







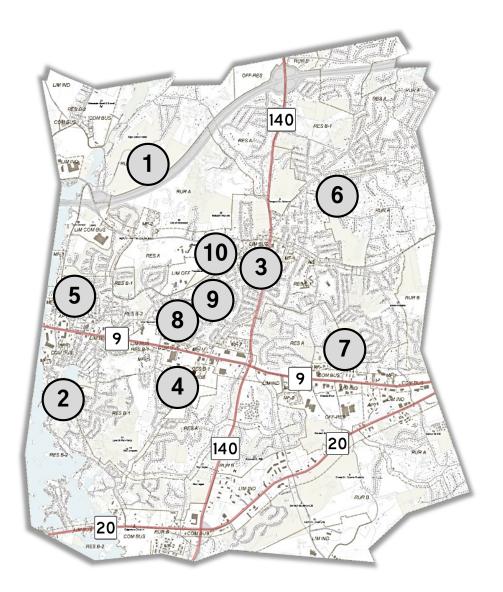






PRE-K THROUGH 12

CAPITAL INVESTMENT AND ASSESSMENT STUDY



- 1 SHREWSBURY HIGH SCHOOL
- 2 CALVIN COOLIDGE SCHOOL
- 3 WALTER J. PATON SCHOOL
- 4 MAJOR HOWARD BEAL SCHOOL
- 5 PARKER ROAD PRESCHOOL
- 6 SPRING STREET SCHOOL
- 7 FLORAL STREET SCHOOL
- 8 SHERWOOD MIDDLE SCHOOL
- 9 OAK MIDDLE SCHOOL
- 10 SPS ADMINISTRATION

PROJECTED ENROLLMENT / SPACE NEEDS

- Calculation methodology based on:
 - Enrollment Forecasts
 - 2021/2031 McKibben Report
 - MSBA Space Summary Template
 - Pro-rated based on:
 - SPS classroom enrollment policy
 - SPS educational plan & pedagogy
 - Exclusion of portable/modular classrooms for all applicable options

	ENROLLMENT						
	2022- 2023	2031- 2032	10-YR DELTA				
PRE-K							
PARKER ROAD	203	242	39				
ELEMENTARY (K-4)	1,975	1,971	(4)				
MAJOR HOWARD BEAL	609	548	(61)				
CALVIN COOLIDGE	247	292	45				
FLORAL STREET	520	510	(10)				
SPRING STREET	308	303	(5)				
WALTER J PATON	291	318	27				
MIDDLE SCHOOL (5-8)	1,892	1,675	(217)				
SHERWOOD (5-6)	948	820	(128)				
OAK (7-8)	944	855	(89)				
HIGH SCHOOL (9-12)							
SHREWSBURY HIGH	1,821	1,749	(72)				

DESIGN CAPACITY

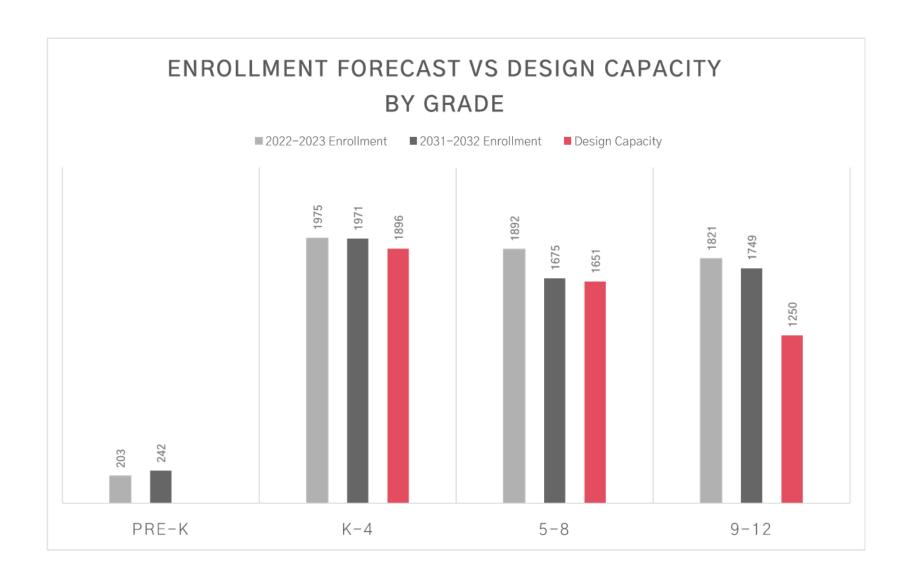
- The student body population that a given school can support <u>as it currently exists</u>
- Calculated based on:
 - Current programmatic usage
 - SPS School Committee policy guidelines for class size
 - MSBA guidelines for classroom square footage sizes
- Portable/modular classroom square footage also excluded from this calculation

