# Phase I: Infrastructure Assessment February 23, 2022

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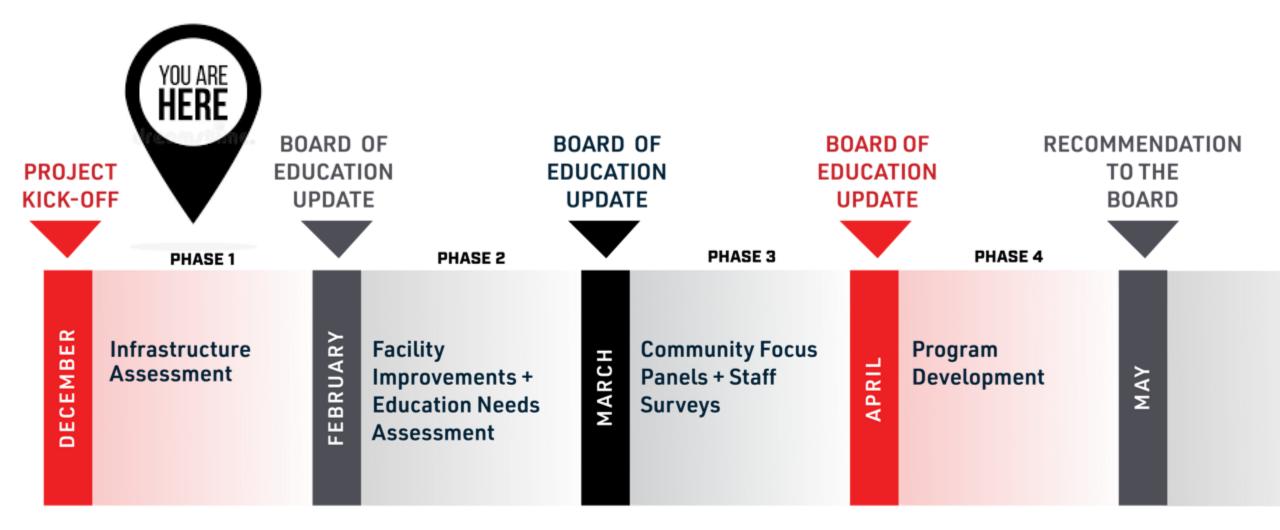
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### WHAT IS IN THE INFRASTRUCTURE ASSESSMENT?

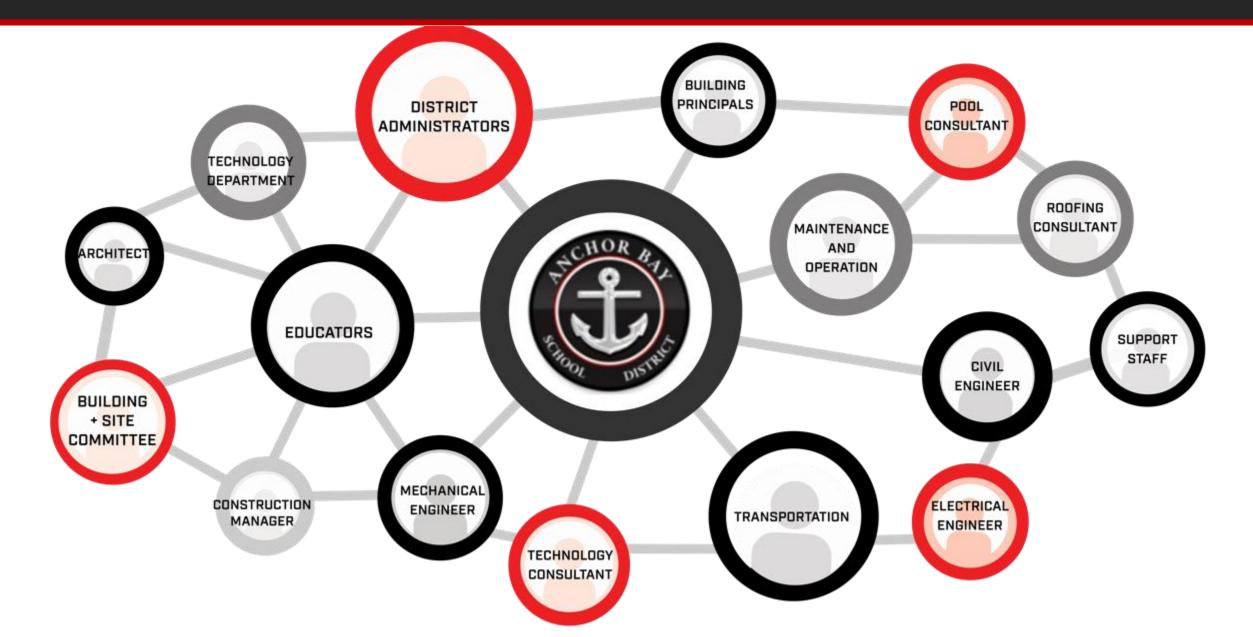
### WHAT IS NOT IN THIS ASSESSMENT?



