

### FACILITY ASSESSMENT

board workshop

December 18, 2023

# ELEVATING LEARNING ENVIRONMENTS assessing today, shaping tomorrow's excellence



Lead with respect, trust and courage.

Ensure an equitable, collaborative and inclusive culture.

Enable all to achieve success.



**Maintain Critical Infrastructure** 



**Address Aging Facilities** 



**Address Facility Utilization** 



**Expand Pre-K Offerings** 



**Enhance Educational Opportunities** 



**Improve Auxiliary Programming** 



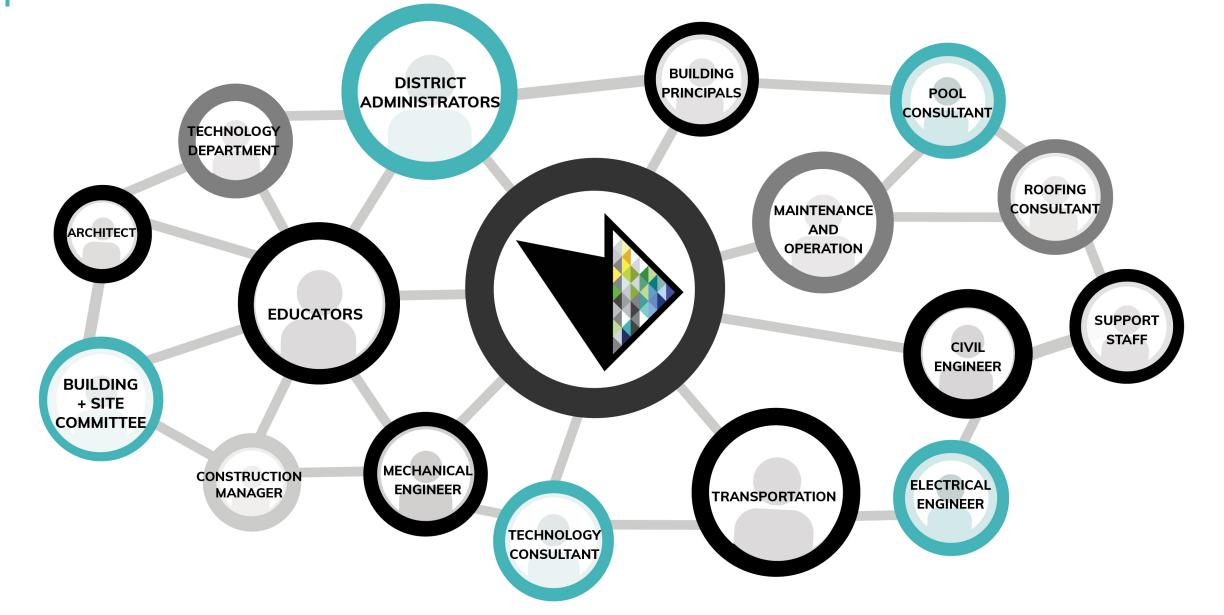
**Utilize Key Investments** 



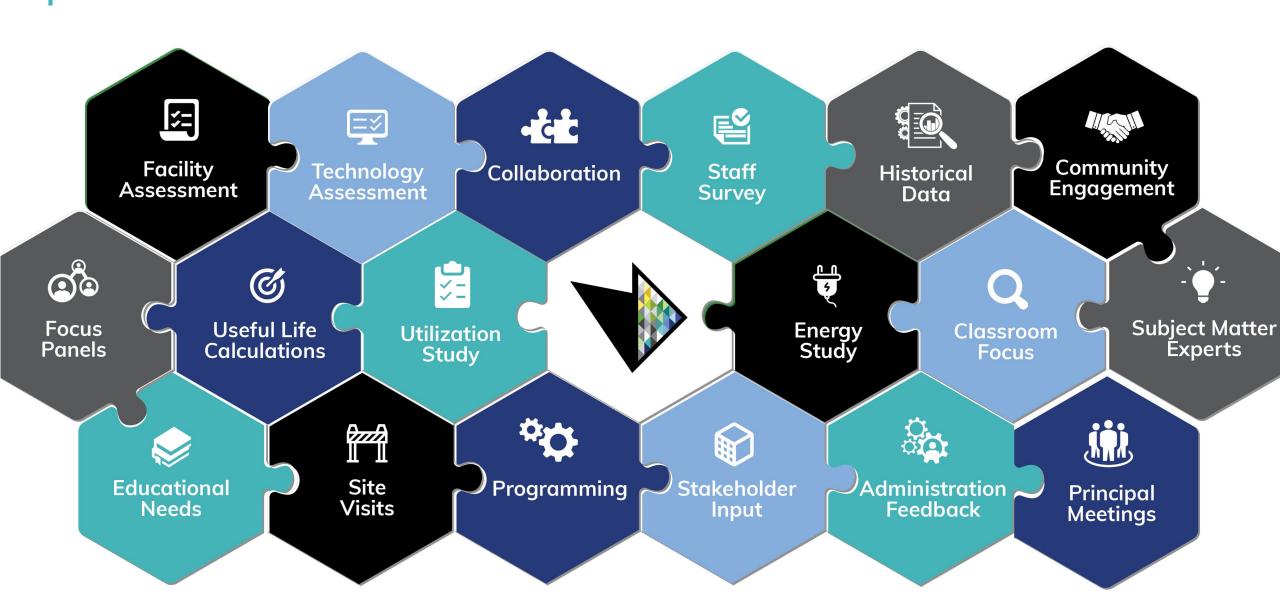
**Upgrade Arts & Athletic Facilities** 



### **PARTICIPANTS**



### **PROCESS**



### **CAPITAL INVESTMENTS**











capital improvement projects



annual facility improvement projects



annual facility improvement projects



instructional technology purchases (since 2015)

