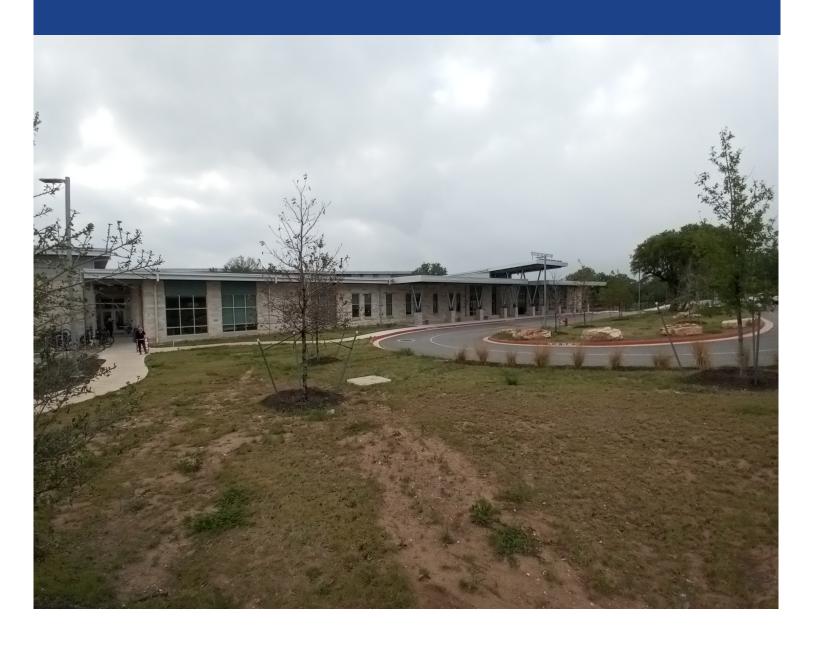


FACILITY CONDITION ASSESSMENT

Bear Creek ES | February 2022





Executive Summary

Bear Creek ES is located at 12801 Escarpment Blvd in Austin, Texas. The oldest building is 0 years old (at time of 2020 assessment). It comprises 93,300 gross square feet.

The findings contained within this report are the result of an assessment of building systems and the conditions found on the site at the time of the visit. The assessment was performed by building professionals experienced in disciplines including architecture, mechanical, plumbing and electrical. The total current deficiencies for this site, in 2020 construction cost dollars, are estimated at \$3,641. A ten-year need was developed to provide an understanding of the current need as well as the projected needs in the near future. For Bear Creek ES the ten-year need is \$1,586,161.

For master planning purposes, the total current deficiencies and the first five years of projected life cycle needs were combined to calculate a Facility Condition Assessment (FCA) score. A 5-year FCA was calculated by dividing the 5-year need by the total replacement cost. Costs associated with new construction are not included in the FCA calculation. The Bear Creek ES facility has a 5-year FCA score of 99.99%.

Summary of Findings

The table below summarizes the condition findings at Bear Creek ES

Table 1: Facility Condition by Building

Number	Building Name	Current Deficiencies	5-Year Life Cycle Cost	Yrs 6-10 Life Cycle Cost	Total 5 Yr Need (Yr 1-5 + Current Defs)	Total 10 Yr Need (Yr 1-10 + Current Defs)	Replacement Cost	5-Year FCA
Exterior Site								
	Exterior Site	\$0	\$0	\$0	\$0	\$0	\$0	
Permanen	Permanent Building(s)							
195A	Admin, Classrooms	\$3,641	\$0	\$1,582,520	\$3,641	\$1,586,161	\$30,638,790	99.99%
	Sub Total for Permanent Building(s):	\$3,641	\$0	\$1,582,520	\$3,641	\$1,586,161	\$30,638,788	
	Total for Site:	\$3,641	\$0	\$1,582,520	\$3,641	\$1,586,161	\$30,638,788	99.99%

Facility Condition Assessment





Approach and Methodology

A facility condition assessment evaluates each building's overall condition. Two components of the facility condition assessment are combined to total the cost for facility need. The two components of the facility condition assessment are current deficiencies and life cycle forecast.

Current Deficiencies: Deficiencies are items in need of repair or replacement as a result of being broken, obsolete, or beyond useful life. The existing deficiencies that currently require correction are identified and assigned a priority. An example of a current deficiency might include a broken lighting fixture or an inoperable roof top air conditioning unit.