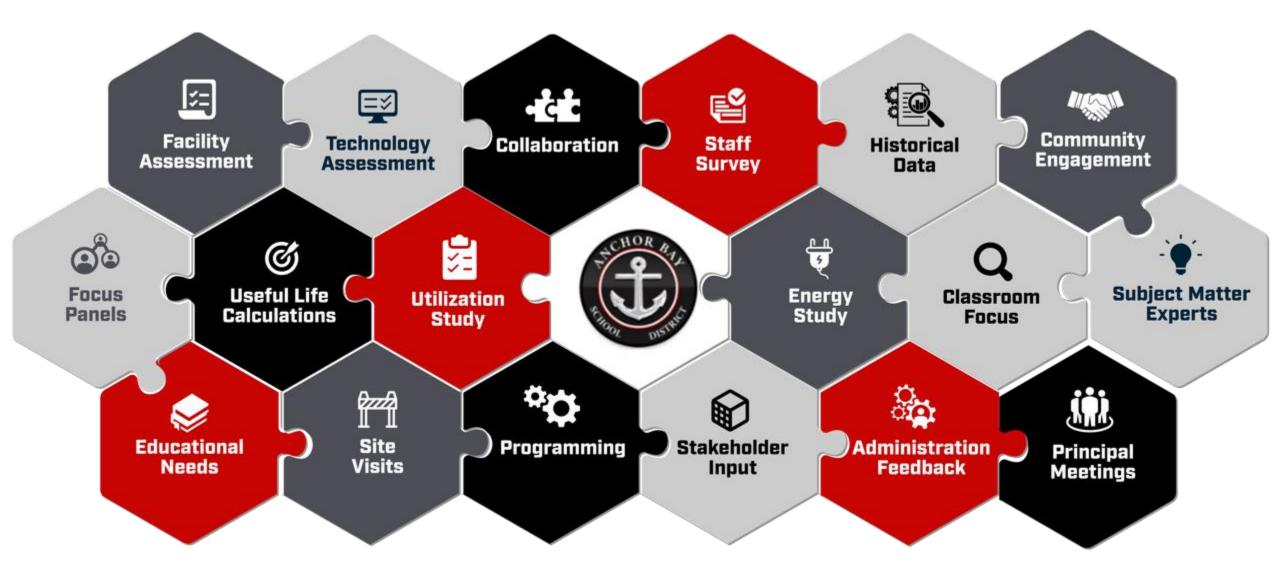
#### WHAT IS THE TIMELINE?



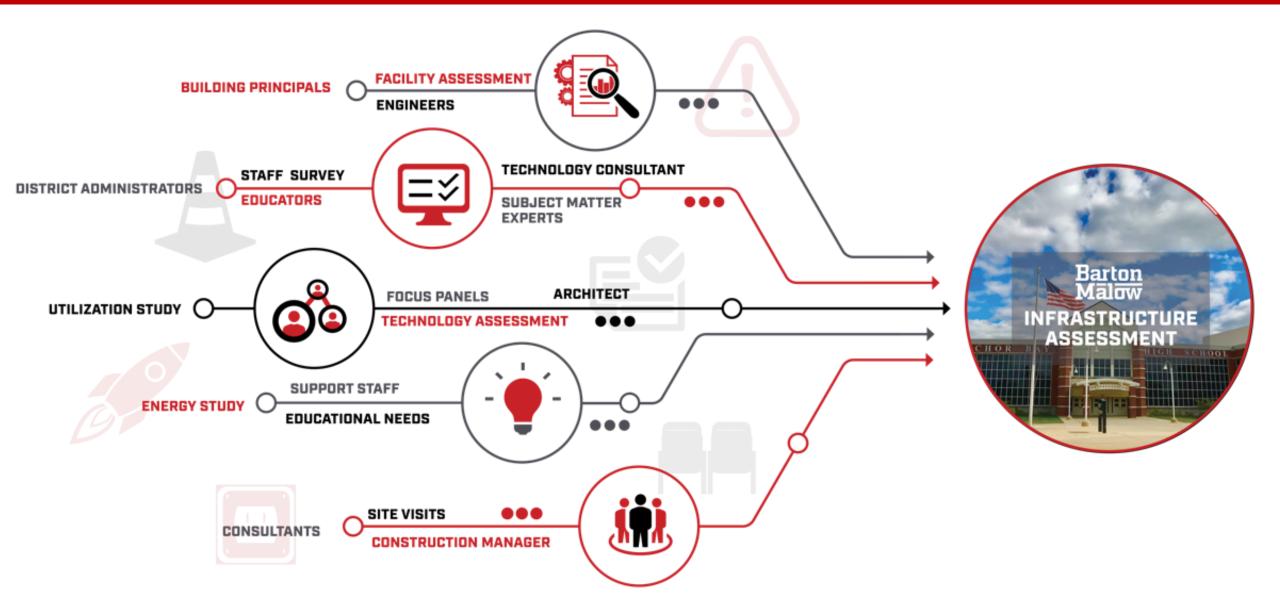
#### WHO IS PARTICIPATING?



