



# FACILITY CONDITION ASSESSMENT

*Overton ES* | February 2022



## Executive Summary

Overton ES is located at 7201 Colony Loop Dr in Austin, Texas. The oldest building is 13 years old (at time of 2020 assessment). It comprises 83,405 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 \$69,313. 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 Overton ES the ten-year need is \$5,837,017.

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 Overton ES facility has a 5-year FCA score of 81.26%.

## Summary of Findings

The table below summarizes the condition findings at Overton 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
<b>Exterior Site</b>								
	Exterior Site	\$0	\$1,594,244	\$0	\$1,594,244	\$1,594,244	\$0	
<b>Permanent Building(s)</b>								
189A	Main building includes Administration Offices, Classrooms, Cafeteria.	\$69,313	\$3,469,140	\$704,320	\$3,538,453	\$4,242,773	\$27,389,370	87.08%
<b>Sub Total for Permanent Building(s):</b>		<b>\$69,313</b>	<b>\$3,469,140</b>	<b>\$704,320</b>	<b>\$3,538,453</b>	<b>\$4,242,773</b>	<b>\$27,389,370</b>	
<b>Total for Site:</b>		<b>\$69,313</b>	<b>\$5,063,384</b>	<b>\$704,320</b>	<b>\$5,132,697</b>	<b>\$5,837,017</b>	<b>\$27,389,370</b>	<b>81.26%</b>

## 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.

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

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

System	Priority					Total	% of Total
	1	2	3	4	5		
Site	\$0	\$0	\$0	\$0	\$0	\$0	0.00 %
Roofing	\$0	\$0	\$0	\$0	\$0	\$0	0.00 %
Structural	\$0	\$0	\$0	\$0	\$0	\$0	0.00 %
Exterior	\$0	\$0	\$0	\$0	\$0	\$0	0.00 %
Interior	\$0	\$0	\$0	\$50,641	\$0	\$50,641	73.06 %
Mechanical	\$0	\$0	\$0	\$0	\$0	\$0	0.00 %
Electrical	\$0	\$0	\$1,069	\$0	\$0	\$1,069	1.54 %
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	\$17,604	\$0	\$17,604	25.40 %
Crawlspace	\$0	\$0	\$0	\$0	\$0	\$0	0.00 %
<b>Total:</b>	\$0	\$0	\$1,069	\$68,244	\$0	\$69,313	

