

# Bay Farm Elementary School

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## SUMMARY OF SCHOOL CAMPUS

- **Address:** 200 Aughinbaugh Way, Alameda, CA 94502
- **Principal - Phone No. :** Babs Freitas - (510) 748-4010
- **Year Built:** 1991
- **Total Site Size:** 8.0 acres
- **Building Area:** 30,800 sf
- **10 Portables:** 9,600 sf

## FACILITY DESCRIPTION

Bay Farm Elementary School is constructed on concrete pad foundations with 1-story wood frame, cement plastered, walls, and composite shingle roofing. This campus includes a Multi-Use/ Cafeteria, Administration building, Media Center/ Library, (3) Classroom Clusters with (16) classrooms, and (10) portable classrooms.

Bay Farm currently serves 466 (K-5) students in one of the District's newer facilities, which was constructed in 1991 as part of the Bay Farm Development. The campus was modernized in 2004 using Measure "C" funds, but only included exterior painting, and repaving of the parking lot and access road. Since 2004, there have been a total of 10 Portable classrooms placed at this facility.

## ISSUE OF CONCERN

Bay Farm school occupies a site that was created from bay-fill sediments in a former marsh area. The structural stability of these soils is of a questionable nature and requires extensive further geotechnical study before any reasonable analysis can be performed. Visual evidence, however, makes it very clear that while the building pads appear to be stable, the earthen grades under the covered walkways concrete slabs, asphalt playgrounds, and landscaped areas has subsided up to 3" since 1991. This issue is the greatest single concern for addressing this facilities long-term durability and maintenance.

## KEY ASSESSMENT ITEMS

- Bay fill ground subsidence except at building pads.

- Non accessibility at most building entrances
- Severe dry rot at a some portable buildings
- ADA parking signage
- Playground asphalt surface deterioration.
- Exterior doors, windows and paint near end of service life

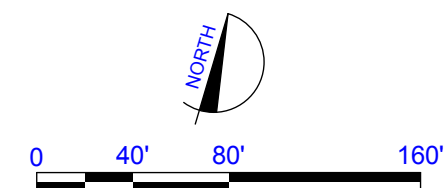




- CLASSROOM BUILDING
- ADMINISTRATION
- MULTI-PURPOSE / CAFETERIA BUILDING
- MODULAR BUILDING
- PORTABLE BUILDING
- COVERED WALKWAYS
- #C SEE ASSESSMENT SPREADSHEET FOR CIVIL KEYNOTES, TYP.

BAY FARM ES  
4/30/2012

## Alameda USD Facilities Assessment





# Bay Farm Elementary School

## Facility Assessment Spreadsheet

CATEGORY	DESCRIPTION	PHOTO & SITE PLAN	ESTIMATED TAKE OFF		COST / UNIT	TOTAL COST
			Quantity	Unit		

1) Civil						\$613,595
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### A) Existing Site Conditions

i) ACCESS						
1 Existing Deficiency	Stall not 18 ft deep, lacks proper path from unloading zone to sidewalk, lacking \$250 fine sign, and has 4% longitudinal slope.	1C				
Recommended Remedy	Convert to standard parking stall. Remove blue markings; remove sign. Add additional stall at location 2		1	Stall	\$2,500	\$2,500
2 Existing Deficiency	3.4% longitudinal slope; no designated van space; signage out of date; improper POT from ADA stall to sidewalk. Total of three stalls, including one van needed.	2C				
Recommended Remedy	Redesignate three stalls for ADA parking, including one van. Edge grind at perimeter of this area, and install variable depth overlay of stalls and unloading zones at 2% max slope. Extend overlay into aisle at 5% max slope to conform. Restripe stalls for ADA use; install current signage at all stalls. Remove curb at head end of stalls, and install sidewalk to connect unloading zones to existing sidewalk leading to school entrance. Provide truncated domes at head end of both unloading zones.		600	SF	\$3	\$1,800
3 Existing Deficiency	No truncated domes at bottom of ADA ramp to parking lot.	3C				
Recommended Remedy	Add truncated dome mat to bottom 3 ft of ramp.		18	SF	\$20	\$360
4 Existing Deficiency	Pedestrian ramps on both sides of drop off loop have slopes exceeding 1:12, and no bands of truncated domes.	4C				
Recommended Remedy	Demo and rebuild ramps and adjoining length of other flatwork to reduce ramp slope to 1:12 max, with 2% max level landing at top of ramp. Install 3 ft band of truncated domes at bottom of each ramp.		128	SF	\$20	\$2,560