#### WHAT IS THE PROCESS?



#### WHAT IS OUR PURPOSE?



#### **BACKGROUND INFORMATION**



# TOTAL: **\$210.7M**

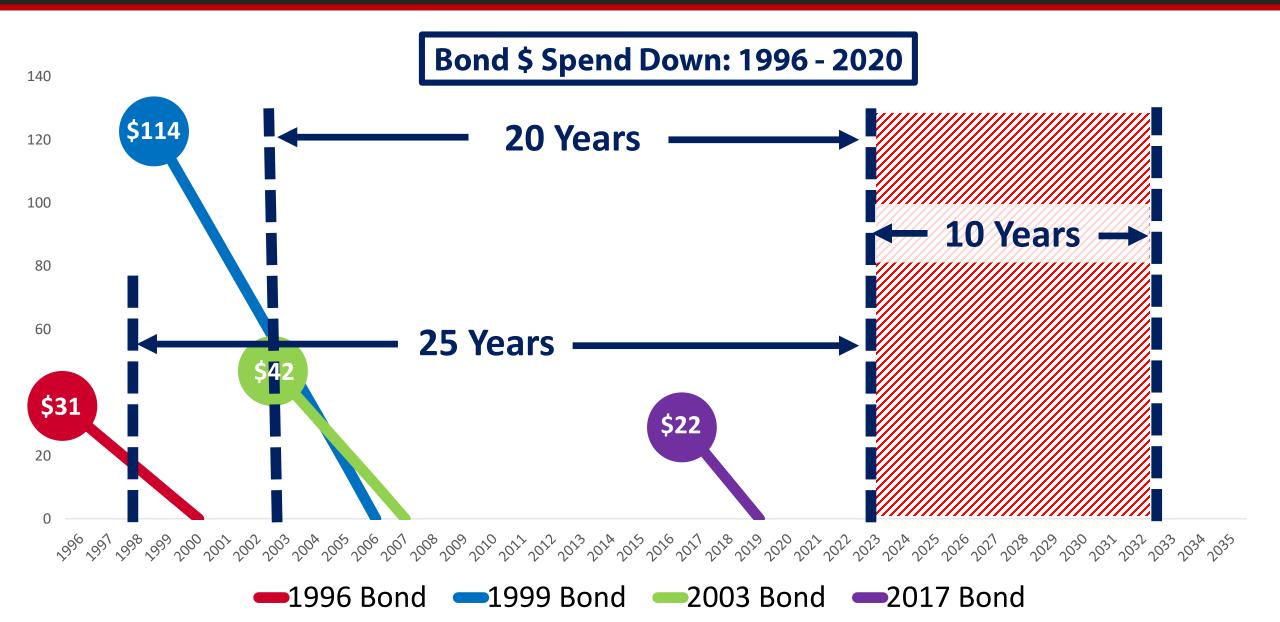
**\$2.6M/year** in capital improvement projects

**\$189K/facility** in annual improvement projects

**\$2.02/square foot** in annual improvement projects

**Total commitments over the last 20 years** 

#### **BACKGROUND INFORMATION**



# **Facility Assessment Findings**



Buildings and grounds are, overall, in fairly good condition

- Many key infrastructure components are nearing the end or past their useful life
- Investments will be needed to extend the useful life of the facilities
- Technology has not been a primary focus of recent bond programs



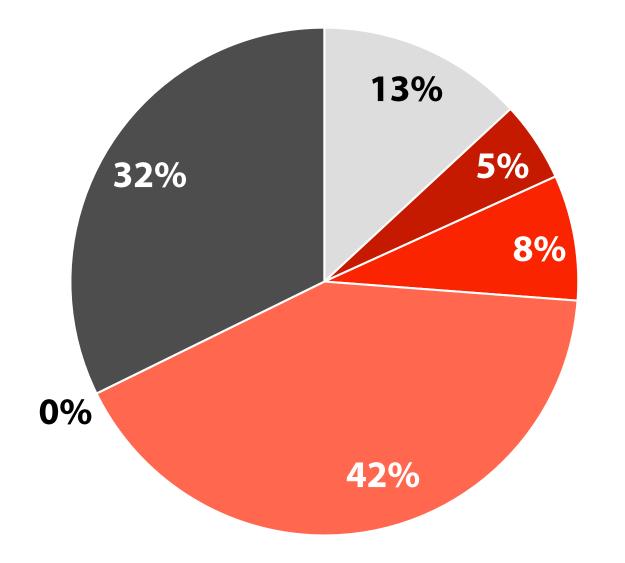


# **Critical Needs:**

Projects necessary over the next 1-3 years for the proper functioning of the building components and systems and to maintain the integrity of the existing structures.

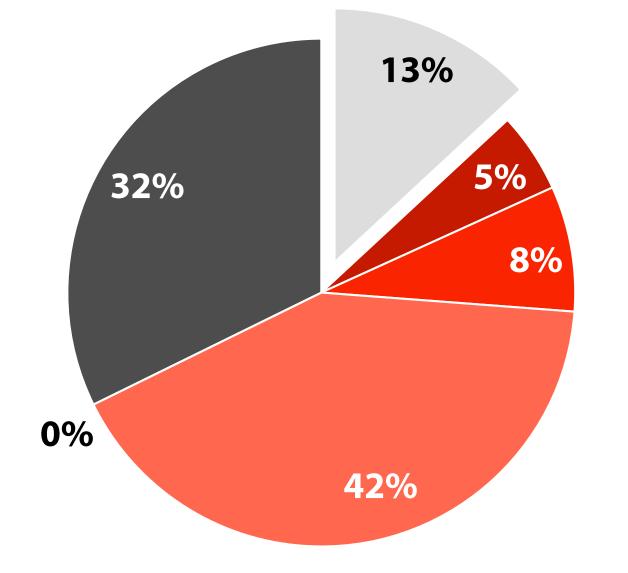


#### CRITICAL NEEDS - \$31.3M



- Roof Replacement \$4.1M
- Building Envelope \$1.6M
- Architectural Improvments \$2.5M
- Mechanical Systems \$13.0M
- Electrical Systems \$0M
- Site Paving \$10.1M