total commitments throughout the last 20 years

### 2015 BOND PROGRAM GOALS



safety & security



energy efficiency



healthy learning



vacant buildings & property



21st century classroom

### **IMPROVE SAFETY & SECURITY**



**Secure entrances** 

Access control & video surveillance

Improved traffic flow

Public address system

### INCREASING ENERGY EFFICIENCY



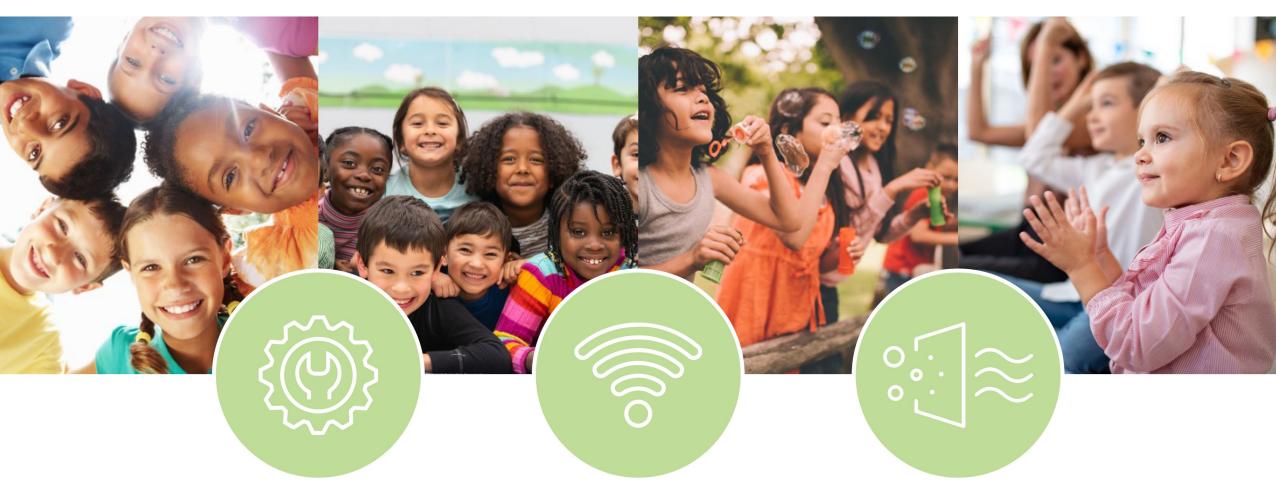
replace inefficient equipment/systems

window replacement

energy star ratings

utility cost

### PROVIDE HEALTHY LEARNING ENVIRONMENTS



mechanical equipment replacement

building management system

improved indoor air quality

### **ADDRESS VACANT BUILDINGS & PROPERTY**



property demolition



addressing aging facilities

### 21ST CENTURY LEARNING ENVIRONMENTS



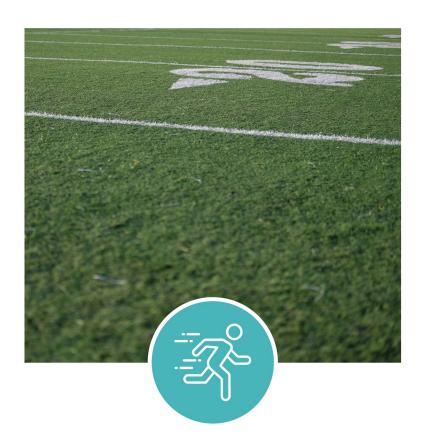






technology infrastructure • classroom technology media centers • makerspaces

### ADDITIONAL IMPROVEMENTS



athletic improvements



site improvements



bus purchases

### FISCALLY RESPONSIBLE

Consistent contingency & bid savings

Additional earned interest

12% savings program wide

\$14M in additional projects completed



### **ADDITIONAL PROJECTS**



STEM-ification of Central Park ES \$2M+ in Additional Mech. Equipment 65+ Restrooms Renovated Additional Asphalt & Concrete Building Envelope Improvements Athletic Upgrades

Door & Hardware Replacement

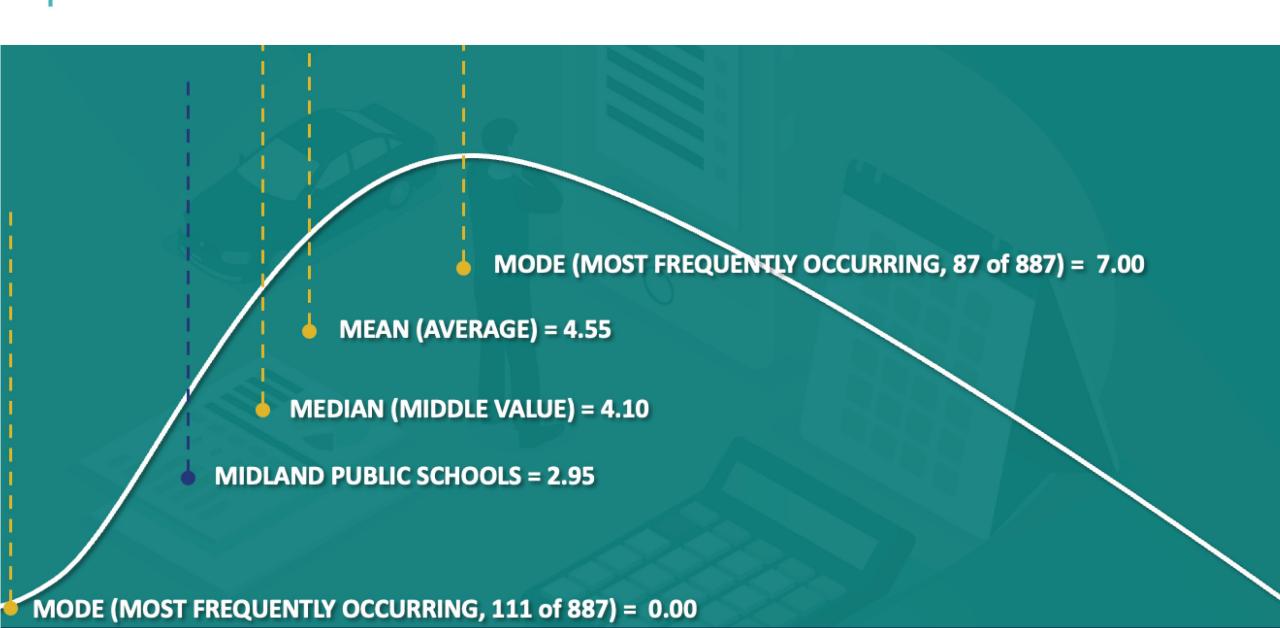
### MILLAGE RATES • COUNTY COMPARISON

| SCHOOL DISTRICT        | TOTAL DEBT (MILLS) |
|------------------------|--------------------|
| Bullock Creek          | 7.00               |
| Meridian               | 7.00               |
| MIDLAND PUBLIC SCHOOLS | 2.95               |
| Coleman                | 2.85               |

### MILLAGE RATES • SIMILAR DISTRICT COMPARISON

| SCHOOL DISTRICT        | TOTAL DEBT (MILLS) |
|------------------------|--------------------|
| Chippewa Valley        | 8.64               |
| Rockford               | 7.00               |
| Portage                | 6.85               |
| Novi                   | 6.50               |
| E. Lansing             | 6.30               |
| Grand Blanc            | 6.30               |
| Brighton               | 6.19               |
| W. Bloomfield          | 6.15               |
| Troy                   | 6.10               |
| Ann Arbor              | 4.10               |
| Birmingham             | 3.80               |
| Grosse Pointe          | 3.14               |
| Traverse City          | 3.10               |
| MIDLAND PUBLIC SCHOOLS | 2.95               |
| Bloomfield             | 2.75               |

#### MILLAGE RATES • STATE-WIDE DATA







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**Address Facility Utilization** 



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**Enhance Educational Opportunities** 