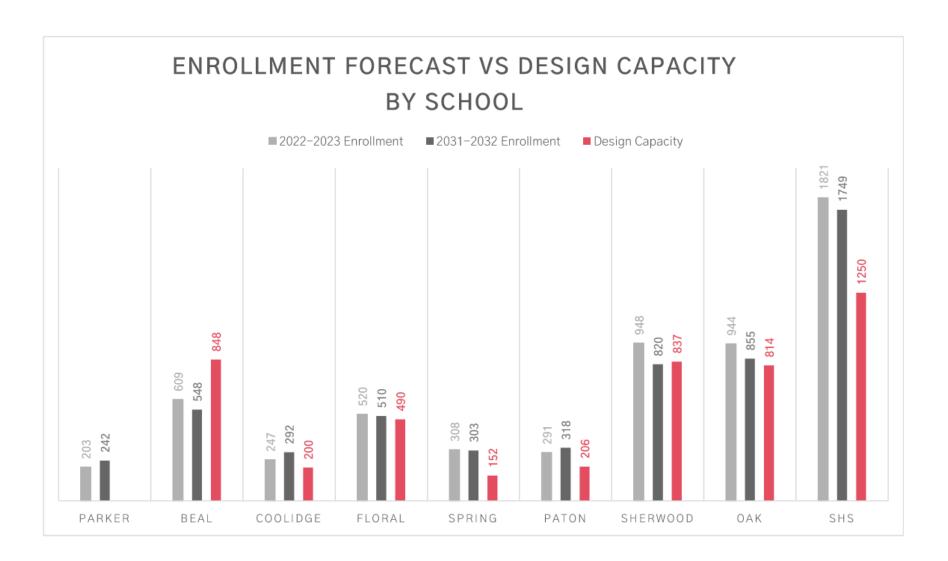
	ENRO	LLMEN	IT	DESIG	DESIGN CAPACITY			
	2022- 2023	2031- 2032	10-YR DELTA	MIN.	MEAN	MAX.	10-YR DELTA*	
PRE-K								
PARKER ROAD	203	242	39					
ELEMENTARY (K-4)	1,975	1,971	(4)	1,806	1,896	1,988	(75)	
MAJOR HOWARD BEAL	609	548	(61)	808	848	888	300	
CALVIN COOLIDGE	247	292	45	190	200	210	(92)	
FLORAL STREET	520	510	(10)	467	490	514	(20)	
SPRING STREET	308	303	(5)	145	152	160	(151)	
WALTER J PATON	291	318	27	196	206	216	(112)	
MIDDLE SCHOOL (5-8)	1,892	1,675	(217)	1,578	1,651	1,722	(24)	
SHERWOOD (5-6)	948	820	(128)	800	837	873	17	
OAK (7-8)	944	855	(89)	778	814	849	(41)	
HIGH SCHOOL (9-12)								
SHREWSBURY HIGH	1,821	1,749	(72)	1,185	1,250	1,316	(499)	

*10-YR DESIGN CAPACITY DELTA = (MEAN DESIGN CAPACITY) - (2031-2032 ENROLLMENT)

