



Alameda Science and
Technology Institute
555 Atlantic Avenue

School Data

Date School Opened:	2004
2013 - 2014 School Year Enrollment:	170
Standard Classrooms:	0
Modular Classrooms:	0
Portable Classrooms:	6
Classrooms Used for Other Programs:	0
Building Area:	5,760 sq. ft.
Site Area:	n/a

Alameda Science and Technology Institute - Background Information

Alameda Science and Technology Institute (ASTI) is a public magnet high school, founded in 2004 through a grant from the Bill and Melinda Gates Foundation. ASTI exists as a partnership between Alameda Unified School District and the Peralta Community College District (PCCD), located on the College of Alameda campus. As an Early College High School, ASTI provides students the opportunity to enroll as full-time community college students during their 11th and 12th grades. This allows students to complete significant college credits while simultaneously completing a high school degree. These units are transferable to the University of California and California State Universities and may be transferable to other institutions.

ASTI is currently housed in seven portable classroom buildings (six used as classrooms and one for administration), with a stand-alone toilet room building, located on the College of Alameda campus through a long-term lease. ASTI serves 170 students in grades 9 through 12.



Alameda Science and Technology Institute - Existing Conditions Summary (from 2012 Assessment)

Facilities Assessment Needs

- Accessibility to some key areas is lacking.
- Portable buildings are congested with ramp system.
- Phone and public address systems are inadequate.

Educational Program Needs

- Replace aging portable classroom space with permanent buildings (general, computer lab, and science instruction) in the same approximate location.
- Move College of Alameda career center out of ASTI cluster to provide space for new buildings.
- Add a common room, adjacent to administration offices.
- Provide administrative offices with ability for privacy.
- Update technology infrastructure.

Unique Opportunities

- ASTI is located on the College of Alameda campus, with its facilities available for the high school use.








Alameda Science and Technology Institute - Master Plan Summary

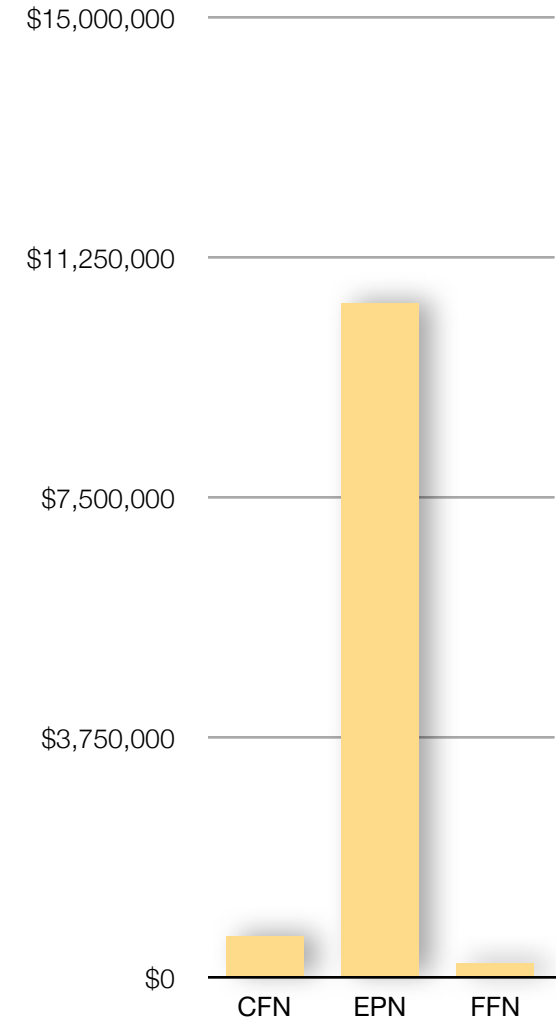
Master Plan Features

- New modular single story and two-story classroom buildings with elevator
- Administration and commons spaces
- Distinct entry for ASTI
- New fencing along driveway to north
- Nine classrooms: seven general, one science, one media lab
- Central courtyard with outdoor seating
- New toilet room building with student, staff and custodial spaces

Proposed Improvements

	DISTRICT COMMON TRENDS	COMMON PROPOSED RESPONSE
	Safety and Security	Reposition administration with visual connection to entrance and upgrade site lighting.
	Accessibility	Provide new accessible walkways and central courtyard, improve restroom accessibility, provide elevator at new two-story building and provide way-finding signage.
	Technology	Improved data, power and wireless coverage, updated audio visual and presentation capabilities and modernized media lab.
	Science, Technology, Engineering, Art, Mathematics	New science lab, new media center and flexible project space
	Facilities Infrastructure	Develop a central courtyard flanked by new classroom, collaboration, administrative and lab spaces with toilet rooms, custodial and storage functions.