**Improve Auxiliary Programming** 



**Utilize Key Investments** 



**Upgrade Arts & Athletic Facilities** 



**ACADEMIC IMPROVEMENTS** 

**ARTS, ATHLETICS & PLAY** 

**TECHNOLOGY EQUIPMENT** 

**FURNITURE REPLACEMENT** 

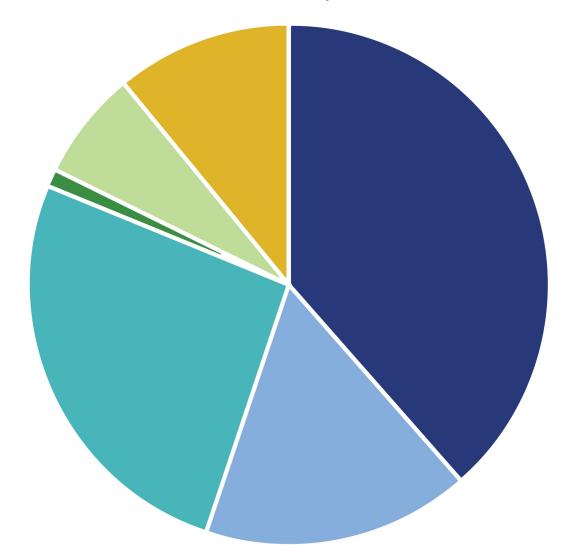
**BUS PURCHASES** 

MIDDLE SCHOOLS

ELEMENTARY & PRE-PRIMARY

## FACILITY ASSESSMENT

CRITICAL NEEDS: \$45.7M





Interior Renovations \$7.6M

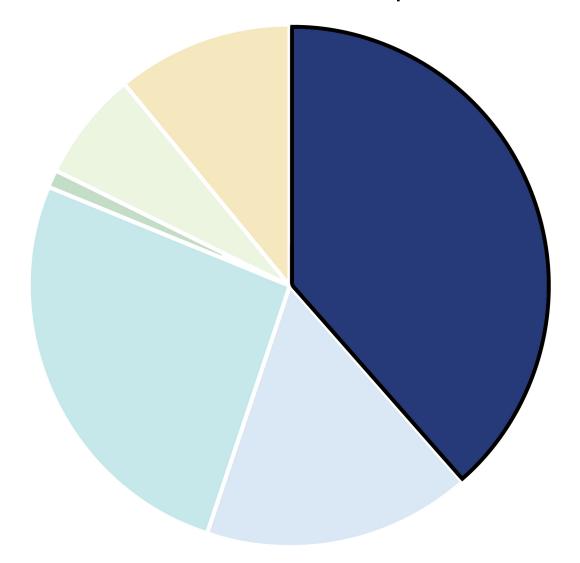
Mechanical Upgrades \$11.9M

Electrical Upgrades \$500K

Site Improvements \$3.1M

**Tech Infrastructure** \$5.0M

**BUILDING ENVELOPE \$17.6M** 



650K SF of membrane replacement

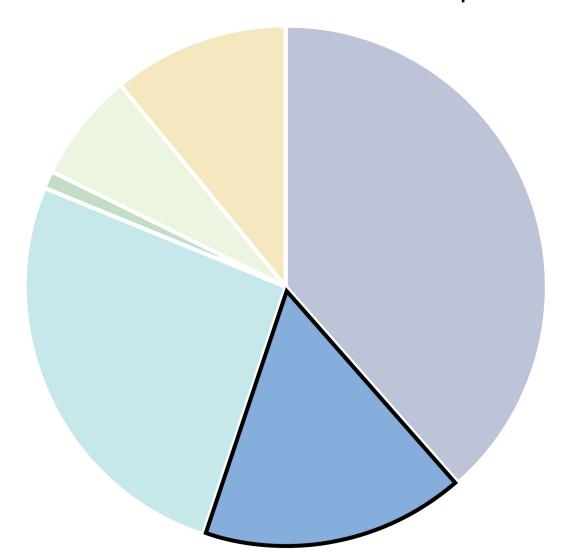
\$/SF includes membrane replacement & selective insulation replacement

Includes cladding existing soffits & fascia with metal panels

Add control joints & restore masonry at Northeast MS

Roofing is 38% of the critical needs infrastructure - by 2026, 55% of district roofs will be 20+ years old and out of the warranty period

**INTERIOR RENOVATIONS \$7.6M** 



Replace original interior doors

Upgrade select glazing to impact resistant

Address groundwater issues

Replace pool equipment at NMS

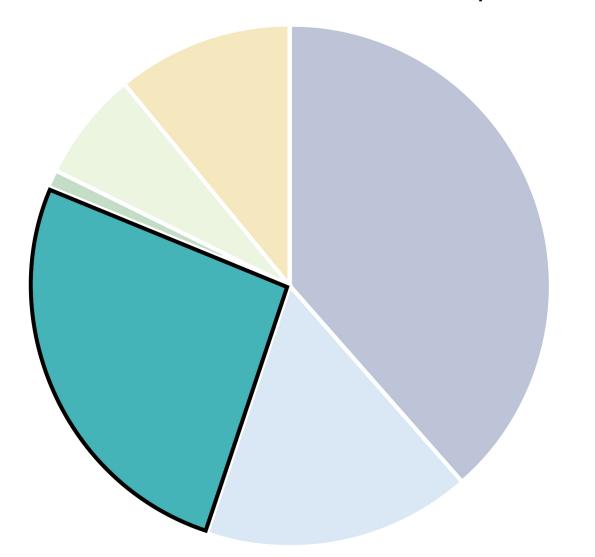
Renovate original restrooms

Replace 20+ year-old flooring

Remodel middle school locker rooms

Includes budget to replace exterior glass & interior corridor glass to impact resistant glass

MECHANICAL UPGRADES \$11.9M



Includes replacing chiller at Woodcrest Elementary

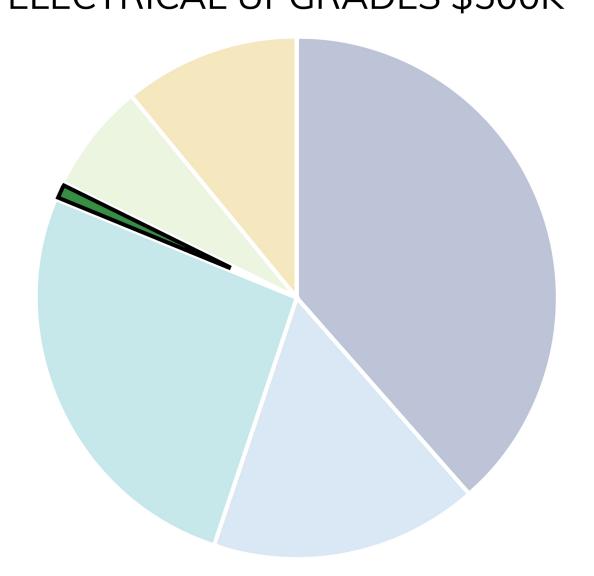
Equipment replacement at Jefferson, Dow & Midland HS

Add air conditioning to Midland High gymnasiums

Miscellaneous improvement district-wide

More than 225 new mechanical units & 18 boilers replaced district-wide in 2015 Bond Program

## INFRASTRUCTURE ELECTRICAL UPGRADES \$500K

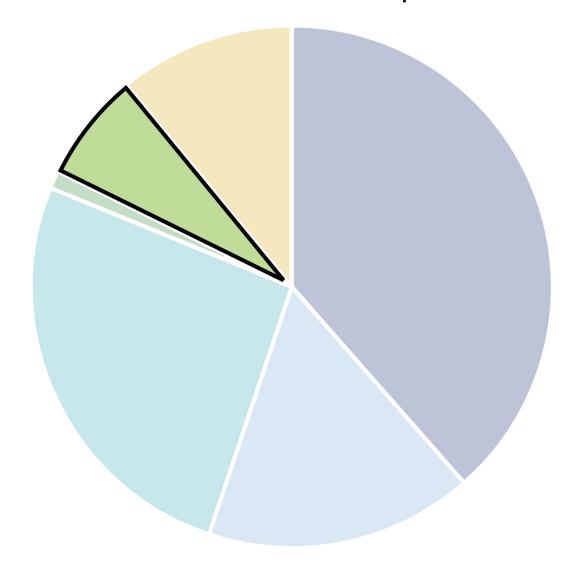


Includes service upgrade to Northeast MS

Includes additional power requirements at Adams Elementary

MPS upgraded the service at 7 out of 11 school facilities & nearly every interior & exterior light fixture has been changed or converted to LED