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				Quantity	Unit		
5	Existing Deficiency	ADA unloading zone at front of school has no curb ramp, and is signed to resemble accessible parking stalls.	5C				
	Recommended Remedy	Paint out ADA stall symbols; remove incorrect signage. Install proper signage for ADA student unloading zone. Remove 32 lf of curb, gutter and sidewalk and replace with 20 ft of depressed curb/walk, with 6 ft 1:12 ramps on both ends, and 3 ft band of truncated domes at bottom of both ramps. Paint vertical curb at back of depressed walk area yellow. See also next item.		256	SF	\$25	\$6,400
6	Existing Deficiency	Sidewalk along multipurpose building, along drop off loop, has a 5 ft wide area adjoining the curb that is at 2% cross slope, but obstructed with tree wells. The adjoining 5 ft width of walk, extending up to the building, has slopes substantially in excess of 2% due to settlement of the site. This condition results in a non-compliant POT along this side of the school.	6C				
	Recommended Remedy	Remove trees and tree wells adjoining curb, and fill in with concrete to create accessible path along curb.		8	EA	\$450	\$3,600
7	Existing Deficiency	The main covered walkway leading from the drop off loop into the campus adjoining the multipurpose building has settled resulting in a 16% slope on the portion of the walkway leading from the covered walk to the main doors of the building, with no ADA level landing outside the doors.	7C				
	Recommended Remedy	One possible solution could be to remove the existing concrete walk under the covered walkway, add 8" of lightweight aggregate to raise the grade and construct new concrete walkway to building floor level. This will require that the drop off loop end of the walkway be reconstructed as a ramp, with handrails, to gain the additional elevation. It must also be determined if there is sufficient vertical clearance to the structural members of the covered walkway to accomodate the 8" rise in walkway surface grades.	Allow	1,808	SF	\$35	\$63,280
8	Existing Deficiency	Ground Subsidence affects throughout Site					
	Recommended Remedy	* Geotechnical Report with extensive soil boring and testing by a Consultant well versed in Bay Fill projects, is a required prerequisite to any work to remedy the subsidence issue.	Allow	1	LS	\$75,000	\$75,000

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CATEGORY	DESCRIPTION	PHOTO & SITE PLAN	ESTIMATED TAKE OFF		COST / UNIT	TOTAL COST
			Quantity	Unit		
9	<b>Existing Deficiency</b>	8C				
	<b>Recommended Remedy</b>		700	SF	\$12	\$8,400
10	<b>Existing Deficiency</b>	9C				
	<b>Recommended Remedy</b>		2,200	SF	\$17	\$37,400
11	<b>Existing Deficiency</b>	10C				
	<b>Recommended Remedy</b>		1,956	SF	\$25	\$48,900
12	<b>Existing Deficiency</b>	11C				
	<b>Recommended Remedy</b>		720	SF	\$25	\$18,000
13	<b>Existing Deficiency</b>	12C				
	<b>Recommended Remedy</b>		5,100	SF	\$17	\$86,700