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

Interior	-	\$50,641
Specialties	-	\$17,604
Electrical	-	\$1,069

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

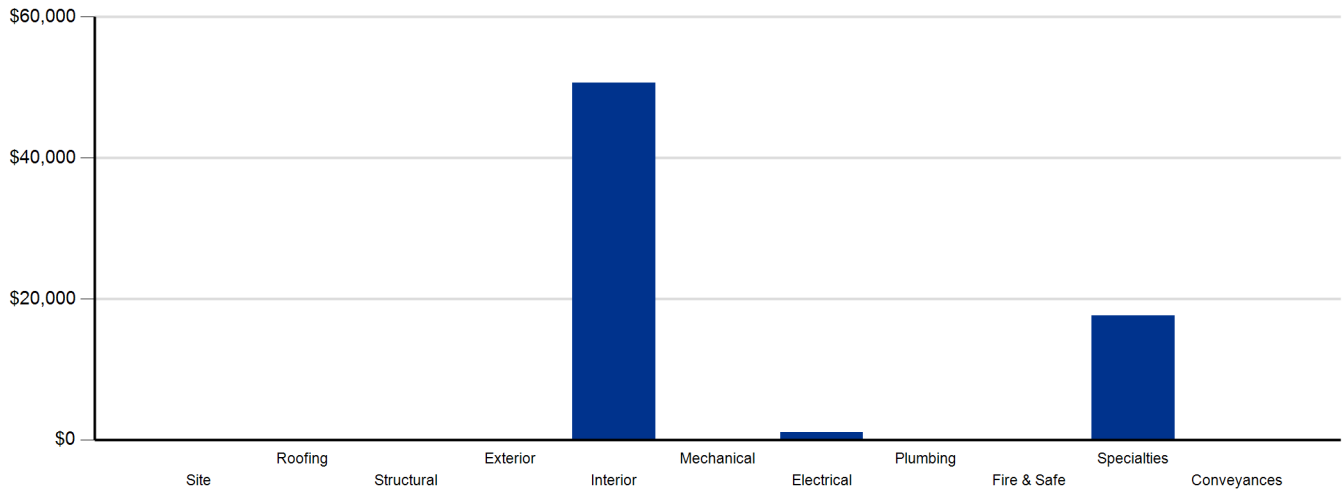


Figure 1: System Deficiencies

## 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)

System	Life Cycle Capital Renewal Projections					Total 1-5
	Year 1 2023	Year 2 2024	Year 3 2025	Year 4 2026	Year 5 2027	
Site	\$0	\$0	\$0	\$0	\$1,139,895	\$1,139,895
Roofing	\$0	\$0	\$0	\$0	\$163,366	\$163,366
Exterior	\$0	\$0	\$0	\$0	\$0	\$0
Interior	\$0	\$0	\$0	\$54,958	\$1,500,802	\$1,555,760
Mechanical	\$0	\$0	\$244,769	\$478,706	\$453,644	\$1,177,119
Electrical	\$0	\$0	\$0	\$0	\$297,232	\$297,232
Plumbing	\$0	\$0	\$19,936	\$332,543	\$123,096	\$475,575
Fire and Life Safety	\$0	\$0	\$0	\$0	\$0	\$0
Conveyances	\$0	\$0	\$0	\$0	\$7,985	\$7,985
Specialties	\$0	\$0	\$0	\$0	\$246,452	\$246,452
Crawlspace	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$0</b>	<b>\$0</b>	<b>\$264,705</b>	<b>\$866,207</b>	<b>\$3,932,472</b>	<b>\$5,063,384</b>

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

System	Life Cycle Capital Renewal Projections					Total 6-10	Total 1-10
	Total 1-5	Year 6 2028	Year 7 2029	Year 8 2030	Year 9 2031		
Site	\$1,139,895	\$0	\$0	\$0	\$0	\$0	\$1,139,895
Roofing	\$163,366	\$0	\$0	\$0	\$0	\$0	\$163,366
Exterior	\$0	\$0	\$0	\$0	\$0	\$426,033	\$426,033
Interior	\$1,555,760	\$0	\$0	\$287,925	\$0	\$34,619	\$1,878,304
Mechanical	\$1,177,119	\$0	\$0	\$0	\$0	\$0	\$1,177,119
Electrical	\$297,232	\$0	\$0	\$0	\$0	\$0	\$297,232
Plumbing	\$475,575	\$0	\$0	\$6,384	\$0	\$0	\$481,959
Fire and Life Safety	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Conveyances	\$7,985	\$0	\$0	\$0	\$0	\$0	\$7,985
Specialties	\$246,452	\$0	\$0	\$0	\$0	\$0	\$246,452
Crawlspace	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Total</b>	<b>\$5,063,384</b>	<b>\$0</b>	<b>\$0</b>	<b>\$294,309</b>	<b>\$0</b>	<b>\$460,652</b>	<b>\$5,818,345</b>