Improvements by Category



Critical Facility Needs (CFN)	\$644,280
Educational Program Needs (EPN)	\$10,531,820
Future Facility Needs (FFN)	\$213,832

Alameda Science and Technology Institute - Committee Facilities Improvement

Attendees at the school site meetings provided their recommendation on the priority of improvements within the three categories for use in future decision making. These recommendations will be considered along with other factors when scheduling projects as funding becomes available.

Critical Facility Needs (CFN)

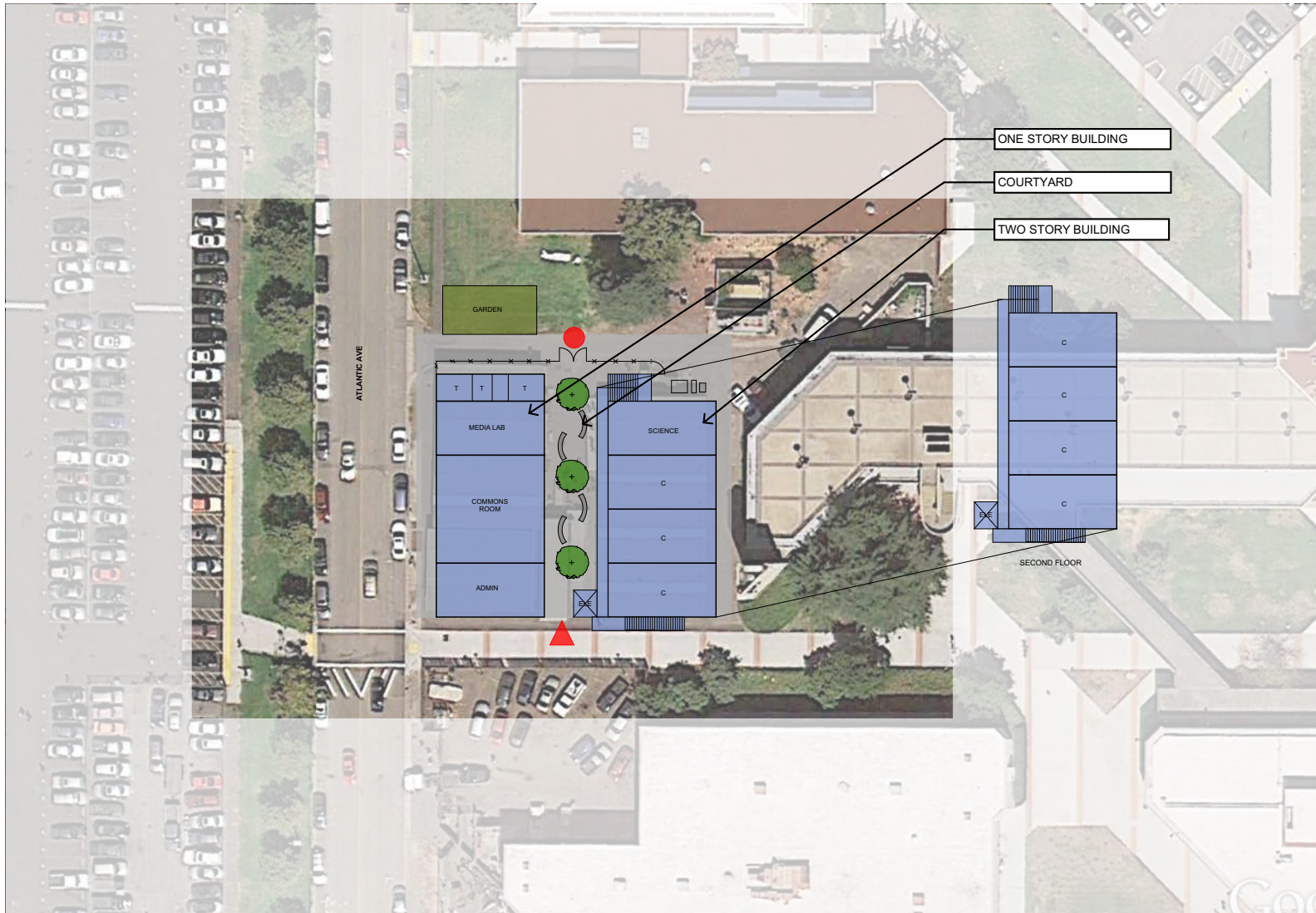
- Accessibility deficiencies throughout campus need to be brought up to current codes, including exterior path of travel, interior walkways, toilet rooms, drinking fountains, and way-finding signage.
- Phone and public address systems are inadequate.