	ENROLLMENT 2031- 2032	DESIGN CAPACITY MEAN	10-YR DELTA*
PRE-K			
PARKER ROAD	242		
ELEMENTARY (K-4)	1,971	1,896	(75)
MAJOR HOWARD BEAL	548	848	300
CALVIN COOLIDGE	292	200	(92)
FLORAL STREET	510	490	(20)
SPRING STREET	303	152	(151)
WALTER J PATON	318	206	(112)
MIDDLE COLLOOL /E O			(0.1)
MIDDLE SCHOOL (5–8)	1,675	1,651	(24)
SHERWOOD (5-6)	820	837	17
OAK (7-8)	855	814	(41)
HIGH SCHOOL (9-12)			
SHREWSBURY HIGH	1,749	1,250	(499)

*10-YR DESIGN CAPACITY DELTA = (MEAN DESIGN CAPACITY) - (2031-2032 ENROLLMENT)



















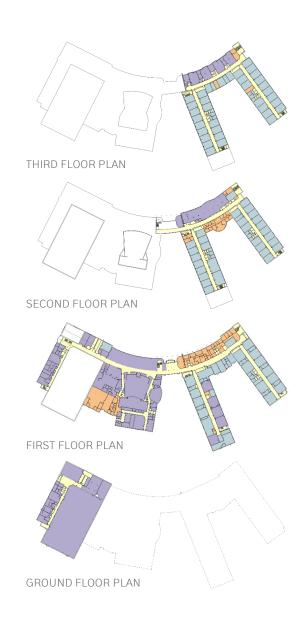
SCHOOLYEAR	TOTAL ENROLLMENT (9-12)	CHANGE
2022-23	1,821	_
2031-32	1,749	(72)
*Design Capacity	1,250	(499)

Enrollment numbers taken from "Population and Enrollment Forecasts, 2022-23 Through 2031-32" by McKibben Demographic Research, March 2022; see Appendix for full report.

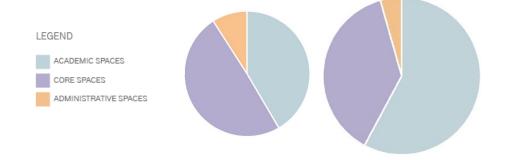
*Design Capacity refers to the mean student body population that a given school can support as it currently exists.

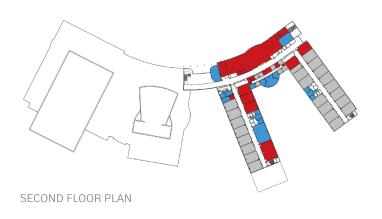
Mean value is calculated based on the SPS School Committee policy guidelines for class size,
as well as MSBA guidelines for classroom square footage size.

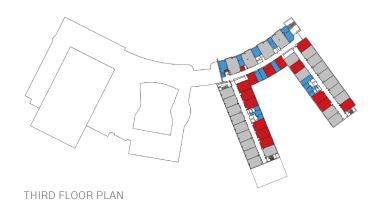
Note that portable classroom square footage is excluded from this calculation.
See Educational Review Introduction for the calculation methodology.