# INFRASTRUCTURE SITE IMPROVEMENTS \$3.1M



Includes full-depth asphalt replacement in select areas

Replace select areas of failed concrete walks, curbs & gutters

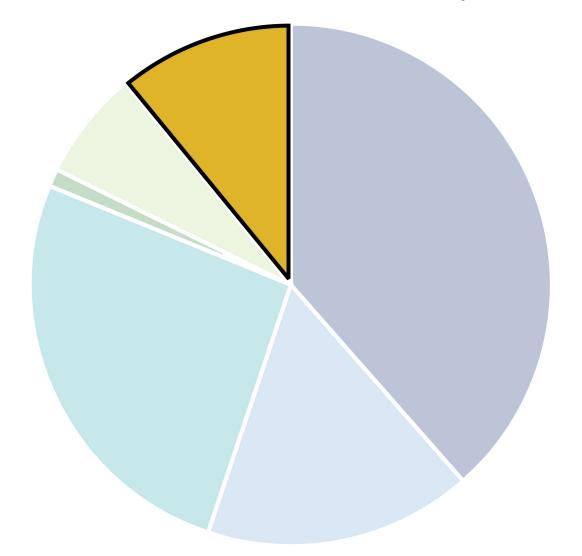
Adams bus loop extension

Woodcrest parking lot extension

Improve site drainage district-wide

Adams is the only elementary school that did not receive a designated bus loop. Woodcrest has 20+ less parking spots than all other ES

TECH INFRASTRUCTURE \$5.0M



**Expand access control** 

Add emergency alert system

Replace clock system district-wide

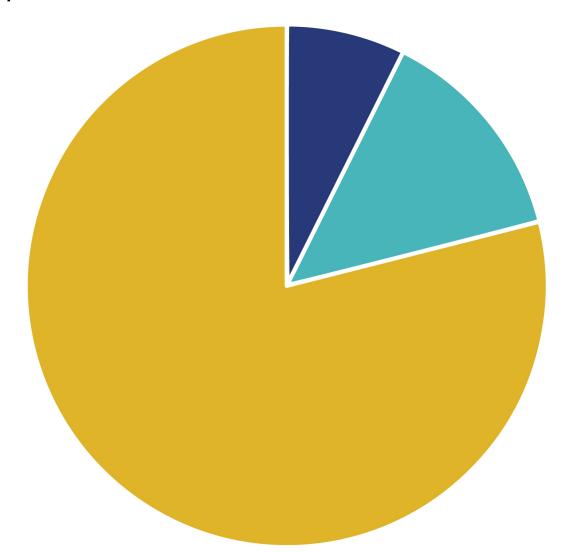
Replace PA speakers district-wide

Emergency alert system used to expand communication, improve emergency response time, enhance visibility & support incident management

## ACADEMIC IMPROVEMENTS

### **ACADEMIC IMPROVEMENTS**

\$19.7M



Elementary Schools \$1.4M

Middle Schools \$2.6M

High Schools \$15.7M

### **ELEMENTARY SCHOOLS \$1.4M**

Remodel student support & intervention spaces

Replace miscellaneous casework

Renovate kindergarten work rooms

Install additional whiteboards



### MIDDLE SCHOOLS \$2.6M

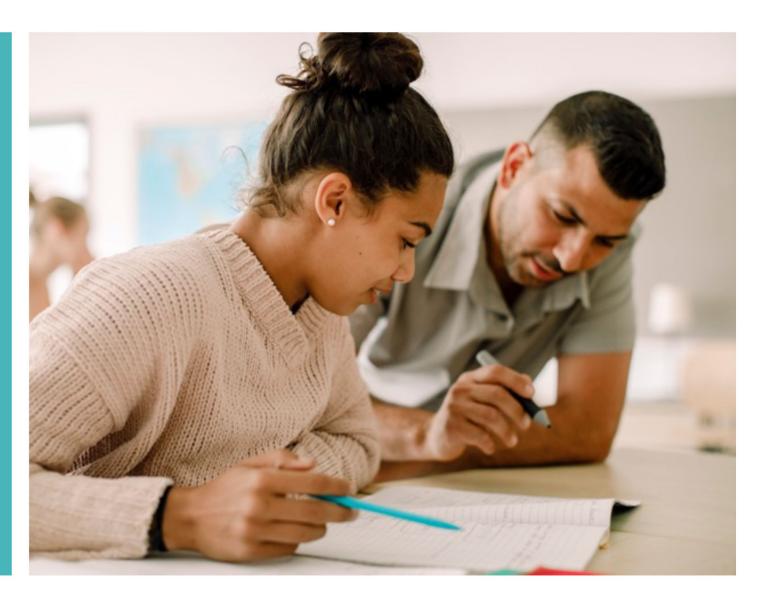
#### **JEFFERSON & NORTHEAST**

Remodel student support & intervention spaces

Emerging programs

CTE feeder programming

Renovate life skills space (home ec)



### **HIGH SCHOOLS \$15.7M**

#### **DOW & MIDLAND**

Create space for existing & emerging programming

Renovate exploratorium (from the 90's)

**CTE** renovations

Renovate classrooms

Renovate life skills space (home ec)