Educational Program Needs (EPN)

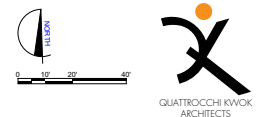
- Replace aging portable classroom space with permanent buildings (general and science instruction) in the same approximate location.
- Move College of Alameda career center out of ASTI cluster to provide space for new buildings.
- Add a common room, adjacent to administrative offices.
- Provide administrative offices with capacity for privacy.
- Update technology infrastructure.

Future Facility Needs (FFN)

- Provide ASTI entry identity.
- Create exterior courtyard gathering/learning space.



- KEY**
- NEW STRUCTURE
 - REPURPOSED/ RECONFIGURED
 - MODERNIZED
 - NEW / RECONFIGURED SITE WORK
 - NEW SHADE STRUCTURE
 - NEW LANDSCAPED AREA
 - POSSIBLE FUTURE GROWTH
 - NEW FENCE
 - DEMOLITION
 - MAIN ENTRY POINT
 - OUTER PERIMETER ENTRY POINT
 - INNER PERIMETER ENTRY POINT
 - C CLASSROOM
 - T TOILET



ALAMEDA SCIENCE AND TECHNOLOGY INSTITUTE SITE PLAN

Alameda Science and Technology Institute - Facilities Needs Spreadsheet

CATEGORY	SOURCE	DESCRIPTION (Deficiency/Remedy)	ESTIMATED TAKE OFF		COST/ UNIT	30% Soft Cost Allowance	TOTAL COST
			Qty.	Unit			
SITE ISSUES							
CFN	FMP	Site requires accessible path of travel upgrades. From street parking, throughout ASTI portion of the campus, provide accessible paved paths of travel.	2800	SF	25.0	\$21,000	\$91,000
FFN	FMP	Site lacks a formal or permanent outdoor student space. Create an exterior courtyard gathering/learning space, including landscaping and seat walls.	2267	SF	58.0	\$39,446	\$170,932
FFN	FMP	Site lacks a distinct entry and clear identification. Provide ASTI entry with signage.	1	LS	33,000.0	\$9,900	\$42,900
Subtotal							\$304,832
BUILDING SCOPE TYPICAL CAMPUS WIDE							
CFN	FMP	Site requires technology infrastructure for data, Wi-Fi, power distribution, etc. Provide new and adequate technology infrastructure for each building including power, data and wireless distribution, clock, bell, phone, public address, and audio-visual systems.	21280	SF	20.0	\$127,680	\$553,280
EPN	FMP	Entire campus is housed in aging portable classroom buildings. Replace aging buildings with one one-story permanent building, to include new general and science classrooms. Provide storage rooms, toilet rooms, media lab, commons, and administration spaces.	5160	SF	400.0	\$619,200	\$2,683,200
EPN	FMP	Entire campus is housed in aging portable buildings. Replace aging buildings with one two-story permanent buildings with new classrooms, storage, circulation, elevator, and stairs to upper level.	16120	SF	370.0	\$1,789,320	\$7,753,720
Subtotal							\$10,990,200

Alameda Science and Technology Institute - Facilities Needs Spreadsheet

CATEGORY	SOURCE	DESCRIPTION (Deficiency/Remedy)	ESTIMATED TAKE OFF		COST/ UNIT	30% Soft Cost Allowance	TOTAL COST
			Qty.	Unit			
CLASSROOMS							
EPN	FMP	College of Alameda (COA) career center is currently housed within the ASTI portable cluster. Move COA career center out of ASTI cluster to provide space for new buildings.	1	LS	13,000.0	\$3,900	\$16,900
Subtotal							\$16,900
RESTROOMS							
EPN	FMP	Permanent toilet rooms are lacking and nonaccessible. No custodial space is provided. Provide new toilet rooms within new buildings for students and staff; provide dedicated custodial room with supply storage.	800	SF	75.0	\$18,000	\$78,000
Subtotal							\$78,000
MULTI-PURPOSE BUILDING							
EPN	FMP	No common/gathering space. See above for new building to include space for common room.				\$0	\$0
Subtotal							\$0
LIBRARY/MEDIA CENTER							
EPN	FMP	Currently housed in aging portable. See above for new building to include space for media center.				\$0	\$0
Subtotal							\$0
TOTAL COSTS							\$11,389,932