

# Maintenance Bond Projects 2024 Bond Planning Committee

Presented by: Daniel Dornier NBISD Director of Facilities



	Benefits	Challenges		
Reactive (0-3 Years Out)	Maximum utilization and production value from asset	<ul> <li>Unplanned downtime</li> <li>Potential for further damage to the asset</li> <li>Higher maintenance costs</li> </ul>		
Preventive (3-5 Years Out)	<ul> <li>Lower maintenance costs</li> <li>Less equipment malfunction and unplanned downtime</li> </ul>	<ul> <li>Need for spare part and inventory management</li> <li>Increased planned downtime</li> <li>Maintenance on seemingly perfect assets</li> </ul>		



# Executive Summary – Total Maintenance Cost

Reactive Cost (0-3 Years Out)	Proactive Cost (3-5 Years Out)
HVAC	HVAC
Roofing	Roofing
Lighting	
Windows	
Sidewalks & Parking	
MEP Systems	





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<u>HVAC</u>	<u>(0-3 Years)</u>		<u>Totals</u>		<u>HVAC</u>	<u>(3-5 Years)</u>		Tot	<u>als</u>
Memorials - All Campuses & Automation			\$	550,000.00	Klein Road		\$	550,000.00	
Lone Star	Units & Automation		\$	650,000.00	Technology Building			\$	650,000.00
Lamar Or	nar Original Wing & Automation \$			1,576,000.00	Oak Run Rotunda Rooftops			\$	1,100,000.00
Walnut S	prings Chiller		\$	283,000.00					
Support S	Services HVAC System		\$	217,000.00					
Automati	ion Integration / Update	es	\$	180,000.00					
Seele Ele	Seele Elementary & Automation		\$	1,100,000.00					
Carl Schu	Carl Schurz Elementary & Automation		\$	1,400,000.00					
		<u>TOTAL</u>	\$	<i>5,956,000.00</i>			<b>TOTAL</b>	\$	2 <u>,300,000.00</u>



### District Automation System

### Project Cost



LEGACY SITES System UPGRADES	
LAMAR	\$ 280,000
CENTRAL KITCHEN	\$ 50,000
MEMORIAL	\$ 115,000
WALNUT SPRINGS	\$ 115,000
COUNTY LINE	\$ 105,000
LONE STAR	\$ 250,000



#### NATIVE SITES Device UPGRADES

OAK RUN	\$ 15,000
KLEIN ROAD	\$ 15,000
TRANSPORTATION	\$ 15,000
9 <sup>TH</sup> GRADE CENTER	\$ 15,000



VOSS FARMS	\$ 30,000
VERMENDI	\$ 30,000
NEW MIDDLE SCHOOL	\$ 30,000
ES#10 LEGEND POND	\$ 30,000

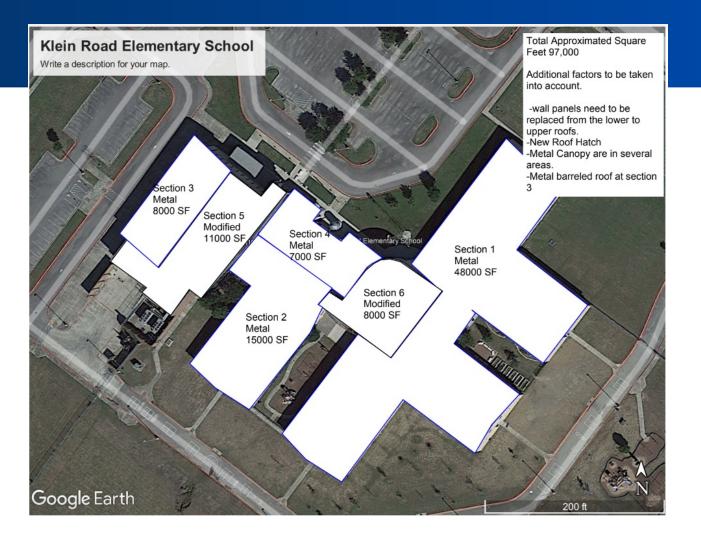






<u>Roofing</u>	<u>(0-3 Years</u>	<u>:)</u>		<u>Tot</u>	<u>als</u>	<u>Roofing</u>	<u>(3-5 Years)</u>			
Academy	St Gym			\$	393,750.00	Klein Road				\$ 704,900.00
Lamar				\$	745,180.00	Memorial				\$ 3,059,000.00
Oak Run				\$	1,793,330.00	Oak Run				\$ 2,374,210.00
Walnut Sp	orings			\$	2,394,000.00	County Lin	е			\$ 2,485,200.00
Technolog	gy (1040 Wa	alnut - Adm	in)	\$	559,250.00					
Carl Schur	Z			\$	1,080,000.00					
			<b>TOTAL</b>	\$	<u>6,965,510.00</u>			<u> </u>	TOTAL	\$ <u>8,623,310.00</u>