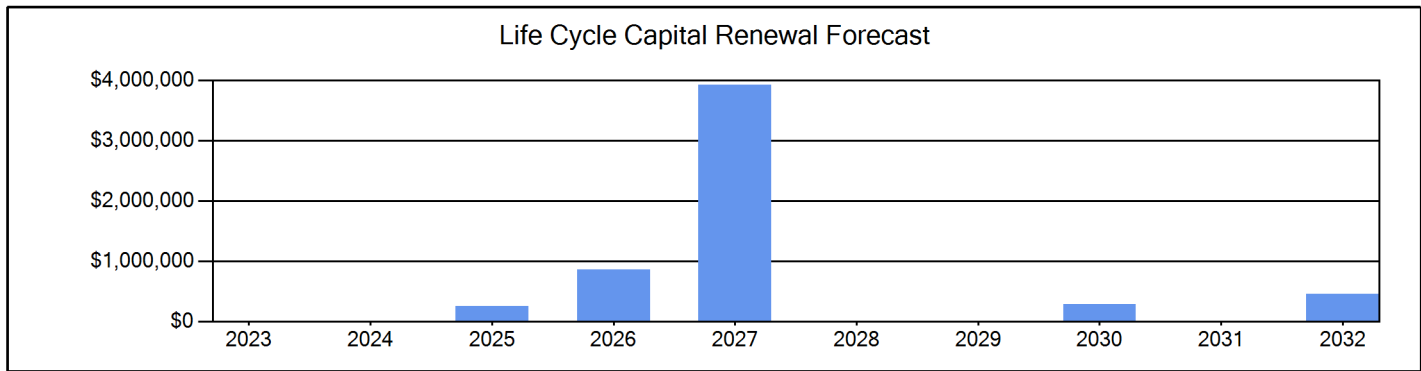


Figure 2: Ten Year Capital Renewal Forecast

## 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.

$$FCAS = 100 - (\text{Total Repair Cost} / \text{Replacement Cost})$$

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.

- Very Unsatisfactory (0-35)
- Unsatisfactory (36-50)
- Average (51-65)
- Satisfactory (66-80)
- Very Satisfactory (81-100)

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 \$27,389,370. For planning purposes, the total 5-year need at the Overton ES is \$5,132,697 (Life Cycle Years 1-5 plus the FCA deficiency cost). The Overton ES facility has a 5-year FCA of 81.26%.

5-Year Need vs. Replacement

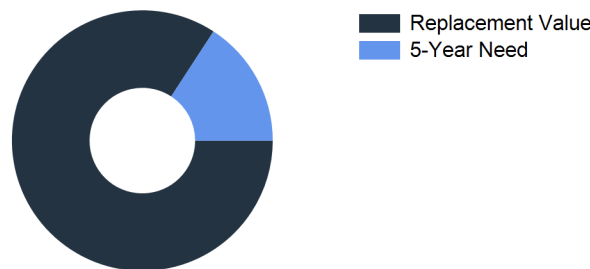


Figure 3: 5-Year FCA



**Overton ES - Deficiency Summary**

**Building: 189A - Main building includes Administration Offices, Classrooms, Cafeteria.**

**Interior**

Deficiency	Category	Qty	UoM	Priority	Repair Cost	ID
Carpet Flooring Replacement <b>Note:</b> water damage	Capital Renewal	4,000	SF	4	\$50,641	4647
<b>Sub Total for System</b>		<b>1</b>	<b>items</b>		<b>\$50,641</b>	

**Electrical**

Deficiency	Category	Qty	UoM	Priority	Repair Cost	ID
Electrical Receptacle Replacement <b>Note:</b> floor receptacles, water damage due to recent flooding <b>Location:</b> 5 in library, 3 in main admin office	Capital Renewal	8	Ea.	3	\$1,069	4655
<b>Sub Total for System</b>		<b>1</b>	<b>items</b>		<b>\$1,069</b>	

**Specialties**

Deficiency	Category	Qty	UoM	Priority	Repair Cost	ID
Replace Cabinetry In Classes/Labs <b>Location:</b> admin area	Capital Renewal	2	Room	4	\$17,604	4648
<b>Sub Total for System</b>		<b>1</b>	<b>items</b>		<b>\$17,604</b>	
<b>Sub Total for Building 189A - Main building includes Administration Offices, Classrooms, Cafeteria.</b>		<b>3</b>	<b>items</b>		<b>\$69,313</b>	
<b>Total for Campus</b>		<b>3</b>	<b>items</b>		<b>\$69,313</b>	

## Overton ES - Life Cycle Summary Yrs 1-10

### Site Level Life Cycle Items

#### Site

Uniformat Description	LC Type Description	Qty	UoM	Repair Cost	Remaining Life
Fences and Gates	Fencing - Chain Link (8-10 Ft)	2,500	LF	\$195,862	5
Parking Lot Pavement	Asphalt	166	CAR	\$240,833	5
Roadway Pavement	Asphalt Driveways	109,355	SF	\$703,200	5
<b>Sub Total for System</b>		<b>3</b>	<b>items</b>	<b>\$1,139,895</b>	

#### Roofing

Uniformat Description	LC Type Description	Qty	UoM	Repair Cost	Remaining Life
Canopy Roofing	Steel panels	3,220	SF	\$163,366	5
<b>Sub Total for System</b>		<b>1</b>	<b>items</b>	<b>\$163,366</b>	

