

Proposed Agenda

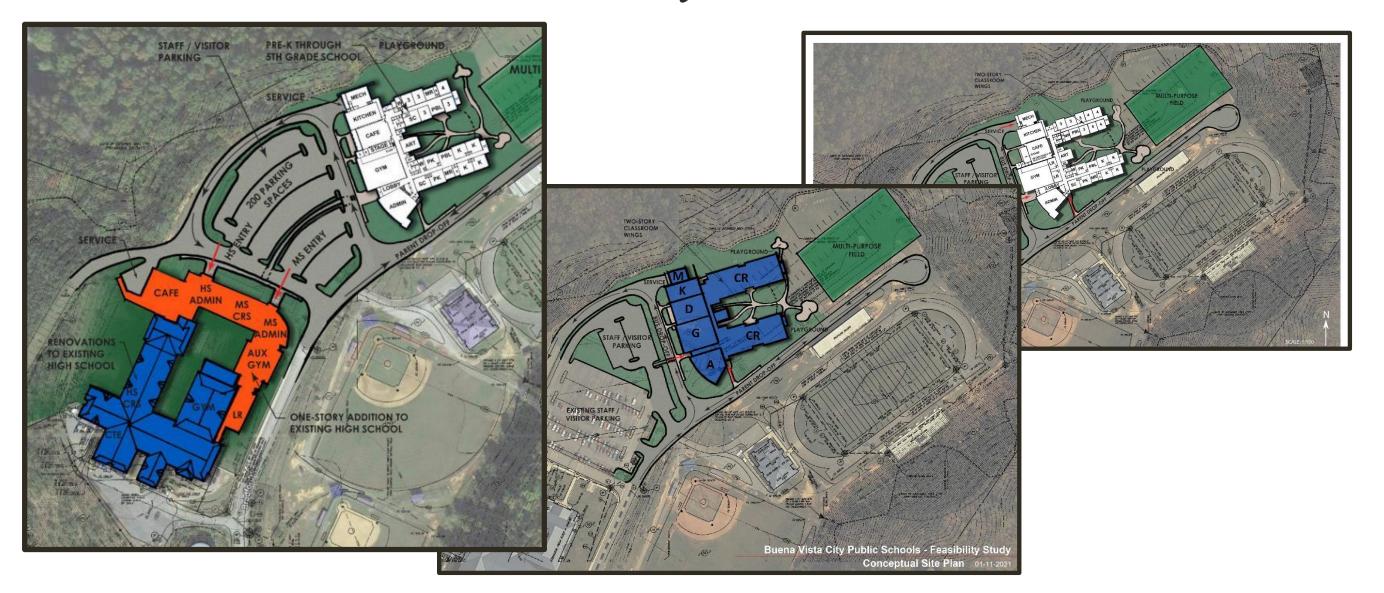
- Brief History of the Process
- Review of Existing Conditions
- Project Cost Comparisons
- Energy Analysis