## ARTS, ATHLETICS & PLAY

**ARTS, ATHLETICS & PLAY** 

\$62.3M

**Arts Improvements** \$9.9M

**Playground Upgrades** \$6.6M

**Midland Community Stadium** \$6.6M

**High School Athletics** \$35.9M

Middle School Athletics \$3.3M

## ARTS, ATHLETICS & PLAY

#### **ARTS IMPROVEMENTS \$9.9M**



Art, band & choir renovations

Purchase band equipment



Central Auditorium improvements

Band tower & storage improvements

## **ARTS, ATHLETICS & PLAY**

PLAYGROUND UPGRADES \$6.6M



Upgrade playground equipment

Provide ADAaccessible features



Add new playground resurfacing

Improve site drainage

## MIDLAND COMMUNITY STADIUM • \$6.6M



## **DOW HIGH SCHOOL ATHLETICS** • \$23.1M



concession & storage building

new band tower & press box turf baseball & softball fields

additional parking & interior improvements

## MIDLAND HIGH SCHOOL ATHLETICS • \$12.8M



turf baseball & softball fields

misc. interior & site improvements

locker room renovations

## MIDDLE SCHOOL ATHLETICS • \$3.3M



# TECHNOLOGY EQUIPMENT

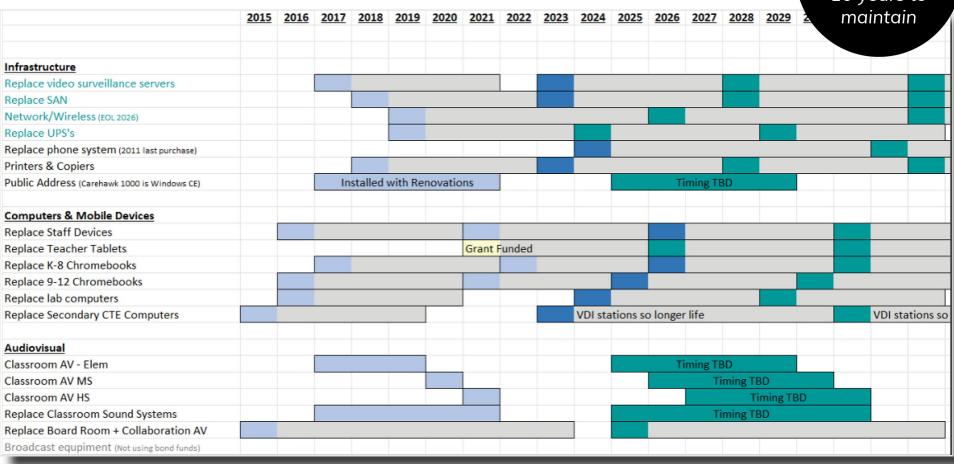
## TECHNOLOGY EQUIPMENT

\$20.8M over the next 10 years to maintain

2015 Bond Series 1 + 2

2015 Bond Series 3

**Future Needs** 



## FURNITURE REPLACEMENT

#### **FURNITURE REPLACEMENT**

| DESCRIPTION      | VALUE       |             |  |
|------------------|-------------|-------------|--|
| Square Footage   | 896,650     |             |  |
| Cost / SF        | \$5.00      | \$10.00     |  |
| Potential Budget | \$4,483,250 | \$8,966,500 |  |

quantity, quality & mobility









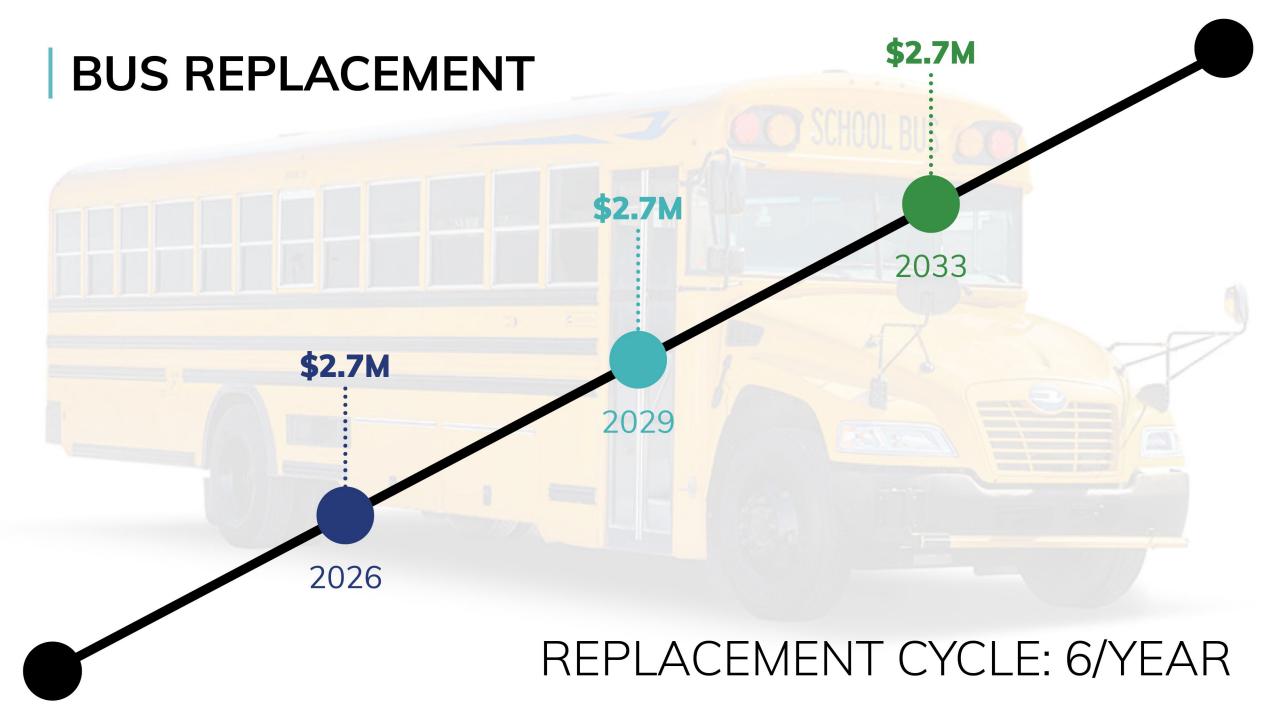
most requested item

curriculum driven request

desire for mobile & collaborative

impact on staff & students

## BUS REPLACEMENT







discussion topics

MIDDLE SCHOOL

Northeast Middle School built in 1950

Strategic past investments

21st century learning environments

**Utilization study** 

**Equity between buildings** 

## JEFFERSON & NORTHEAST MIDDLE SCHOOL

#### Maintain Status Quo



Defer major decisions & invest in critical infrastructure to maintain current MPS standards

Critical Infrastructure

## Complete Major Renovations



Extend useful life of current facilities for another generation of MPS students & families

Critical Infrastructure
Academic Improvements
Athletic Improvements

Arts Improvements

## **Build New Middle School**



Create model middle school facilities consistent with programming & improvements made in the 2015 bond

Replace Northeast

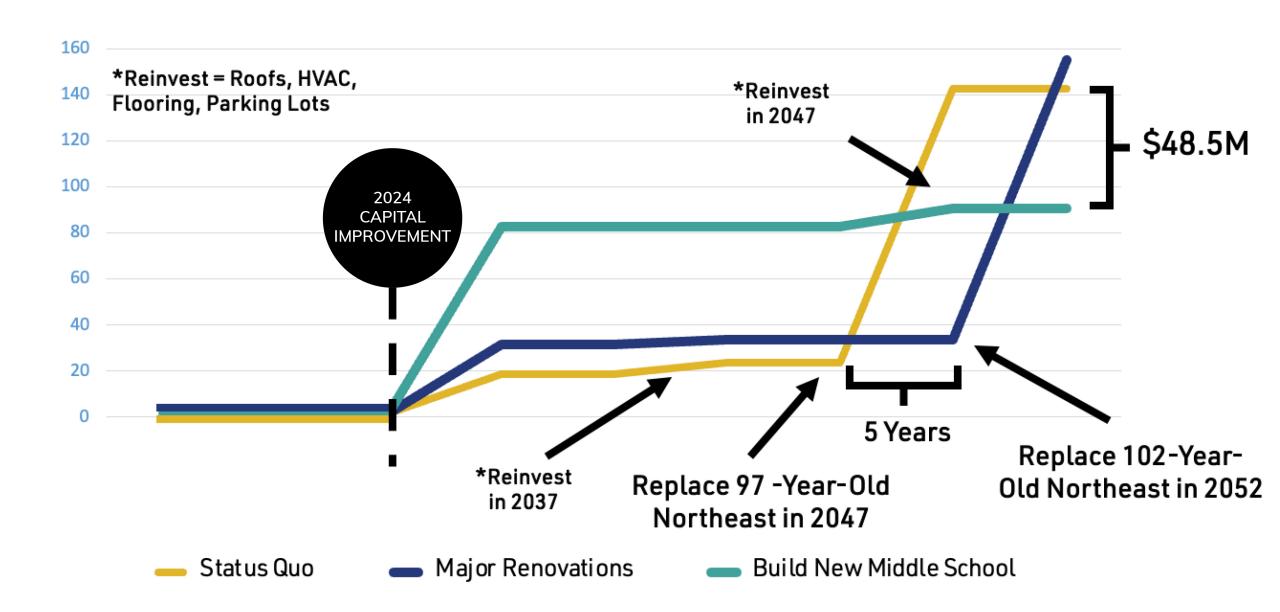
Enhanced Academic Improvements, Athletic & Infrastructure Improvements at Jefferson