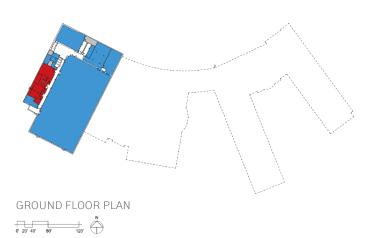


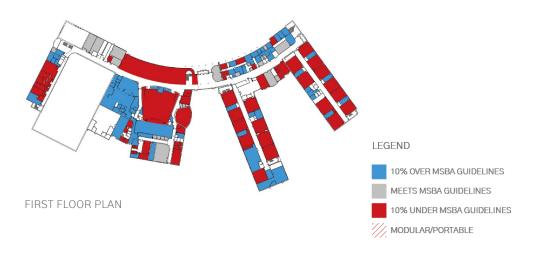
SPACE TYPE	EXISTING SQFT (NET)	MSBA GUIDELINE SQFT (NET)	DEFICIENCY (GROSS GF=1.5)
CORE ACADEMIC SPACES * Excludes portable classroom square footage.	73,969	101,535	(41,349)
SPECIAL EDUCATION	9,669	26,160	(24,737)
OTHER (PRE-K SUITE)	1,743	0	2,615
ACADEMIC TOTAL	85,381	127,695	(63,471)
ART & MUSIC	10,395	8,350	3,068
VOCATIONS & TECHNOLOGY	7,722	21,600	(20,817)
HEALTH & PHYSICAL EDUCATION	47,454	26,194	31,890
MEDIA CENTER	9,201	10,831	(2,445)
AUDITORIUM & DRAMA	11,111	10,400	1,067
DINING & FOOD SERVICE	15,628	13,668	2,940
CORE TOTAL	101,511	91,043	15,702
MEDICAL	1,270	1,510	(360)
ADMINISTRATION & GUIDANCE	11,965	6,150	8,723
CUSTODIAL & MAINTENANCE	5,021	2,937	3,126
ADMINISTRATIVE TOTAL	18,256	10,597	11,489
TOTAL FLOOR AREA	205,148	229,335	(36,281)

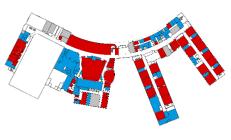




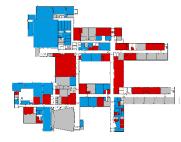




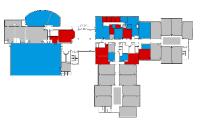








OAK MIDDLE SCHOOL



SHERWOOD MIDDLE SCHOOL



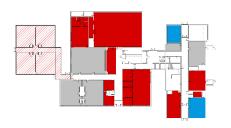
SPRING STREET SCHOOL



WALTER J. PATON SCHOOL



FLORAL STREET SCHOOL



CALVIN COOLIDGE SCHOOL



MAJ. HOWARD W. BEAL SCHOOL



PARKER ROAD PRESCHOOL

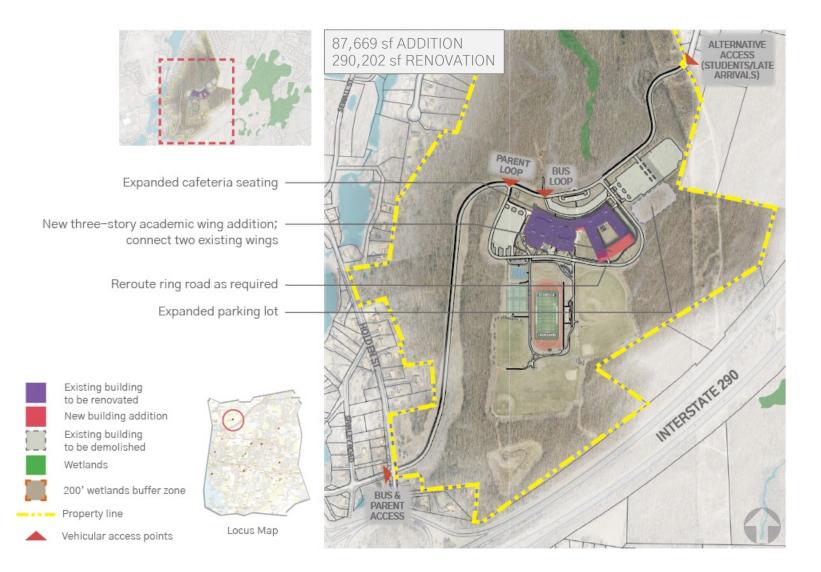
FEASIBLE	ILARS	RENOVATION	OVATION	NEW SCHOOL ON EXISTING SITE				NEW SCHOOL ON ALT. SITE			
● MARGINAL PRE-K	REMOVE MODULARS & REDISTRICT	ADDITION/RENOVATION AT 10-YR. ENROLLMEN	ADDITION/RENOVATION FOR PRE-K FACILITY	(+/-) 242 PRE-K STUDENTS	(+/-) 375 PRE-K STUDENTS	(+/-) 300 ELEM. STUDENTS	(+/-) 600 ELEM. STUDENTS	(+/-) 300 ELEM. + 300 PRE-K STUD.	(+/-) 300 STUDENTS	(+/-) 600 STUDENTS	
PARKER ROAD				•	•	•	•		•	•	
ELEMENTARY (K-4) MAJOR HOWARD BEAL											
CALVIN COOLIDGE	•	•	•			•	•	•	•	•	
FLORAL STREET		•									
SPRING STREET	•		•				•		•		
WALTER J PATON	•	•	•			•			•		
MIDDLE SCHOOL (5-8) SHERWOOD OAK		•									
HIGH SCHOOL (9-12) SHREWSBURY HIGH		•									