#### **ROOF REPLACEMENT - \$4.1M**

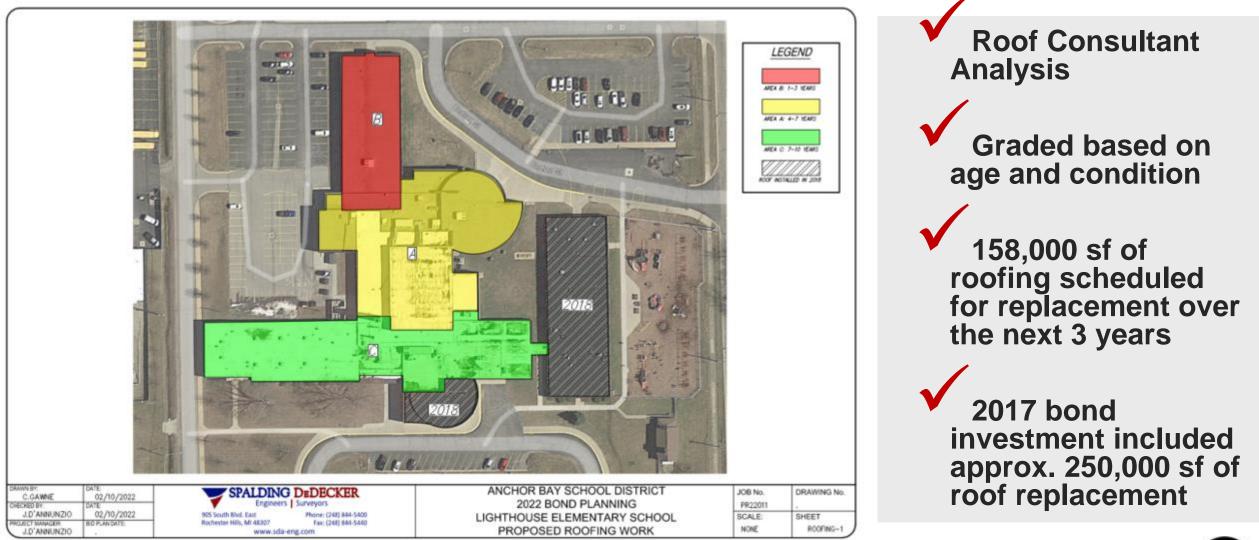


District has nearly 1.2M sf in roofing and must complete 40,000 sf of replacement annually to maintain a 25-year replacement cycle

Replace roofing systems rated "poor" per District's roofing consultant

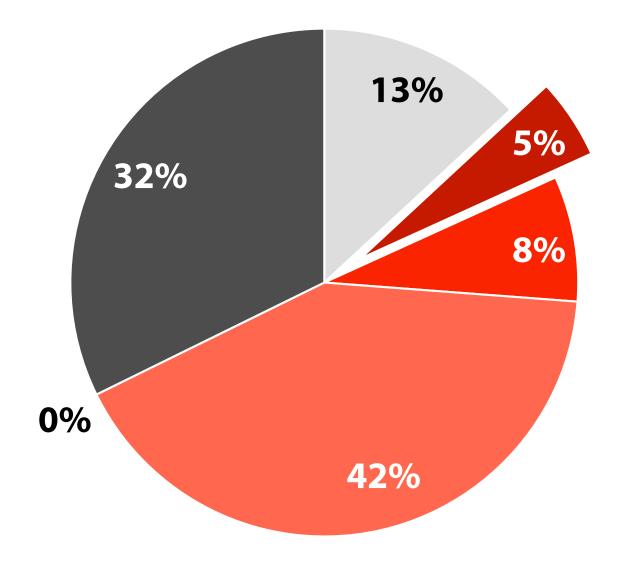
Critical Needs (1-3 years) – \$31.3M

#### **ROOF REPLACEMENT - \$4.1M**





#### **BUILDING ENVELOPE - \$1.6M**



Projects designed to extend the useful life of the facility, prevent water infiltration, deterioration and potential energy savings

Includes replacement of exterior window systems, metal siding and fascia systems and masonry restoration projects.

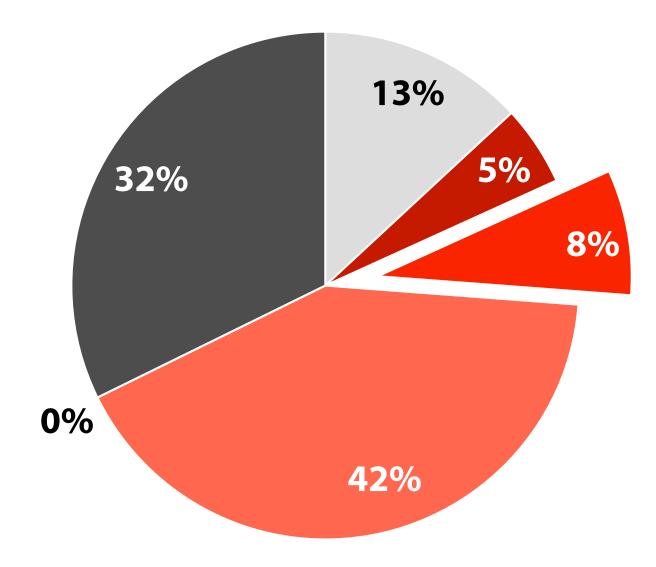
Critical Needs (1-3 years) – \$31.3M

#### **BUILDING ENVELOPE - \$1.6M**





#### **ARCHITECTURAL IMPROVEMENTS - \$2.5M**



Includes critical flooring replacement projects, restroom renovations, minor casework replacement and miscellaneous building architectural components