\$6.2M

\$28.1M

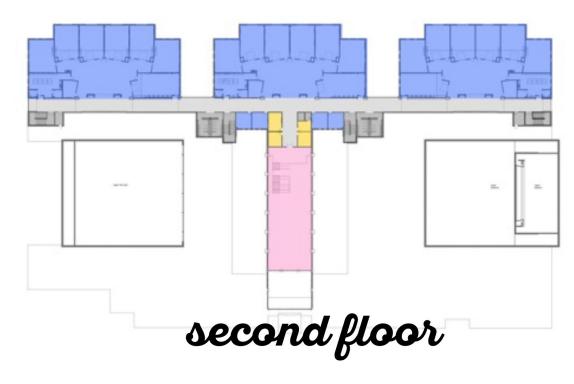
\$79.8M

#### MIDDLE SCHOOL DECISION



#### **BUILD NEW MS & RENOVATE EXISTING**









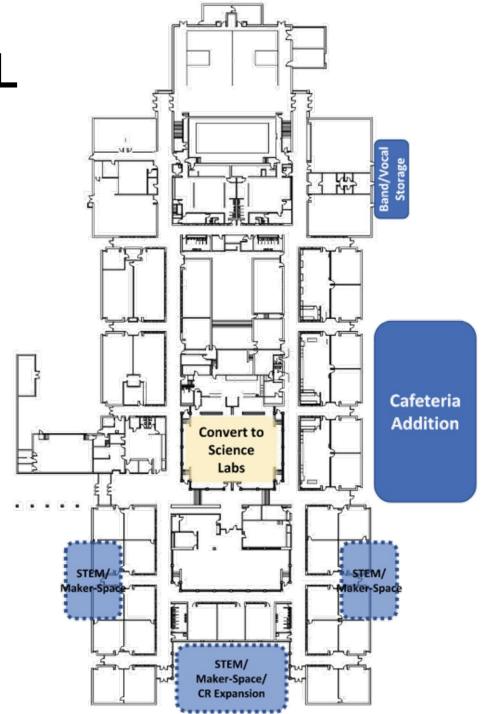




**BUILD NEW MIDDLE SCHOOL** 

& RENOVATE JEFFERSON









# discussion topics

**ELEMENTARY & PRE-PRIMARY** 

Carpenter pre-primary built in 1926

Trends in early childhood

**Current elementary utilization** 

Population growth to the north

Space needs (auxiliary, etc.)

Neighborhood v. centralized pre-prim.

Over / under utilization opportunities

#### **POSSIBLE SCENARIO**

#### **NEIGHBORHOOD**

#### Build Additions on Existing Elementary



Take Carpenter Pre-Primary off-line & build classroom additions to additional space to all existing elementary facilities

#### **CENTRALIZED**

#### **New Pre-Primary**



Take Carpenter Pre-Primary off-line & build new preprimary on existing district property

#### **NEIGHBORHOOD**

#### Build New Neighborhood Elementary



Demo Carpenter pre-primary & build new 450-600 student elementary facility on new property located north of M-10 in Siebert attendance area





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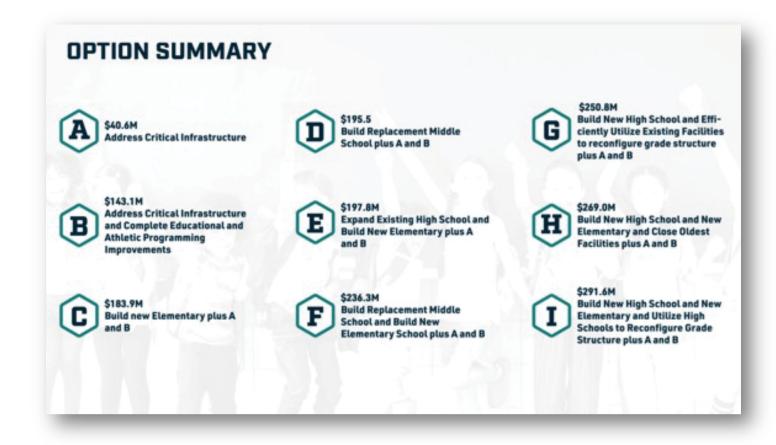
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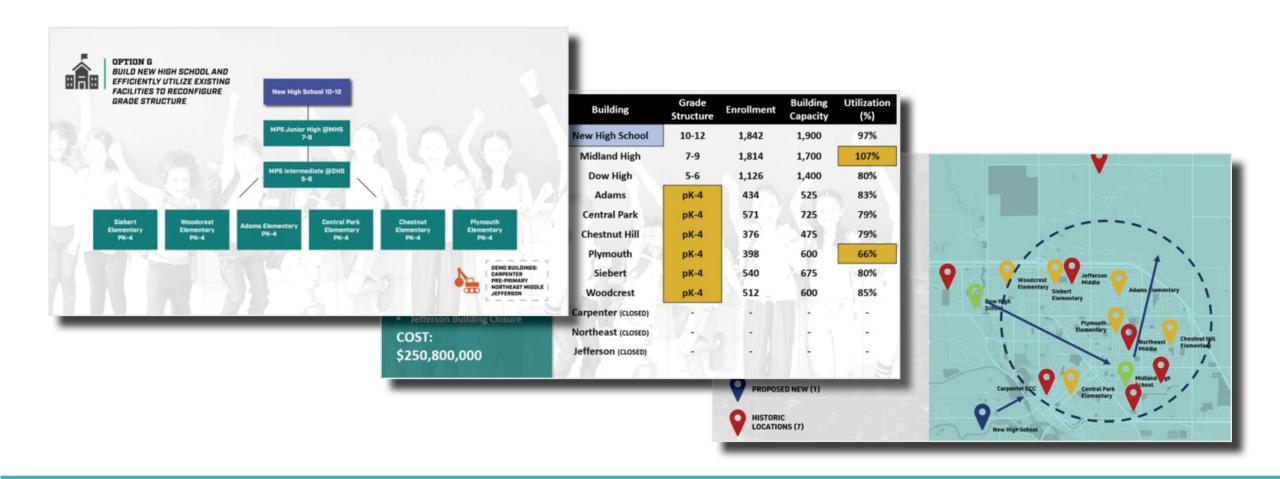
**Upgrade Arts & Athletic Facilities** 

# ELEVATING LEARNING ENVIRONMENTS assessing today, shaping tomorrow's excellence

## 9+ SCENARIOS REVIEWED & DISCUSSED



## **IN-DEPTH EVALUATION**



utilization study • grade configuration • district configuration • cost models



# BUILD NEW ELEMENTARY & REPLACE MIDDLE SCHOOL

### **SCENARIO 1**

#### BUILD NEW ELEMENTARY & REPLACE MIDDLE SCHOOL

Siebert Elem. **PK-5**  Woodcrest Elem. **PK-5** 

New Elem. **PK-5** 

Adams Elem. **PK-5**  Central Park Elem.