Life Cycle Forecast: Life cycle analysis evaluates the ages of a building's systems to forecast system replacement as they reach the end of serviceable life. An example of a life cycle system replacement is a roof with a 20-year life that has been in place for 15 years and may require replacement in five years.

All members of the survey team recorded existing conditions, identified problems and deficiencies, and documented corrective action and quantities. The team took digital photos at each site to better identify significant deficiencies.

Facility Deficiency Priority Levels

Deficiencies were ranked according to five priority levels, with Priority 1 items being the most critical to address:

Priority 1 – **Mission Critical Concerns:** Deficiencies or conditions that may directly affect the site's ability to remain open or deliver the educational curriculum. These deficiencies typically relate to building safety, code compliance, severely damaged or failing building components, and other items that require near-term correction. An example of a Priority 1 deficiency is a fire alarm system replacement.

Priority 2 - Indirect Impact to Educational Mission: Items that may progress to a Priority 1 item if not addressed in the near term. Examples of Priority 2 deficiencies include inadequate roofing that could cause deterioration of integral building systems, and conditions affecting building envelopes, such as roof and window replacements.

Priority 3 - Short-Term Conditions: Deficiencies that are necessary to the site's mission but may not require immediate attention. These items should be considered necessary improvements required to maximize facility efficiency and usefulness. Examples of Priority 3 items include site improvements and plumbing deficiencies.

Priority 4 - Long-Term Requirements: Items or systems that may be considered improvements to the instructional environment. The improvements may be aesthetic or provide greater functionality. Examples include cabinets, finishes, paving, removal of abandoned equipment, and educational accommodations associated with special programs.

Priority 5 - Enhancements: Deficiencies aesthetic in nature or considered enhancements. Typical deficiencies in this priority include repainting, replacing carpet, improved signage, or other improvements to the facility environment.

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The following table summarizes this site's current deficiencies by building system and priority.

Table 2: System by Priority (Site & Permanent Buildings)

		Priority					
System	1	2	3	4	5	Total	% of Total
Site	\$0	\$0	\$0	\$0	\$0	\$0	0.00 %
Roofing	\$0	\$0	\$0	\$3,641	\$0	\$3,641	100.00 %
Structural	\$0	\$0	\$0	\$0	\$0	\$0	0.00 %
Exterior	\$0	\$0	\$0	\$0	\$0	\$0	0.00 %
Interior	\$0	\$0	\$0	\$0	\$0	\$0	0.00 %
Mechanical	\$0	\$0	\$0	\$0	\$0	\$0	0.00 %
Electrical	\$0	\$0	\$0	\$0	\$0	\$0	0.00 %
Plumbing	\$0	\$0	\$0	\$0	\$0	\$0	0.00 %
Fire and Life Safety	\$0	\$0	\$0	\$0	\$0	\$0	0.00 %
Conveyances	\$0	\$0	\$0	\$0	\$0	\$0	0.00 %
Specialties	\$0	\$0	\$0	\$0	\$0	\$0	0.00 %
Crawlspace	\$0	\$0	\$0	\$0	\$0	\$0	0.00 %
Total:	\$0	\$0	\$0	\$3,641	\$0	\$3,641	

The building systems at the site with the most need include:

Roofing	-	\$3,641
Interior	-	\$0
Fire and Life Safety	-	\$0



The chart below represents the building systems and associated deficiency costs.

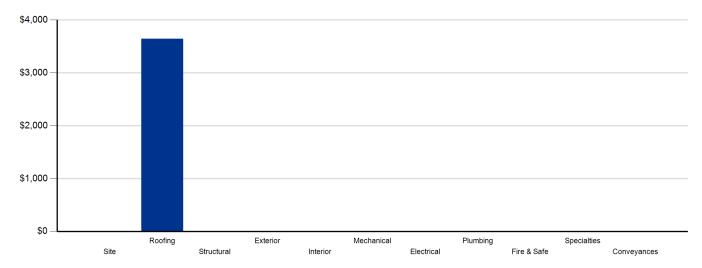


Figure 1: System Deficiencies



Life Cycle Capital Renewal Forecast

During the facility condition assessment, assessors inspected all major building systems. If an assessor identified a need for immediate replacement, a deficiency was created with the item's repair costs. The identified deficiency contributes to the facility's total current repair costs.

However, capital planning scenarios span multiple years, as opposed to being constrained to immediate repairs. Construction projects may begin several years after the initial facility condition assessment. Therefore, in addition to the current year repair costs, it is necessary to forecast the facility's future costs using a ten-year life cycle renewal forecast model.