Critical Needs (1-3 years) – \$31.3M

#### **ARCHITECTURAL IMPROVEMENTS - \$2.5M**

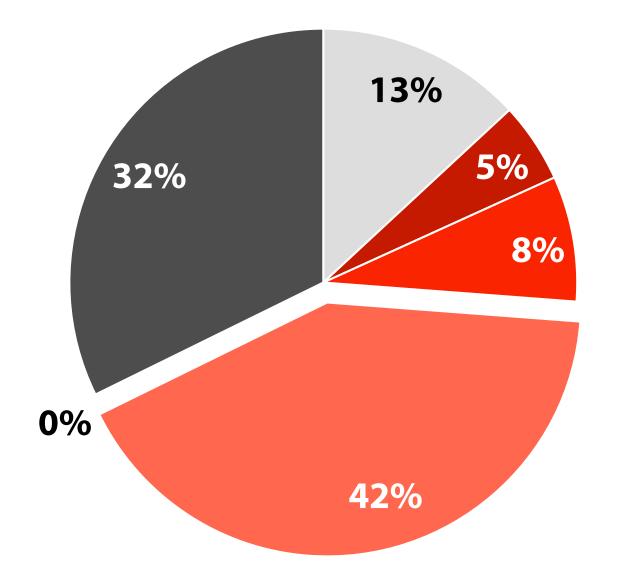




Original Restroom **Facilities** 20+ Year Old **Flooring Systems** Damaged Casework



#### **MECHANICAL SYSTEMS - \$13M**



#### Majority of mechanical equipment is currently 17 to 27 years old

Replacement of HVAC Equipment beyond useful life calculation, engineering consultant evaluation and Maintenance and Operations Department recommendations

Critical Needs (1-3 years) – \$31.3M

#### **MECHANICAL SYSTEMS - \$13M**







17 to 27 years old equipment

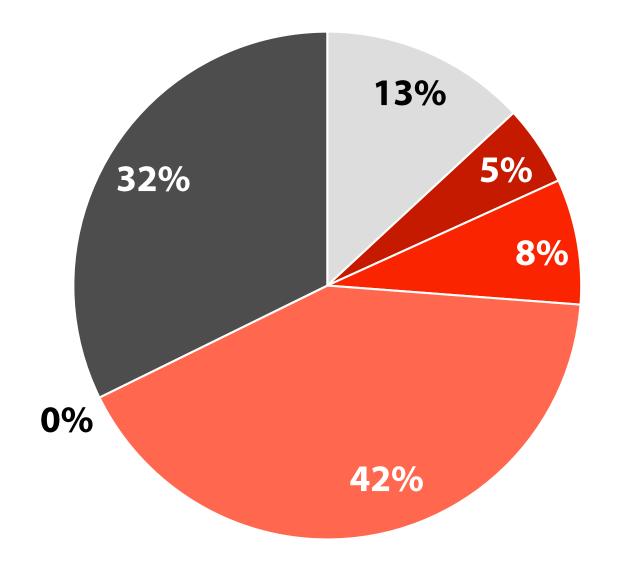
Over 275 pieces of HVAC Equipment

Update plumbing systems

District wide building management system



#### **ELECTRICAL SYSTEMS - \$0M**



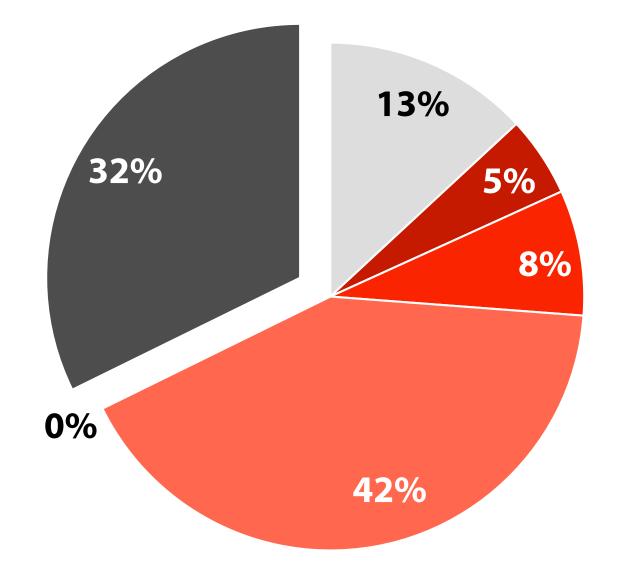
Useful life of electrical systems are longer than other systems

# The District electrical systems are good condition

LED lighting upgrades should be considered

Critical Needs (1-3 years) – \$31.3M

#### **ASPHALT AND CONCRETE REPLACEMENT - \$10.1M**



1.7M sf in asphalt paving and site concrete district wide,420K annually to maintain a20-year life cycle

Includes isolated concrete replacement, storm structure repairs, correction of drainage issues and replacement of key paved areas

Critical Needs (1-3 years) – \$31.3M

#### **ASPHALT AND CONCRETE REPLACEMENT**



ANCHOR BAY SCHOOL DISTRICT MAINTAINS NEARLY **1,700,000 SQUARE FEET** OF ASPHALT AND CONCRETE

THAT IS **MORE** SURFACE AREA

ALL THE PAVEMENT FROM MACDONALD ELEMENTARY TO MIDDLE SCHOOL SOUTH

**13 MILES OF TWO-LANE HIGHWAY!** 

#### **ASPHALT AND CONCRETE REPLACMENTE - \$10.1M**





# **Safety + Security:**

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Technology systems to control and monitor access, expand communication, improve emergency response time, enhance visibility and support incident management

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#### **SAFETY AND SECURITY - \$11.5M**