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CATEGORY		DESCRIPTION	PHOTO & SITE PLAN	ESTIMATED TAKE OFF		COST / UNIT	TOTAL COST
				Quantity	Unit		
14	Existing Deficiency	No ADA ramp into (2) play equipment yards with "chip" cushion	13C				
	Recommended Remedy	Add ADA ramps and rubberized cushion on new asphalt base		4,000	SF	\$10	\$40,000
15	Existing Deficiency	2" drop from finished floor to finished grade at threshold.	14C				
	Recommended Remedy	Remove sufficient quantity of pavers to allow for installation of level concrete landing at doors, and 5% max slope on walk down to adjoining pavement.		1,020	SF	\$17	\$17,340
16	Existing Deficiency	Vertically offset joint where exterior flatwork joins building slab	15C				
	Recommended Remedy	Grind offset joint to be flush.		30	SF	\$4	\$120
17	Existing Deficiency	Play Court pavement deteriorated.	16C				
	Recommended Remedy	Crack seal cracks 1/4 inch and larger, seal coat, restripe.		20,580	SF	\$0.75	\$15,435
18	Existing Deficiency	Pavement deteriorated	17C				
	Recommended Remedy	Crack seal, paving fabric, and 1.5" minimum overlay		18,000	SF	\$5	\$90,000
19	Existing Deficiency	Settlement of pavers between floor slab and covered walkway concrete along front of mods.	18C				
	Recommended Remedy	Remove pavers at entrance to Pods. Replace with concrete walks at 1:12 max and railings		2,900	SF	\$17	\$49,300
ii) FIRE/LIFE SAFETY/HAZ MAT							
1	Existing Deficiency	Sparse onsite fire hydrant coverage, particularly at north end of site.	19C				
	Recommended Remedy	Consider adding fire hydrant either along Aughinbaugh Way at north end of site, or onsite hydrant in north paved playcourt.		1	EA	\$10,000	\$10,000
2	Existing Deficiency	No evidence of backflow device for private onsite hydrants.					
	Recommended Remedy	Add single check valve in vault per Water Co. Standards		1	LS	\$15,000	\$15,000
iii) UTILITIES							
1	Existing Deficiency	All drop inlet grates in pedestrian areas have larger openings than allowed by ADA					
	Recommended Remedy	Replace non-compliant grates with 1/2" max opening bolt down grates. Estimated 10 ea.		7	EA	\$500	\$3,500

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				Quantity	Unit		
2	Existing Deficiency	No evidence of separate irrigation service for site.					
	Recommended Remedy	Recommend installation of separate irrigation service and backflow device.		1	Srv	\$18,000	\$18,000
<b>2) Architectural</b>							<b>\$1,005,080</b>
<b>A) Exterior</b>							
<b>i) ACCESS</b>							
1	Existing Deficiency	<b>Main Entry:</b> pavement heave projection near Admin.	#1				
	Recommended Remedy	* Further investigation required (see Civil Item #8). Allowance for replace concrete.	Allow	1	LS	\$1,800	\$1,800
2	Existing Deficiency	<b>Site Pavers:</b> Numerous trip hazards	#2, #3, #7, #8				
	Recommended Remedy	Replace pavers with conc. walkway		3,600	SF	\$16	\$57,600
3	Existing Deficiency	<b>Media Center:</b> Occupant load for main room requires 2nd Exit	#26				
	Recommended Remedy	Add 36" Exit door at east wall, with conc. walkway		1	Exit	\$5,000	\$5,000
4	Existing Deficiency	No secured Bike Storage					
	Recommended Remedy	Add 20'x40' secured chainlink Bike Enclosure		1,200	SF	\$8	\$9,600
<b>ii) DEFERRED MAINTENANCE</b>							
1	Existing Deficiency	<b>Admin. Bldg:</b> Wallboard cracking from settlement	#9				
	Recommended Remedy	Remove drywall/ replace & repaint		200	SF	\$7	\$1,400
2	Existing Deficiency	<b>Media Center:</b> red paint degraded	#4				
	Recommended Remedy	Reseal /repaint entire campus		40,000	SF	\$3	\$120,000
3	Existing Deficiency	<b>Classroom Windows:</b> south facing leaks through frames at wall					
	Recommended Remedy	Replace all windows with Alum. frame & dual pane glass		3,200	SF	\$30	\$96,000
4	Existing Deficiency	<b>Comp. Shingle roofing:</b> nearing end of service life					
	Recommended Remedy	Replace all shingle roofs with S.S. metal roofing. Also new fascia, gutter, and RWL.		9,600	SF	\$12	\$115,200
5	Existing Deficiency	Exterior doors have reached end of service life					
	Recommended Remedy	Replace all ext. doors with metal frame and FRP door		48	EA	\$4,400	\$211,200