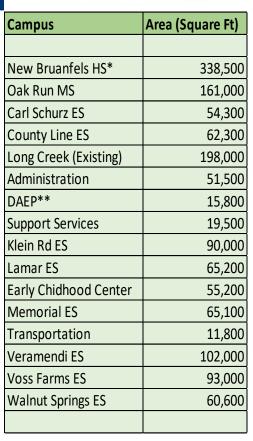






## Lighting

LED Retrofits and Upgrades

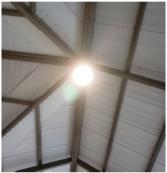


These campuses use a variety of Lighting Technology. There are T-12, T-8, and T-5 Fluorescent lighting technology, metal-halide, and LED. We propose replacing the interior and exterior lighting with LED.

\* The budget below does NOT include any LED upgrades at New Braunfels HS.







Typical Lighting Fixtures

Budget	% Electric Savings
\$1,500,000	12%-18%





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## Multiple Campuses – Carl Schurz, Seele, Lamar, Lone Star Early Childhood, Memorials



**Windows:** Replace wooden window unit at cafeteria. Replace all window units on B, E and D wing. Recaulk around all window frames on G and K wings and Cafeteria curtain walls.



**Windows:** Numerous window concerns observed and improvement recommendations provided.



**Windows:** The original single-pane windows are in need of replacement.



**Windows:** The older exterior windows are in need of replacement. Cleaning and resealing of newer windows recommended.









TYPE (AS APPLICABLE)	TYPE (AS APPLICABLE)  WOF LEVEL OF WOF SYSTEM BUDGE  BUILDING/OTY ACTION OR FINISH BUDGE		AUTOMATED BUDGET ESTIMATE	NOTES	
Plumbing					
Plumbing Fixtures	253	Moderate	15 %	\$143,490.36	Replace damaged restroom accessories, toilets and fixtures.
Domestic Water Distribution	100%	Replace	100 %	\$704,154.47	Replace infrastructure on B, E, D, G and Cafeteria buildings.
Sanitary Waste	100%	Replace	100 %	\$121,466.64	Replace infrastructure on B, E, D, G and Cafeteria buildings.
Electrical					
Electrical Service & Distribution	100%	Replace	69 %	\$343,156.04	Mechanical systems over 30 years old should be considered for replacement.
Lighting and Branch Wiring	100%	Replace	69 %	\$761,628.70	Consider replacing electrical systems that are over 30 years old in the B, E, D, G and Cafeteria buildings. Lighting levels in classrooms are on lower end, recommended upgrading lights to LED's
Executive Summary					

#### **Executive Summary**

Originally built in 1923 with various additions over the years, the east end of Lamar Elementary is in need of numerous improvements. Almost all building systems are in need of repair or replacement, giving these structures a Facility Condition Index of 99%. The district should consider replacement of many of the older buildings currently present on the campus or plan to perform comprehensive renovations of the structures. Major projects needed include the following building systems: foundation, exterior structure, roofing, HVAC, security, flooring, electrical, interior surfaces, doors, windows, and others. Costs associated with HVAC replacement are included in both this site and 2002 Additions.



#### **Facility Scorecard**

- Name: Lamar Elementary Original Buildings and Older Additions (...
- Address: 240 N. Central | New Braunfels, TX 78130
- Year Built: 1923



## Parking Lots and Sidewalks



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Oak Run Middle School

**New Braunfels Middle School** 



# <u>Executive Summary – Total</u> <u>Maintenance Cost</u>

Reactive Cost (0-3	Years Out)	Proactive Co	st (3-5 Years Out)
HVAC	\$5,956,000	HVAC	\$2,300,000
Roofing Lighting	\$6,965,510 \$1,500,000	Roofing	\$8,623,000
Windows* Sidewalks & Parking	\$1,540,800 \$950,000		
MEP Systems**  Total	\$5,725,000 <b>\$22,637,310</b>	Total	\$10,923,000
* Budget from TASB Das ** Systems at Carl Schul	shboard Model rz, Seele, Lone Star, Lamar		