PRIORITIES

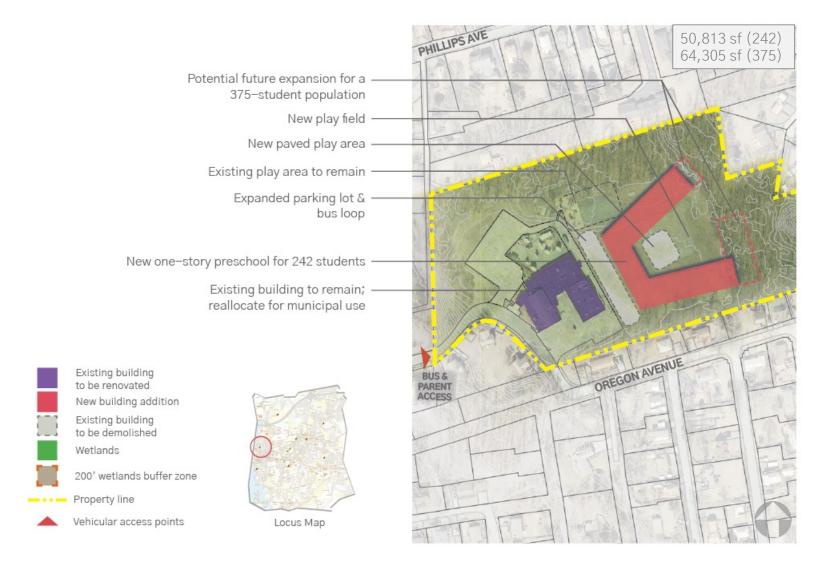
- Address Overcrowding at the High School
- Replace Coolidge Elementary School & Expand District Wide Pre-K
- Parity Among the K-4 Schools
- Address Aging Building Stock & Provide 21st Century Learning Spaces
- Net Zero Upgrades
- Provide Air Conditioning for Equity Across the District
- Unify School Department Administration

BUDGET DEVELOPMENT METHODOLOGY

- 2024 Unit pricing
- New Construction vs Addition/Renovation
 - Tier I vs Tier II renovations
 - Tier I: major interior renovation, envelope improvements
 - Tier II: minor interior remodel (no space reconfiguration)
- Systems Upgrades
 - Add air conditioning all buildings
- Net Zero Upgrades
 - Improvements to building systems included in base numbers
 - PV array costs listed separately from total budget numbers
- All budgets included in the presentation are Construction Cost Only









Consolidate School Department Administration

- Currently split between Town Hall, 15 Parker Road, and spaces throughout the district
- Based on previous reports ±6,000 net sq.ft. is needed
- Consolidating into one location at Town Hall

Leverage & Eliminate through building orientation & envelope design

4

Reduce & Optimize through building systems efficiencies

2

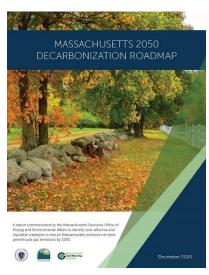
Verify & Educate through monitoring & occupant engagement

3

Generate & Offset

through renewables, storage, & credits

4



Goal for this study was to make equipment and building system improvements to reduce or eliminate the reliance on fossil fuels with the goal of approaching net zero. Then offset the remaining deficit through renewable energy like photovoltaic panels and/or geothermal wells

PRIORITIES

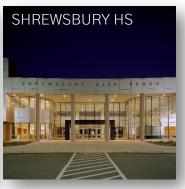
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PRE-K THROUGH 12

CAPITAL INVESTMENT AND ASSESSMENT STUDY