BUILDING INFRASTRUCTURE - \$7.6M

VIDEO SURVEILLANCE - \$1.2M

ACCESS CONTROL - \$1.1M

EMERGENCY ALERT - \$500K

PUBLIC ADDRESS SYSTEM - \$1.1M

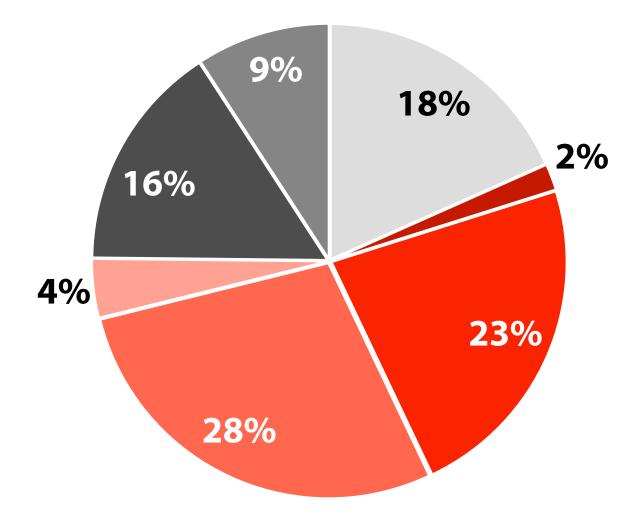
### **Near Needs:**

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Projects necessary in the next 4-6 years for the proper functioning of the building components and systems and replacement of building materials at the end of there useful life

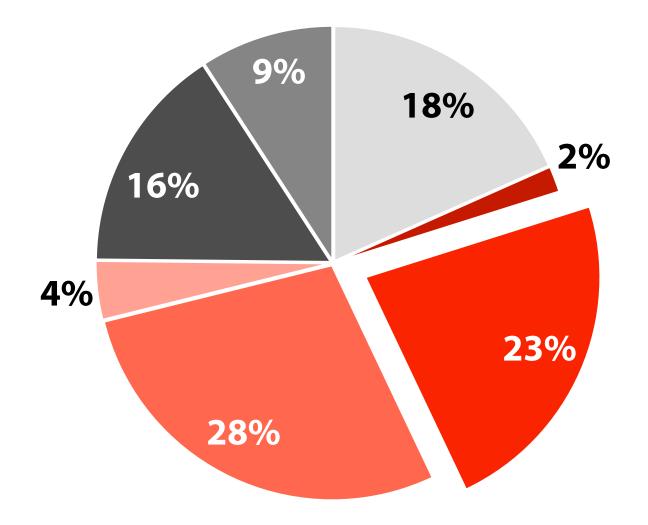
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#### NEAR NEEDS (4-6 years) - \$44.5M



- Roof Replacement \$8.2M
- Building Envelope \$800K
- Architectural Improvements \$10.2M
- Mechanical Systems \$12.6M
- Electrical Systems \$1.8M
- Site Paving \$7M
- Technology Infrastructure \$4.1

#### **ARCHITECTURAL IMPROVEMENTS - \$10.2M**

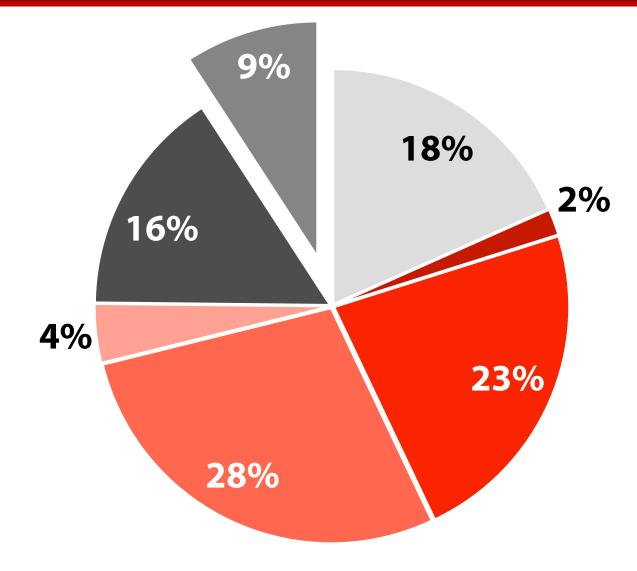


Includes critical flooring replacement projects, restroom renovations, casework replacement, and miscellaneous building architectural components

#### All District facilities will be 25+ years old and range from 25 to 72 years old

Near Needs (4-6 years) – \$44.5M

#### **TECHNOLOGY INFRASTRUCTURE - \$4.1M**



# Existing cabling originally installed in the late 90's

Estimated over 3,400 drops and 129 miles of cabling district wide

Replacement of existing technology infrastructure, cabling, switches, phone systems and clocks

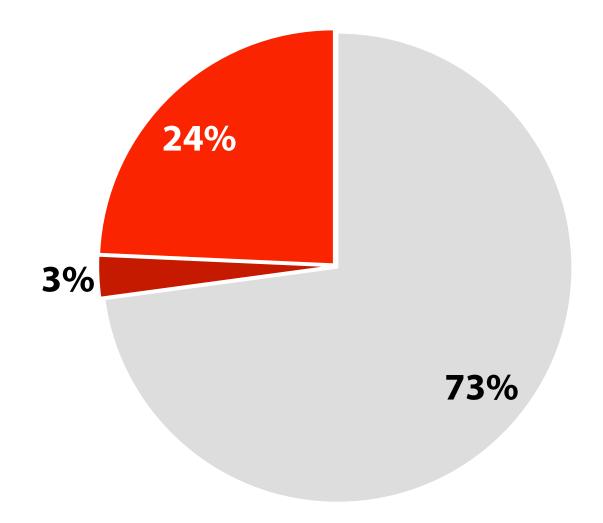
Near Needs (4-6 years) – \$44.5M

## **Future Needs:**

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Roofing, paving and building envelope projects required in the next 7-10 years to extend the useful life of the District's buildings and grounds