PK-5

Chestnut Elem. **PK-5** 

Elem. **PK-5** 

Plymouth

Jefferson Middle School **6-8**  New Middle School

6-8

Dow High School **9-12**  Midland High School **9-12**  Buildings to Demo or Repurpose:

Carpenter Pre-Primary

Northeast Middle School

#### SCENARIO 1 UTILIZATION STUDY

before

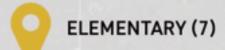
| Building      | Grade Structure | Enrollment | Building<br>Capacity | Utilization (%) |
|---------------|-----------------|------------|----------------------|-----------------|
| Midland High  | 9-12            | 1,189      | 1,700                | 70%             |
| Dow High      | 9-12            | 1,300      | 1,400                | 93%             |
| Northeast     | 6-8             | 859        | 1,125                | 76%             |
| Jefferson     | 6-8             | 903        | 900                  | 100%            |
| Adams         | K-5             | 479        | 525                  | 91%             |
| Central Park  | K-5             | 650        | 725                  | 90%             |
| Chestnut Hill | K-5             | 418        | 475                  | 88%             |
| Plymouth      | K-5             | 438        | 600                  | 73%             |
| Siebert       | K-5             | 608        | 675                  | 90%             |
| Woodcrest     | K-5             | 589        | 600                  | 98%             |
| Carpenter     | pre-K           | 130        | -                    | -               |

| BUILDING           | GRADE STRUCTURE | ENROLLMENT | BUILDING CAPACITY | UTILIZATION (%) |
|--------------------|-----------------|------------|-------------------|-----------------|
| New Elementary     | PK-5            | 423        | 450               | 94%             |
| Adams              | PK-5            | 406        | 525               | 77%             |
| Central Park       | PK-5            | 666        | 725               | 92%             |
| Chestnut Hill      | PK-5            | 391        | 475               | 82%             |
| Plymouth           | PK-5            | 461        | 600               | 77%             |
| Siebert            | PK-5            | 510        | 675               | 76%             |
| Woodcrest          | PK-5            | 505        | 600               | 84%             |
| Carpenter (CLOSED) | -               | -          | -                 | -               |

alter

facility utilization aligned to meet district goals

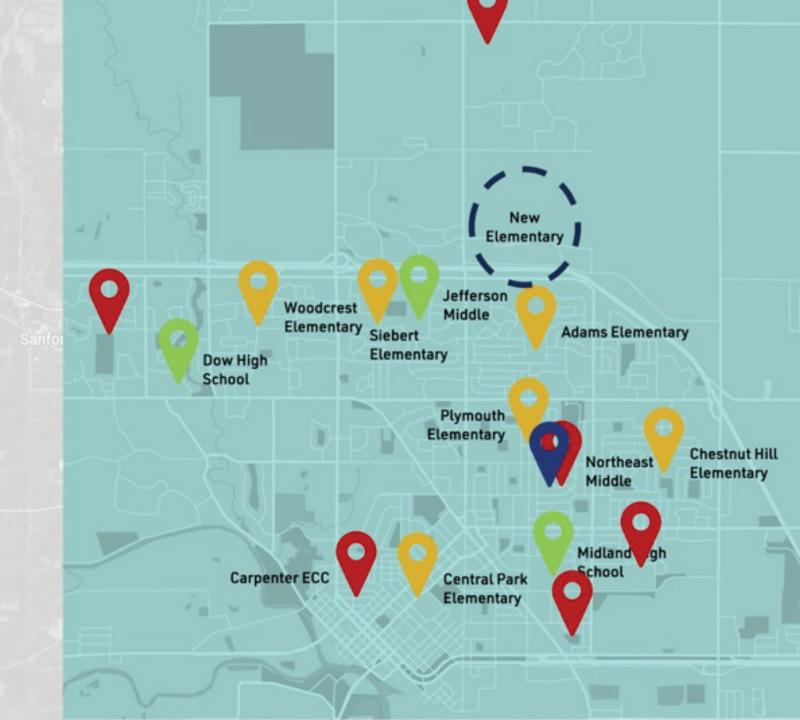
## SCENARIO 1



SECONDARY (4)

PROPOSED NEW (2)

HISTORIC LOCATIONS (6)





# BUILD COMMUNITY HIGH SCHOOL

#### **SCENARIO 2**

#### BUILD COMMUNITY HIGH SCHOOL

New High School **10-12** 

MPS Junior High @MHS **7-9** 

MPS Intermediate @DHS **5-6** 

Buildings to Demo or Repurpose:

Carpenter Pre-Primary

Northeast MS

Jefferson MS

Siebert Elem.

**PK-4** 

Woodcrest Elem.

PK-4

Adams Elem.

PK-4

Central Park Elem.

**PK-4** 

Chestnut Elem.

**PK-4** 

Plymouth Elem.

**PK-4** 

#### SCENARIO 2 UTILIZATION STUDY

before

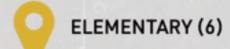
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| Adams         | K-5             | 479        | 525                  | 91%             |
| Central Park  | K-5             | 650        | 725                  | 90%             |
| Chestnut Hill | K-5             | 418        | 475                  | 88%             |
| Plymouth      | K-5             | 438        | 600                  | 73%             |
| Siebert       | K-5             | 608        | 675                  | 90%             |
| Woodcrest     | K-5             | 589        | 600                  | 98%             |
| Carpenter     | pre-K           | 130        | -                    | -               |

| BUILDING   | GRADE STRUCTURE | ENROLLMENT | BUILDING CAPACITY | UTILIZATION (%) |
|--|-----------------|------------|-------------------|-----------------|
| New High School  | 10-12           | 1,842      | 1,900             | 97%             |
| Midland High   | 7-9             | 1,814      | 1,850             | 98%             |
| Dow High   | 5-6             | 1,126      | 1,400             | 80%             |
| Adams  | PK-4            | 434        | 525               | 83%             |
| Central Park   | PK-4            | 571        | 725               | 79%             |
| Chestnut Hill  | PK-4            | 376        | 475               | 79%             |
| Plymouth   | PK-4            | 398        | 600               | 66%             |
| Siebert  | PK-4            | 540        | 675               | 80%             |
| Woodcrest  | PK-4            | 512        | 600               | 85%             |
| Carpenter (CLOSED)   Northeast (CLOSED)   Jefferson (CLOSED) |                 |            |                   |                 |