Brief History

SPACE DESCRIPT	TION	NUMBER	SF(each)	Subtotal	REMARKS					
Conceptual Plann	ing Assumptions							01	_	
					Assumes Efficiency Ratio (N	let SF /	y in 2	UI.)	
Net to Gross Multip					GSF) of 67%		,			
	GSF Area Required			103,815			37.0	500	38	
SF Per Pupil, VDO			_	127						,
Existing Useable Ar Area of New Addition			 	103,815					1	
Cost/SF for Renov	Concepti	1201 PT 12	innun				10,250	1 7 7 7 1 1 1		
Cost/SF for New C	001100011	ALAI I IX	AT 11 100 1;	g riosani	ptions	 				
Estimated Cost Re										Assumes Efficiency Ratio (Net SF /
Estimated Cost No										
Estimated Cost fo	Net to Gro	oss Mi	ultiplie	ľ					1.50	GSF) of 67%
Construction Cost/SF for Building	Approxim	ate To	ital GS	SE Area I	Required				103,815	
Cost/SF for Buildin					required	<u> </u>			100,010	
PRELIMINARY B	SF Per Pu	ıpil, Vi	DOE I	3asis					127	
Architectural / Eng	Existing I	Existing Useable Area					0			
Civil Engineering I Site Design	-	14								
Topographic and	Area of N	Area of New Addition or New Building					103,815			
Off-Site Survey	Cost/SF f	Cost/SF for Renovated Areas				\$	3.50			
Pump Station an Reproductions & I	Cost/SF fo	or Nev	v Con	struction	(Building Only	n)		\$	190.00	
Plat Preparation S						<u>/</u>		Ŧ		
Soils Investigation	Estimated	i Cost	Reno	vated Ar	eas	1			0	
,	hnical Investigations							1	之情小数	B GPM NOT
Phase I ESA								25	7 11 1000	
Site Selection Assis		0.400/		70.000	40/ - 6.0					以下一日間にはアンプは特別
	sting Fees During Constr			79,000					THE RESIDENCE	MAIN A M
Utility Connection F Construction Phase			LS		Allowance	, n			11 11 11 11	
Commissioning Fee		0.40%	LS	79,000	.4% of Construction Cost				11/2	Constitution of the second of
Furnishings Allowa		103,815	\$ 4.00	,	Allowance based on \$4.00 /					
Technology Allowa		103,815	\$ 4.00	415,000.00	Allowance based on \$4.00 /	/ SF				
Construction Contin	ngency	3.00%	LS	592,000	3% of Construction Cost					
Land Purchase					Assumption					
Soft Cost Subtota	A CONTRACTOR OF THE PARTY OF TH			\$ 3,064,867						
TOTAL PROJECT	BUDGET			\$ 22,800,000	ROUNDED	1				

Brief History

• RRMM conducted a second study in 2020/21



What if the new school could fit on the HS Site?



- \$4.2M Savings in Site Development (minimum)
- PMHS has excess capacity
- Potential \$4.2M in Program
 Reduction (Pre-K 6 / 7-12 HS)
- Many educational and communityuse advantages and efficiencies
- More properties available to help offset capital costs
- No land purchase
- No phasing complications
- Solar orientation and views

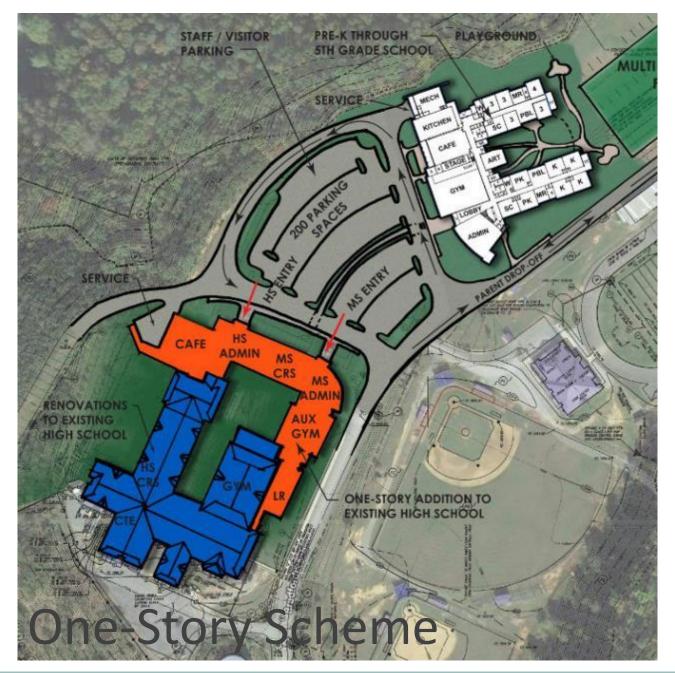
What if?...an initial idea to show potential

Pre-K – 6 School +

7-12 High School



Another idea...New PK-5 + MS Addition at the HS





Another idea...New PK-5 + MS Addition at the HS





More Info on Educational and Community Advantages

- Safety and Convenience for Parents and Students
- Opportunity fo higher-level classes for younger students (7th-language, algebra, etc.)
- Cost saving in resources, staff, infrastructure, transportation
- Combining of programs for efficiency
- Ability to offer better services (academics, arts and athletics)
- No more silo effect with individual schools- all working together
- Sharing of community resources (gyms, auditorium)
- "Draw" for new families "build it and they will come"
- "Go Blue" Vision for future