#### Electrical

Uniformat Description	LC Type Description	Qty	UoM	Repair Cost	Remaining Life
Parking Lot Lighting	Pole Lighting	50	Ea.	\$290,983	5
<b>Sub Total for System</b>		<b>1</b>	<b>items</b>	<b>\$290,983</b>	
<b>Sub Total for Building -</b>		<b>5</b>	<b>items</b>	<b>\$1,594,244</b>	

### Building: 189A - Main building includes Administration Offices, Classrooms, Cafeteria.

#### Exterior

Uniformat Description	LC Type Description	Qty	UoM	Repair Cost	Remaining Life
Exterior Operating Windows	Aluminum - Windows per SF	2,688	SF	\$268,066	10
	<b>Note:</b> 8' X 4'				
Exterior Operating Windows	Aluminum - Windows per SF	384	SF	\$38,295	10
	<b>Note:</b> 4' X 2'				
Exterior Operating Windows	Aluminum - Windows per SF	768	SF	\$76,590	10
	<b>Note:</b> 4' X 4'				
Exterior Operating Windows	Aluminum - Windows per SF	144	SF	\$14,361	10
	<b>Note:</b> 2' X 2'				
Exterior Operating Windows	Aluminum - Windows per SF	288	SF	\$28,721	10
	<b>Note:</b> 3' X 4'				
<b>Sub Total for System</b>		<b>5</b>	<b>items</b>	<b>\$426,033</b>	

#### Interior

Uniformat Description	LC Type Description	Qty	UoM	Repair Cost	Remaining Life
Carpeting	Carpet	4,341	SF	\$54,958	4
Wall Painting and Coating	Painting/Staining (Bldg SF)	75,065	SF	\$336,361	5
Compartments and Cubicles	Toilet Partitions	40	Stall	\$80,659	5
Resilient Flooring	Vinyl Composition Tile Flooring	70,894	SF	\$579,751	5
Interior Swinging Doors	Wooden Door	150	Door	\$281,340	5
Interior Door Supplementary Components	Door Hardware	150	Door	\$222,691	5
Acoustical Suspended Ceilings	Ceilings - Acoustical Tiles	62,554	SF	\$211,229	8
Suspended Plaster and	Painted ceilings	12,511	SF	\$26,055	8
Carpeting	Carpet	4,000	SF	\$50,641	8
Tile Wall Finish	Ceramic Tile wall	4,170	SF	\$34,619	10
<b>Sub Total for System</b>		<b>10</b>	<b>items</b>	<b>\$1,878,304</b>	

#### Mechanical

Uniformat Description	LC Type Description	Qty	UoM	Repair Cost	Remaining Life
Heat Generation	Boiler - Copper Tube (1600 MBH)	2	Ea.	\$142,587	3
Central Cooling	Cooling Tower - Metal (300 Tons)	1	Ea.	\$57,829	3
Facility Hydronic Distribution	Pump - 5HP	1	Ea.	\$6,850	3
Facility Hydronic Distribution	Pump- 10HP (Ea.)	1	Ea.	\$11,561	3
Facility Hydronic Distribution	Pump- 10HP (Ea.)	1	Ea.	\$11,561	3
Facility Hydronic Distribution	Pump- 25HP (Ea.)	1	Ea.	\$14,381	3
Decentralized Heating Equipment	Unit Heater Steam/HW (50 MBH)	1	Ea.	\$1,357	4
Central Cooling	Chiller - Indoor Water Cooled (450 Ton)	1	Ea.	\$265,143	4
Decentralized Cooling	Condenser - Outside Air Cooled (3 Tons)	2	Ea.	\$12,845	4
Decentralized Cooling	Ductless Split System (1 Ton)	1	Ea.	\$3,004	4