#### FUTURE NEEDS (7-10 years) - \$14M

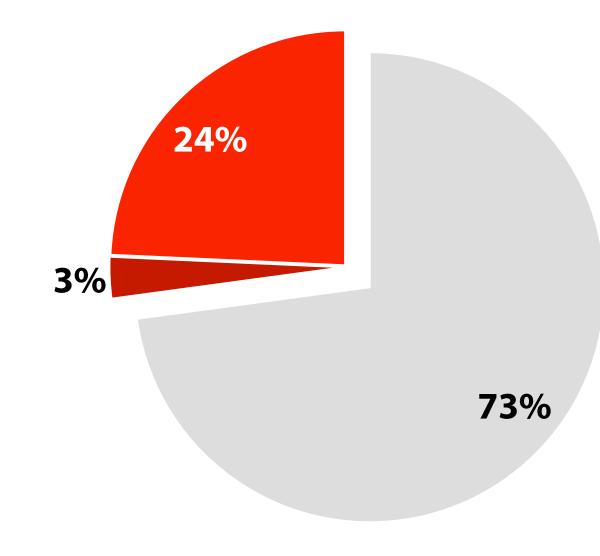


Roof Replacement - \$10.2M

Building Envelope - \$400K

Site Paving - \$3.4M

#### **ROOF REPLACMENT - \$10.2M**



The District has nearly 1.2 million square feet in roofing

Over 75% of the District's roofing was installed/replaced during the 1996, 1999 and 2003 bond programs

Future Needs (7-10 years) – \$14M

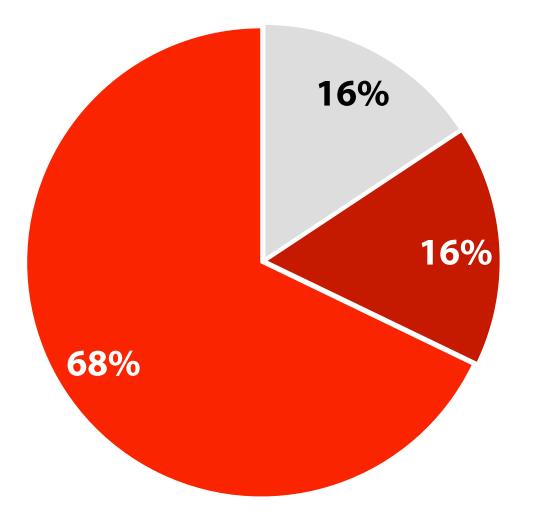
# **Energy Savings:**

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Projects that improve overall building function as well as reduce District energy costs

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#### **ENERGY SAVINGS - \$25.5M**

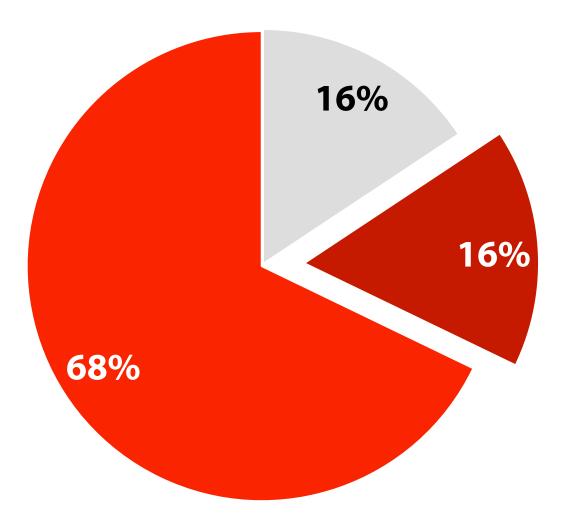


Window Replacement - \$4M

Temperature Controls - \$4.2M

Light Fixture Replacement - \$17.3M

### **TEMPERATURE CONTROLS - \$4.2M**



Existing systems use antiquated technology and are no longer supported

### District investments in the 2017 bond have been successful

Replacement of existing control systems and replace with new DDC (direct digital control) system

Energy Savings – \$25.5M

### **TEMPERATURE CONTROLS - \$4.2M**

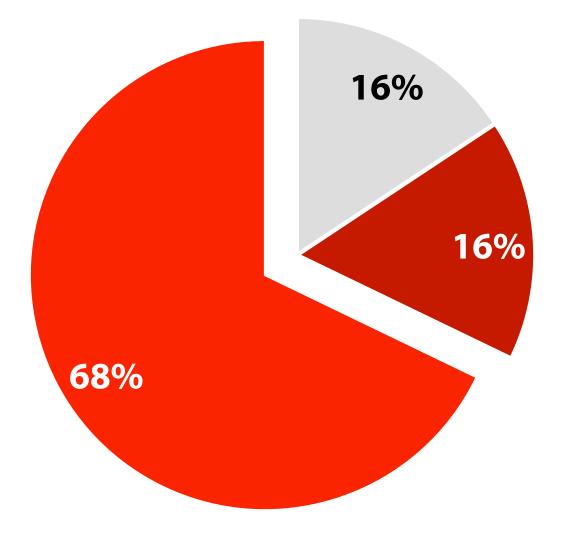


1950's

1980's



### **LIGHT FIXTURE REPLACEMENT - \$17.3M**



The District has over 17,000 light fixtures in service and could save roughly 60% in lighting related energy costs

