteria Furniture
- Technical Education/Shop Equipment
- Gymnasium/Fitness Equipment
- Business Machines & Copiers
- Custodial & Grounds Equipment
- Health Suite Equipment
- Miscellaneous Teaching Aids
- Music Department Equipment
- Art Department Equipment
- Home Economics/Life Skills
- Science Department Equipment
- Kitchen Smallwares
- Library Book Security System

Furniture, Fixtures & Equipment



Memorandum

To: Educational Facilities Committee Members

From: John F. Miller, FAIA

Date: February 16, 2001

Re: Current Costs for Furniture & Equipment

	\$/Student F&E ⁽¹⁾	Technology ⁽²⁾	Total	SBA Cost Factors ⁽³⁾
High School	\$1500 - \$1700	\$1600	\$3100 - \$3300	\$2325
Middle Schools	\$1300 - \$1500	\$2000 - \$2100	\$3300 - \$3600	\$2025
Elementary Schools	\$1100 - \$1300	\$600 - \$700	\$1700 - \$1900	\$1725

Rethinking the Budget

FF&E - Budget utilizing costs per room type

High Schools

	small	medium	large
Students	800	1200	1600
Gross Square ft	164,800 GSF	218,400 GSF	259,200 GSF
Current Standard	\$960,000	\$1,440,000	\$1,920,000
\$/student	\$1,200	\$1,200	\$1,200
Total Budgets	\$1,492,200	\$2,016,300	\$2,500,400
\$/Student	\$1,865	\$1,680	\$1,563
\$/GSF	\$9.05	\$9.23	\$9.65

Utilizing costs per Room rather than costs per Student

Furniture Design for Blended Learning

- Flexibility/Reconfiguration
- Adaptable for Modes of Teaching & Learning
- Bridging the Analog World with the Digital Future
- Media Center Cafe
- Creating Comfortable Spaces that Reflect the Outside World
- Project Room, Breakout Rooms/Fit Out

Technology Equipment

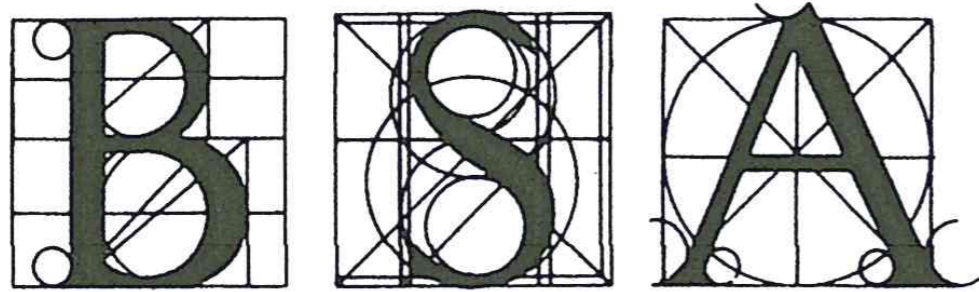
Construction Contract Technology Infrastructure

- Telephone Cabling (Station & Backbone)
- Data Network Cabling (Station & Fiber Backbone)
- Wireless System Cabling
- Public Address System & Cabling
- Master Clock & Secondary Clocks
- Audio Systems & Cabling for Gym & Cafeteria
- Auditorium AV Systems
- Video Distribution System (CATV or Video IP)
- Security Systems (CCTV, Access Control & Intrusion)
- Pathways for All Technology Systems

Technology Equipment Contract

- Workstation Computers
- Teacher Laptop Computers
- Servers, Storage, Firewall, etc.
- Network Switch Electronics
- Tablets
- Printers
- Classroom Projectors
- Classroom Audio
- Document Cameras
- Telephone System
- Voice Mail System
- Wireless Equipment Access Points/Controllers
- Laptop Carts
- Tablet Power/Sync Carts
- Charging Stations
- Digital Signage & Bulletin Boards

Technology Allowances



Memorandum

To: Educational Facilities Committee Members

From: John F. Miller, FAIA

Date: February 16, 2001

Re: Current Costs for Furniture & Equipment

	\$/Student F&E ⁽¹⁾	Technology ⁽²⁾	Total	SBA Cost Factors ⁽³⁾
High School	\$1500 - \$1700	\$1600	\$3100 - \$3300	\$2325
Middle Schools	\$1300 - \$1500	\$2000 - \$2100	\$3300 - \$3600	\$2025
Elementary Schools	\$1100 - \$1300	\$600 - \$700	\$1700 - \$1900	\$1725

Technology Budgets Today

Tech Equipment - Typical Budgets

High Schools

	small	medium	large			
Students	800	1200	1600			
Gross Square ft	164,800 GSF	218,400 GSF	259,200 GSF			
Current standard	\$960,000	\$1,440,000	\$1,920,000			
\$/Student	\$1,200	\$1,200	\$1,200			
Typical Budgets	\$ Low	\$ High	\$ Low	\$ High	\$ Low	\$ High
\$/Student	\$1,144,000	\$1,416,000	\$1,716,000	\$2,124,000	\$2,288,000	\$2,832,000
	\$1,430	\$1,770	\$1,430	\$1,770	\$1,430	\$1,770

Average cost per student = \$1600

Preparing for a Connected Generation

1. One-to-One Computing
2. Bring Your Own Device
3. Improved Wireless/Internet
4. Increases in Digital Content
5. Virtual Learning
6. Cloud Computing

Open Discussion