Life cycle renewal is the projection of future building system costs based upon each individual system's expected serviceable life. Building systems and components age over time, eventually break down, reach the end of their useful lives, and may require replacement. While an item may be in good condition now, it might reach the end of its life before a planned construction project occurs.

The following tables show current deficiencies and the subsequent ten-year life cycle capital renewal projections. The projections outline costs for major building systems in which a component is expected to reach the end of its useful life and require capital funding for replacement.

Table 3a: Capital Renewal Forecast (Yrs 1-5)

	Life Cycle Capital Renewal Projections							
System	Year 1 2023	Year 2 2024	Year 3 2025	Year 4 2026	Year 5 2027	Total 1-5		
Site	\$0	\$0	\$0	\$0	\$0	\$0		
Roofing	\$0	\$0	\$0	\$0	\$0	\$0		
Exterior	\$0	\$0	\$0	\$0	\$0	\$0		
Interior	\$0	\$0	\$0	\$0	\$0	\$0		
Mechanical	\$0	\$0	\$0	\$0	\$0	\$0		
Electrical	\$0	\$0	\$0	\$0	\$0	\$0		
Plumbing	\$0	\$0	\$0	\$0	\$0	\$0		
Fire and Life Safety	\$0	\$0	\$0	\$0	\$0	\$0		
Conveyances	\$0	\$0	\$0	\$0	\$0	\$0		
Specialties	\$0	\$0	\$0	\$0	\$0	\$0		
Crawlspace	\$0	\$0	\$0	\$0	\$0	\$0		
Total	\$0	\$0	\$0	\$0	\$0	\$0		



Table 3b: Capital Renewal Forecast (Yrs 6-10)

		Life Cycle Capital Renewal Projections						
System	Total 1-5	Year 6 2028	Year 7 2029	Year 8 2030	Year 9 2031	Year 10 2032	Total 6-10	Total 1-10
Site	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Roofing	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Exterior	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Interior	\$0	\$0	\$326,095	\$141,743	\$0	\$198,569	\$666,407	\$666,407
Mechanical	\$0	\$0	\$0	\$0	\$0	\$896,999	\$896,999	\$896,999
Electrical	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Plumbing	\$0	\$0	\$0	\$0	\$0	\$19,114	\$19,114	\$19,114
Fire and Life Safety	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Conveyances	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Specialties	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Crawlspace	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Total	\$0	\$0	\$326,095	\$141,743	\$0	\$1,114,682	\$1,582,520	\$1,582,520

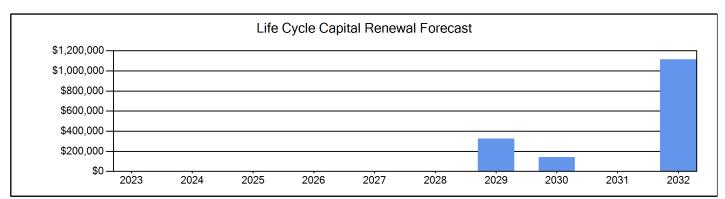


Figure 2: Ten Year Capital Renewal Forecast



Facility Condition Assessment Score

The Facility Condition Assessment Score (FCAS) is used throughout the facility condition assessment industry as a general indicator of a building's health. The FCAS is used to benchmark the relative condition of a group of sites. The FCAS is derived by dividing the total repair cost, site-related repairs, by the total replacement cost and subtracting it from 100. A facility with a lower FCAS percentage has more need, or higher priority, than a facility with a lower FCAS. It should be noted that costs in the New Construction category are not included in the FCAS calculation.

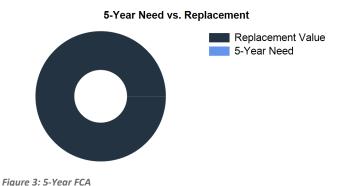
FCAS = 100 - (Total Repair Cost/ Replacement Cost)

For master planning purposes, the total current deficiencies and the first five years of projected life cycle needs were combined. This provides an understanding of the current needs of a facility as well as the projected needs in the near future. A 5-year FCAS was calculated by dividing the 5-year need by the total replacement cost. Costs associated with new construction are not included in the FCAS calculation.