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CATEGORY		DESCRIPTION	PHOTO & SITE PLAN	ESTIMATED TAKE OFF		COST / UNIT	TOTAL COST
				Quantity	Unit		
6	Existing Deficiency	(4) Portable classrooms: paint peeling off at metal panels; faded at paneling	#5, #10				
	Recommended Remedy	Repair roof leaks, replace with cement board panel/ trim, prep and repaint		4,000	SF	\$12	\$48,000
7	Existing Deficiency	(4) Portable classrooms: downspouts discharge on wood foundation; dry rot	#17, #18				
	Recommended Remedy	Replace with concrete foundation and ramps; Add site drainage, and new RWLs		32	CY	\$650	\$20,800
8	Existing Deficiency	(1) Portable classroom: missing handrail at ramp wall; gutter downspout drops on wood foundation w/ dry rot	#11, #19				
	Recommended Remedy	Replace with concrete foundation and ramps; Add site drainage, and new RWLs		8	CY	\$650	\$5,200
9	Existing Deficiency	(2) westside Portable classrooms: wood foundation deteriorated	#6, #12, #13				
	Recommended Remedy	Replace with concrete foundation and ramps; Add site drainage, and new RWLs	CONC	16	CY	\$650	\$10,400
10	Existing Deficiency	(2) westside Portable classrooms: wood siding deteriorated	#14, #15				
	Recommended Remedy	Replace siding with cement board panel/trim		1,000	SF	\$6	\$6,000
11	Existing Deficiency	(2) Butterfly Garden Portables: wood foundation has dry rot					
	Recommended Remedy	Replace with concrete foundation and ramps; Add site drainage, and new RWLs		32	CY	\$650	\$20,800
12	Existing Deficiency	No Trash Enclosure at this Site					
	Recommended Remedy	Install a 2-Bin Trash Enclosure per Health Dept. standards		1	LS	\$15,000	\$15,000
13	Existing Deficiency	(2) Butterfly Garden Portables: wood siding & trim has deteriorated	#16, #21, #22, #23, #24				
	Recommended Remedy	Replace siding with cement board panel/trim		2,480	SF	\$6	\$14,880
B) Interior							
i) GENERAL & MAINTENANCE							
1	Existing Deficiency	Campus flooring has reached end of service life					
	Recommended Remedy	Replace all flooring with resilient flooring, and walk-off Entry carpet mat.		40,000	SF	\$5	\$200,000

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2	Existing Deficiency	Interior painting and wall covering at end of service life					
	Recommended Remedy	Repaint all interiors		40,000	SF	\$1	\$40,000
3	Existing Deficiency	Staff Lounge: Kitchen sink is non-accessible	#25				
	Recommended Remedy	Replace cabinets & sink		1	LS	\$6,200	\$6,200
3) Mechanical / Plumbing							\$202,400
A) Exterior							
i) SITE SYSTEMS							
1	Existing System	campus energy management system does not exist					
	Recommended Remedy	add campus wide ddc control and create district standard for energy control systems		40,000	SF	\$2	\$80,000
2	Existing Restrooms	newer, with ada fixtures, floor mounted toilets, with flush valves, typical throughout					
	Recommended Remedy	replace waterless urinals and 10% of other fixtures on an as needed basis. New urinals will be 0.125 gpf, ultra low flow.		10	EA	\$600	\$6,000
3	Existing Restrooms	exterior df's - non ada compliant					
	Recommended Remedy	replace		4	Pair	\$3,500	\$14,000
B) Interior							
ii) EXISTING SYSTEMS							
1	Existing Systems	I.T. data closets have no exhaust, or cooling					
	Recommended Remedy	add cooling as needed		8	EA	\$800	\$6,400
2	Existing Deficiency	original heating furnaces, standard efficiency throughout					
	Recommended Remedy	replace, with high efficiency condensing furnaces with DX coils and condensing units and clean ductwork throughout		40,000	SF	\$2.00	\$80,000
3	Existing Deficiency	exterior drain lines, Gas & Water lines along building perimeters are failing due to soil settlement					
	Recommended Remedy	need flexible type connections		8	EA	\$2,000	\$16,000
4) Electrical							\$234,375
A) General							
i) EXISTING SYSTEMS							
	Existing Systems	School electrical systems appear to be original equipment installed at time of construction in 1991. Modernization project in 2004 did not include any electrical systems. No cable TV service.					