alter

facility utilization aligned to meet district goals

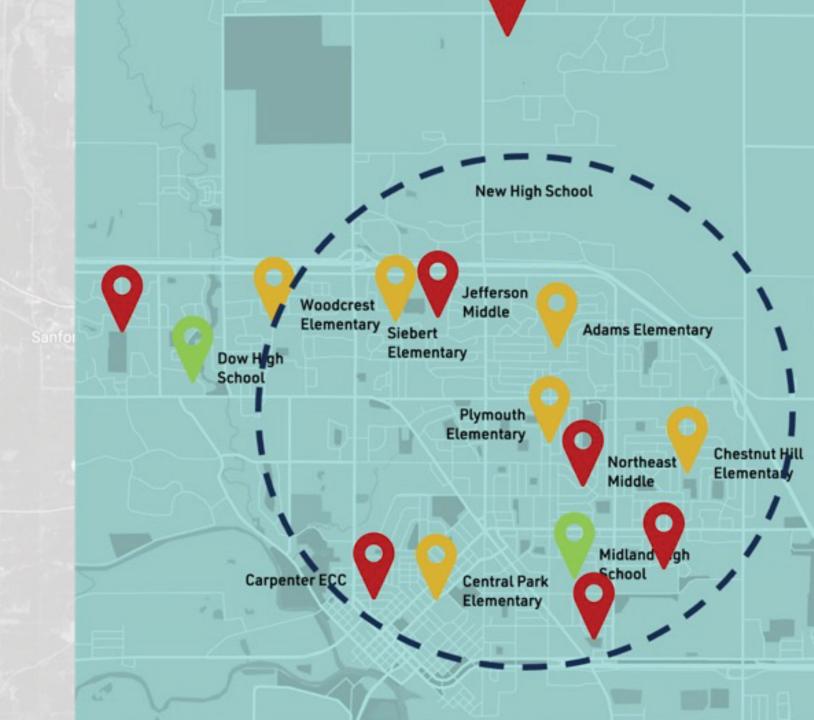
## SCENARIO 2



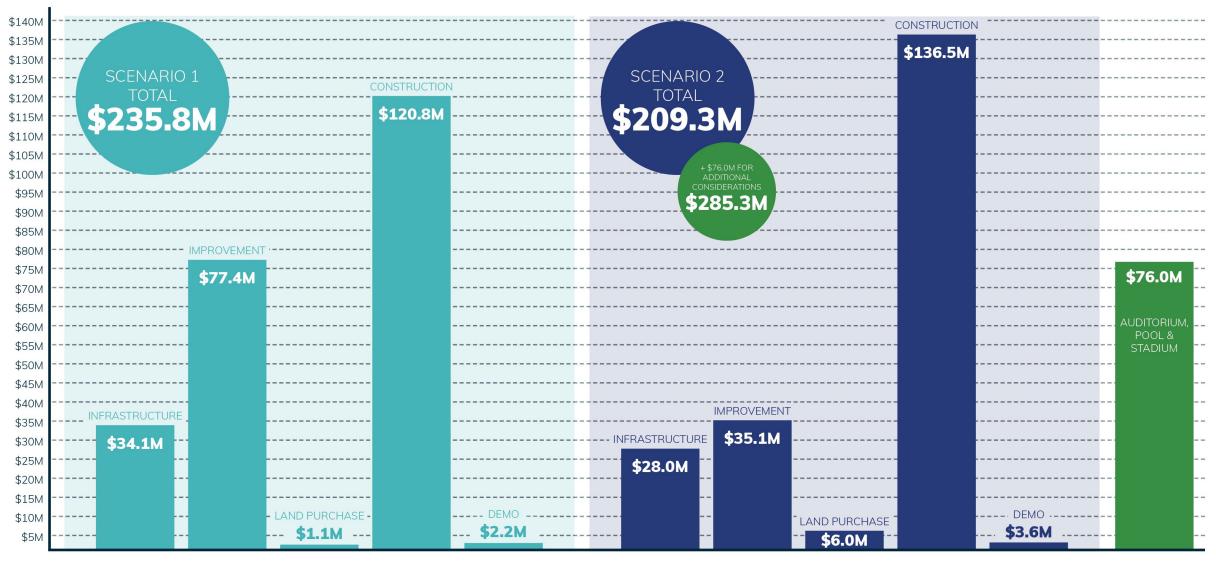
SECONDARY (3)

PROPOSED NEW (1)

HISTORIC LOCATIONS (7)



#### **BUDGET SUMMARY**



SCENARIO 1
BUILD NEW ELEMENTARY & REPLACE MIDDLE SCHOOL

SCENARIO 2
BUILD COMMUNITY HIGH SCHOOL



## **ADDITIONAL CONSIDERATIONS**



1,000-seat auditorium



12-lane competition swimming pool



new stadium complex



dedicated robotics space



### **PROVEN PROCESS**







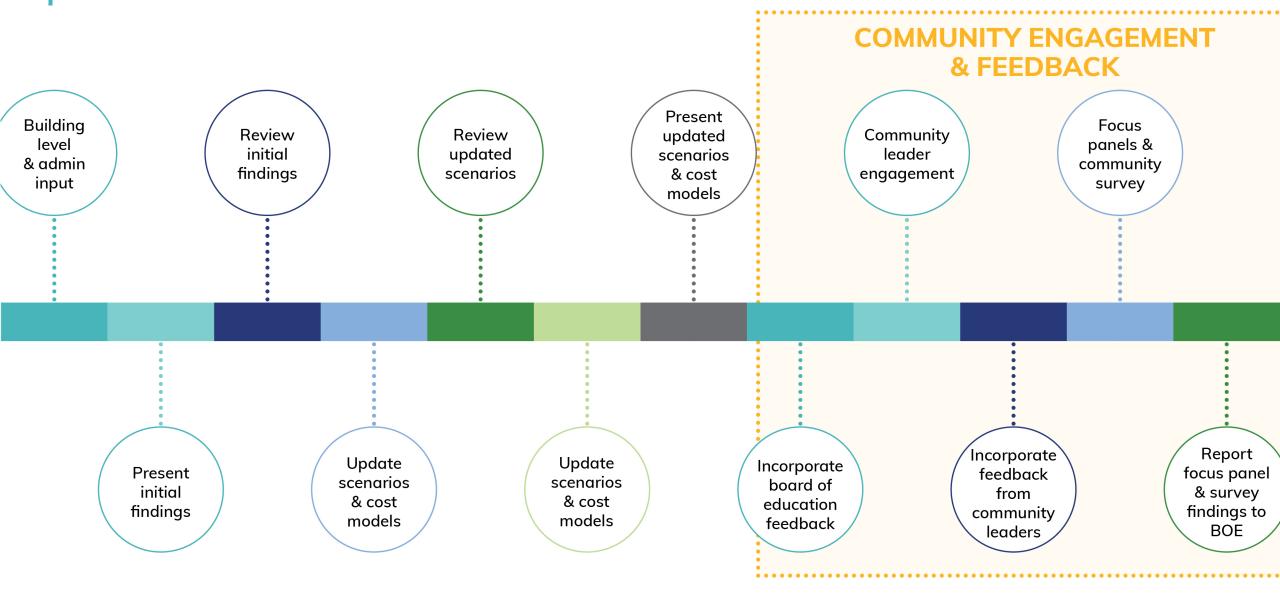


board of education feedback

community leader feedback

focus panels student, staff& communitysurveys

#### **NEXT STEPS**





# QUESTIONS? open discussion



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