Replacement of existing interior fluorescent and building mounted metal halide light fixtures with new efficient LED fixtures

Energy Savings – \$25.5M

# Fixtures, Furniture, + Equipment



### FIXTURES, FURNITURE & EQUIPMENT - \$2.68M



#### BUS PURCHASES - \$2.4M

- Replace aging fleet
- Right size fleet
- 21 buses over the next 6 years
- Sustainable bus replacement schedule

### CUSTODIAL EQUIPMENT - \$267K

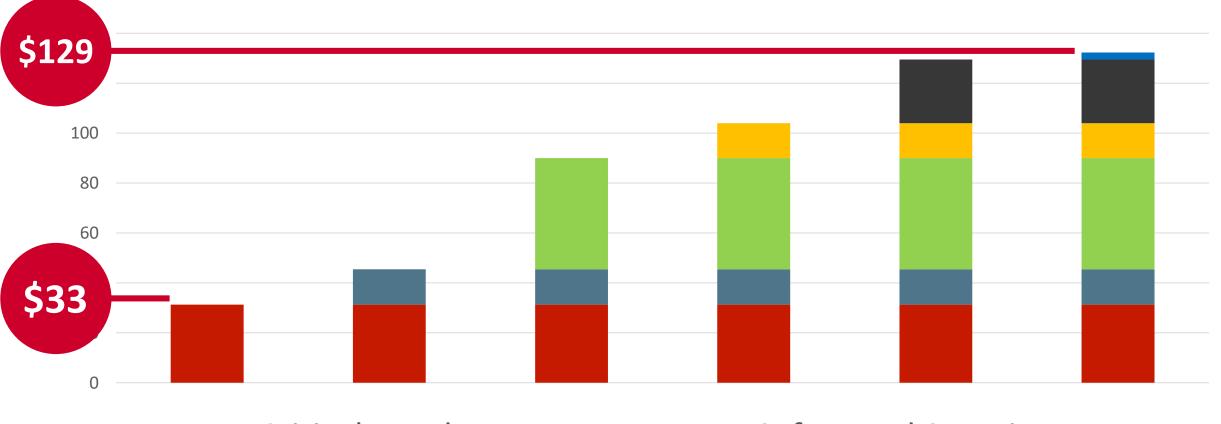


## Phase I: Infrastructure Assessment Summary

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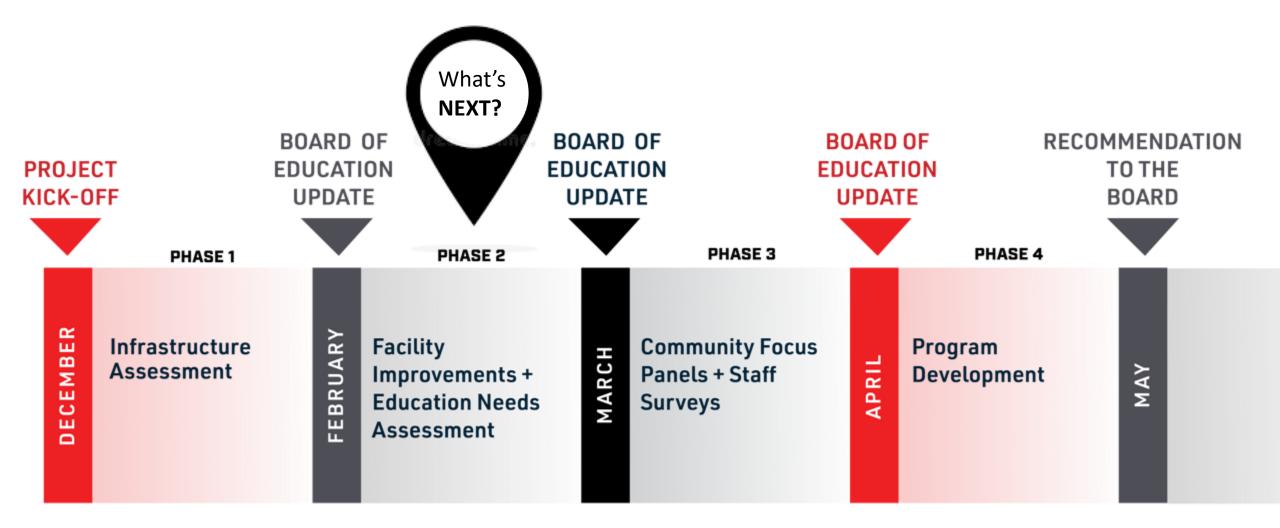
### **INFRASTRUCTURE ASSESSMENT SUMMARY**



Critical NeedsNear Needs

Safety and SecurityFuture Needs

### WHAT'S NEXT?



## Phase II: Academic and Facility Improvements



### Planning Efforts Underway

CTE Program Enhancements	Furniture Replacement
Career Pathways Renovations	Arts and Athletics Improvements
High School Reorganization	Outdoor Learning Environments
Secure Entry Additions/Reconfigurations	<b>Re-Imagined Media Centers</b>
Toilet Room Additions	Playground Upgrades
Bus Loop and Traffic Modifications	Special Education Spaces
<b>District Reconfiguration and Utilization</b>	Student Technology Devices
Classroom Technology	STEM Improvements
Storage Facilities	

### Phase III: Focus Panels and Staff and Community Survey

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### PHASE III: Focus Panels and Staff & Community Survey











IDENTIFY OPTIONS



# **Questions?**

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