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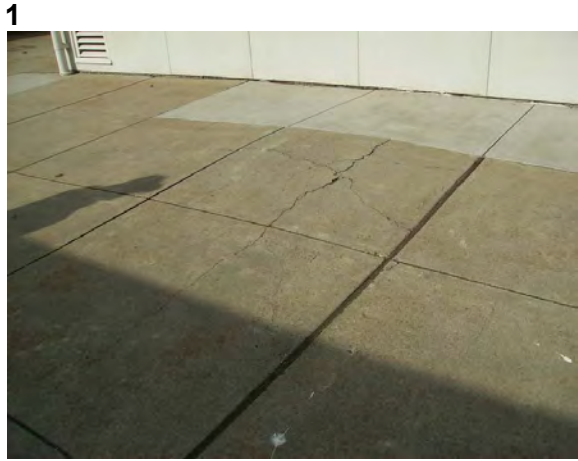
CATEGORY		DESCRIPTION	PHOTO & SITE PLAN	ESTIMATED TAKE OFF		COST / UNIT	TOTAL COST
				Quantity	Unit		
B) <u>Mandatory</u>							
i)	<b>EXTERIOR LIGHTING</b>						
1	Existing Deficiency	Exterior building lighting provided by wallpaks and surface rectangular dropped lens fixtures at covered walkways. No exterior emergency lighting provided for emergency egress. As noted by staff, light levels are low for back to school nights.					
	Recommended Remedy	Replace exterior wallpack fixtures and down lights at covered walkways.		35	EA	\$525	\$18,375
		Add exterior battery pack fixtures for minimum code coverage.		30	EA	\$375	\$11,250
ii)	<b>INTERIOR LIGHTING</b>						
1	Existing Deficiency	Existing suspended fluorescent fixtures in typical classroom and office appear to be original equipment. Suspended fixtures do not have seismic supports to prevent sideways shifting					
	Recommended Remedy	Add horizontal bracing and diagonal restraint wires per code		40,000	SF	\$1.55	\$62,000
C) <u>Deferred Maintenance</u>							
i)	<b>FIRE ALARM /DETECTION</b>						
1	Existing Systems	Fire Alarm system panels (Gamewell), devices, strobes, detectors appear to be original equipment.					
	Existing Deficiency	In Multi-Purpose Room, plastic surface raceway and cable is hanging loose from wall.					
	Recommended Remedy	Replace broken raceways		50	LF	\$15	\$750
ii)	<b>TELEPHONE SYSTEM</b>						
1	Existing Systems	Rauland telephone system, rack mounted					
	Existing Deficiency	Panel problems require frequent reprogramming; Subsidence at U.G. data/phone/speaker systems has compromised conduit and wiring	Allow				
	Recommended Remedy	Replace Rauland system with District standard VOIP.		1	EA	\$75,000	\$75,000
		Replace existing underground data conduit with new conduit and fiber optic cable. Replace existing underground phone & speaker conduit with new conduit and fiber optic cable.		800	LF	\$65	\$52,000
	2	Existing Deficiency	In Media Center, rack intrudes into code required clearance (3' min) for adjacent panel				
	Recommended Remedy	Relocate rack to provide required clearance		1	LS	\$15,000	\$15,000

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iii) <b>BELL/CLOCK/SPEAKER SYSTEM</b>							
1	Existing Systems	Rauland bell/clock/speaker system is rack mounted with telephone system					
	Existing Deficiency	Panel problems require frequent reprogramming.					
	Recommended Remedy	Replace Rauland system with District standard VOIP.		1	EA	\$45,000	\$45,000
iv) <b>SECURITY SYSTEM</b>							
1	Existing Systems	Security system is provided by door contacts and motion sensors.					
	Existing Deficiency	No deficiencies observed or reported.					
v) <b>INTERIOR LIGHTING</b>							
1	Existing Systems	Existing suspended fluorescent fixtures in typical classroom and office appear to be original equipment.					
	Existing Deficiency	Some occupancy sensors observed, local room switches are typical classroom and office lighting controls					
	Recommended Remedy	Replace toggle switches with ultrasonic/infrared room occupancy sensors		40,000	SF	\$0.35	\$14,000
vi) <b>POWER</b>							
1	Existing Deficiency	400A main Breaker constantly trips					
	Recommended Remedy	Conduct Megger testing to check for grounding potential, and Replace breaker if OK		1	LS	\$8,000	\$8,000
<b>Structural</b>							<b>\$20,000</b>
1	Existing Deficiency	significant site settlement of 3" at Covered walkway locations					
	Recommended Remedy	* Structural design required based on Geotech analysis (design fee)	Allow	1	LS		\$20,000
<b>Sub-Total</b>							<b>\$2,075,450</b>
* NEEDS FURTHER INQUIRY FOR ACCURATE ESTIMATE							
<b>SOFT COSTS @ 25%</b>							<b>\$518,863</b>
<b>TOTAL COSTS (not including escalation)</b>							<b>\$2,594,313</b>





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