**Mechanical**

Uniformat Description	LC Type Description	Qty	UoM	Repair Cost	Remaining Life
Decentralized Cooling	Fan Coil - Water Cool/Water Heat ( 2 Ton)	12	Ea.	\$25,577	4
Decentralized Cooling	Fan Coil - Water Cool/Water Heat ( 3 Ton)	31	Ea.	\$105,092	4
Decentralized Cooling	Fan Coil - Water Cool/Water Heat (5 Ton)	7	Ea.	\$39,997	4
Decentralized Cooling	Condenser - Outside Air Cooled (3 Tons)	3	Ea.	\$19,268	4
Decentralized Cooling	Condenser - Outside Air Cooled (3 Tons)	1	Ea.	\$6,423	4
HVAC Air Distribution	AHU 15,000 CFM Outdoor	1	Ea.	\$144,126	5
HVAC Air Distribution	AHU 5,000 CFM Outdoor	2	Ea.	\$98,867	5
HVAC Air Distribution	AHU 5,000 CFM Outdoor	2	Ea.	\$98,867	5
Exhaust Air	Roof Exhaust Fan - Small	3	Ea.	\$5,879	5
Exhaust Air	Roof Exhaust Fan - Large	9	Ea.	\$72,326	5
Exhaust Air	Interior Ceiling Exhaust Fan	46	Ea.	\$22,388	5
Exhaust Air	Kitchen Exhaust Hoods	1	Ea.	\$11,191	5
<b>Sub Total for System</b>		<b>22</b>	<b>items</b>	<b>\$1,177,117</b>	

**Electrical**

Uniformat Description	LC Type Description	Qty	UoM	Repair Cost	Remaining Life
Lighting Fixtures	Canopy Mounted Fixtures (Ea.)	3	Ea.	\$6,249	5
<b>Sub Total for System</b>		<b>1</b>	<b>items</b>	<b>\$6,249</b>	

**Plumbing**

Uniformat Description	LC Type Description	Qty	UoM	Repair Cost	Remaining Life
Domestic Water Equipment	Water Heater - Electric - 20 gallon	1	Ea.	\$1,587	3
Domestic Water Equipment	Water Heater - Electric - 5 to 10 gallon	1	Ea.	\$1,264	3
Domestic Water Equipment	Water Heater - Gas - 75 Gallons	1	Ea.	\$5,203	3
Domestic Water Equipment	Water Heater - Instant 3.2 GPM	6	Ea.	\$8,427	3
Domestic Water Equipment	Water Heater - Instant 6.4 GPM	2	Ea.	\$3,455	3
Plumbing Fixtures	Restroom Lavatory	15	Ea.	\$40,744	4
Plumbing Fixtures	Sink - Service / Mop Sink	5	Ea.	\$3,979	4
Plumbing Fixtures	Toilets	52	Ea.	\$263,088	4
Plumbing Fixtures	Urinals	2	Ea.	\$2,708	4
Plumbing Fixtures	Refrigerated Drinking Fountain	10	Ea.	\$22,024	4
Plumbing Fixtures	Classroom Lavatory	48	Ea.	\$123,096	5
Domestic Water Equipment	Water Heater - Gas - 100 Gallon	1	Ea.	\$6,384	8
<b>Sub Total for System</b>		<b>12</b>	<b>items</b>	<b>\$481,959</b>	

**Conveyances**

Uniformat Description	LC Type Description	Qty	UoM	Repair Cost	Remaining Life
Elevators	Passenger elevator cab finishes	1	Ea.	\$7,985	5
<b>Sub Total for System</b>		<b>1</b>	<b>items</b>	<b>\$7,985</b>	

**Specialties**

Uniformat Description	LC Type Description	Qty	UoM	Repair Cost	Remaining Life
Casework	Fixed Cabinetry	28	Room	\$246,452	5
<b>Sub Total for System</b>		<b>1</b>	<b>items</b>	<b>\$246,452</b>	

**Sub Total for Building 189A - Main building includes Administration Offices, Classrooms, Cafeteria. 52 items \$4,224,099**

**Total for: Overton ES 57 items \$5,818,344**

## Supporting Photos

### General Site Photos



Corroded floor electrical box



Corroding pumps



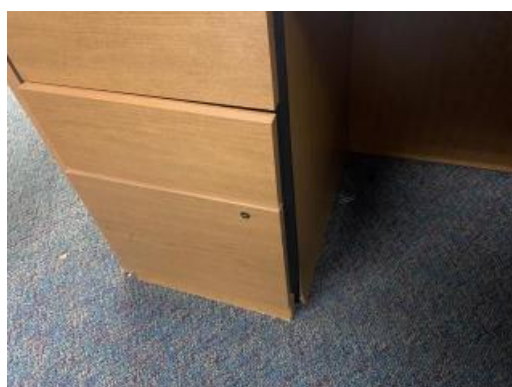
Corroding pumps and rusting area



Stained acoustical ceiling tiles



Exposed electrical equipment



Chipped wood drawers