Financial modeling has shown that over a 30-year period, it is more cost effective to replace than repair sites with a FCAS of 35 percent or greater. This is due to efficiency gains with facilities that are more modern and the value of the building at the end of the analysis period. It is important to note that the FCAS at which a facility should be considered for replacement is typically debated and adjusted based on property owners and facility managers approach to facility management. Of course, FCAS is not the only factor used to identify buildings that need renovation, replacement, or even closure. Historical significance, enrollment trends, community sentiment, and the availability of capital are additional factors that are analyzed when making campus facility decisions.

The replacement value represents the estimated cost of replacing the current building with another building of like size, based on today's estimated cost of construction in the Austin area. The estimated replacement cost for this facility is \$30,638,788. For planning purposes, the total 5-year need at the Bear Creek ES is \$3,641 (Life Cycle Years 1-5 plus the FCA deficiency cost). The Bear Creek ES facility has a 5-year FCA of 99.99%.



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Bear Creek ES - Deficiency Summary Building: 195A - Admin, Classrooms Roofing

Deficiency			Category	Qty UoM	Priority	Repair Cost	ID
Permaner	nt Roof Acce	ess Installation	Deferred Maintenance	1 Ea.	4	\$3,641	5908
	Note:	Access ladder to mezzanine and HVAC Equipment is unsafe. Ladd mezzanine floor and exit the ladder.	er does not extend to a level	to allow a techr	nician to sat	ely access the	
	Location:	Room A-127A Cafe Chair Storage room					
			Sub Total for System	1 items		\$3,641	
		Sub Total for Building 195	iA - Admin, Classrooms	1 items		\$3,641	
			Total for Campus	1 items		\$3,641	



Bear Creek ES - Life Cycle Summary Yrs 1-10

Building: 195A - Admin, Classrooms

Interior

Uniformat Description		LC Type Description		Qty	UoM	Repair Cost	Remaining Life
Wall Painting and Coating		Painting/Staining (Bldg SF)	-	72,774	SF	\$326,095	7
Carpeting		Carpet		11,196	SF	\$141,743	8
Acoustical Suspended Ceilings		Ceilings - Acoustical Tiles		48,516	SF	\$163,827	10
Suspended Plaster and		Painted ceilings		7,464	SF	\$15,545	10
Wall Coverings		FRP Wall Finish		933	SF Wall	\$7,098	10
Compartments and Cubicles		Toilet Partitions		6	Stall	\$12,099	10
			Sub Total for System	6	items	\$666,406	
Mechanical							
Uniformat Description		LC Type Description		Qty	UoM	Repair Cost	Remaining Life
Facility Hydronic Distribution		Pump- 10HP (Ea.)	,	2	Ea.	\$23,121	10
Facility Hydronic Distribution		Pump- 25HP (Ea.)		2	Ea.	\$28,763	10
Facility Hydronic Distribution		Pump- 25HP (Ea.)		2	Ea.	\$28,763	10
	Note:	20 hp pumps					
Heat Generation		Boiler - Copper Tube (2400 MBH)		2	Ea.	\$194,871	10
	Note:	Lochinvar Crest Boilers, 2,000,000 BTU/HR					
Central Cooling		Chiller - Outdoor Air Cooled (300 Tons)		2	Ea.	\$551,435	10
	Note:	2 each 250 ton air cooled chillers					
Other HVAC Distribution Systems		VFD (7.5 HP)		1	Ea.	\$5,223	10
Other HVAC Distribution Systems		VFD (10 HP)		3	Ea.	\$17,122	10
Other HVAC Distribution Systems		VFD (20 HP)		3	Ea.	\$26,452	10
Other HVAC Distribution Systems		VFD (25 HP)		2	Ea.	\$21,249	10
			Sub Total for System	9	items	\$896,999	
Plumbing							
Uniformat Description		LC Type Description		Qty	UoM	Repair Cost	Remaining Life
Domestic Water Equipment		Water Heater - Electric - 20 gallon		4	Ea.	\$6,346	10
Domestic Water Equipment		Water Heater - Gas - 100 Gallon		2	Ea.	\$12,768	10
			Sub Total for System	2	items	\$19,114	
		Sub Total for Building	g 195A - Admin, Classrooms	17	items	\$1,582,519	
			Total for: Bear Creek ES	17	items	\$1,582,519	



Supporting Photos

General Site Photos



Ladder deficiency, cafeteria chair storage room.



Theater Stage



Gymnasium



Gymnasium Roof Structure



Outdoor Courtyard

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