Proposed PK-7 School...725 Student Capacity



What are the "givens" for a 21st Century School

1. Safety and Security

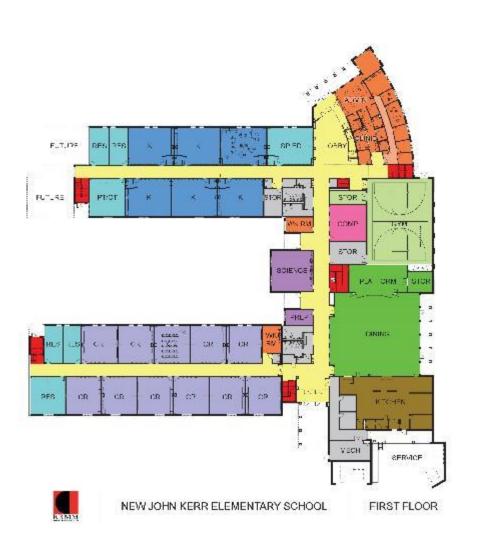
2. Robust infrastructure



- 3. Energy efficiency / Indoor Air Quality
- 4. Accessibility

Other Key Features...

- 1. Highly functional floor plan
- 2. Natural Light / Daylighting Capability (quality of the environment)
- 3. Adaptability for sloped metal roofs (if desired)



Brief History

2020/21

SPACE DESCRIPTION	NUMBER	SF(each)	Subtotal	REMARKS
Conceptual Planning Assumptions				
				Assumes Efficiency Ratio (Net SF /
Net to Gross Multiplier			1.50	GSF) of 67%
Approximate Total GSF Area Required			99,480	Say 99,500
SF Per Pupil, VDOE Basis			138	
Existing Useable Area			0	
Area of New Addition or New Building		(99,480	
Cost/SF for Renovated Areas			\$ 3.50	
Cost/SF for New Construction			\$ 299.00	
Estimated Cost Renovated Areas			0	
Estimated Cost New Building Construction			29,744,520	
Estimated Cost for Sitework				included in cost/sf for building
Construction Cost (Hard Cost) Subtotal			\$ 29,740,000	
Cost/SF for Building and Sitework				\$ 298.95
DDE: HAINLADY BUIDGET FOR COST COST				
PRELIMINARY BUDGET FOR SOFT COST				
Soft Cost Factor			0.85	
Soft Cost Allowance			\$ 5,260,000	
TOTAL PROJECT BUDGET			\$ 35,000,000	ROUNDED



General Scope of Work

- Part A
 - General Evaluation of Existing Conditions at Enderly, Kling, and PMMS
 - Conducted walk-thru observations
 - Included architectural and mechanical / electrical
 - Review of limited existing documentation
 - Interview staff
- Part B
 - Reprogram to confirm the PK-7 program requirements
- Part C
 - Using the info from Part A and Part B, compare the cost of new construction to renovation
 - Evaluate energy cost

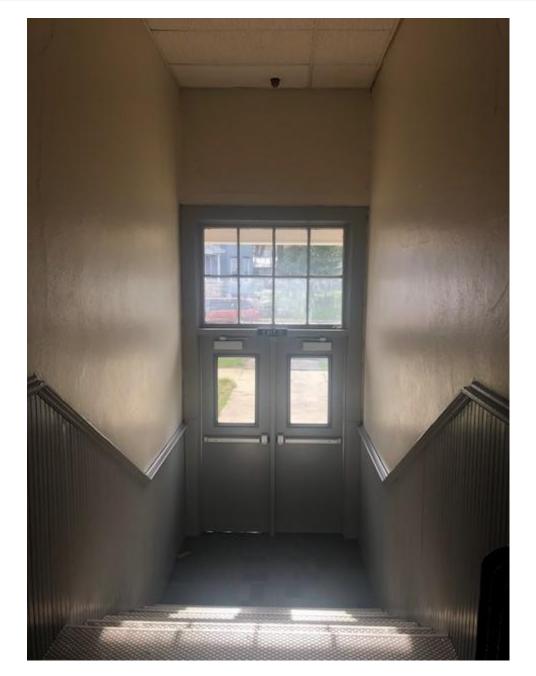


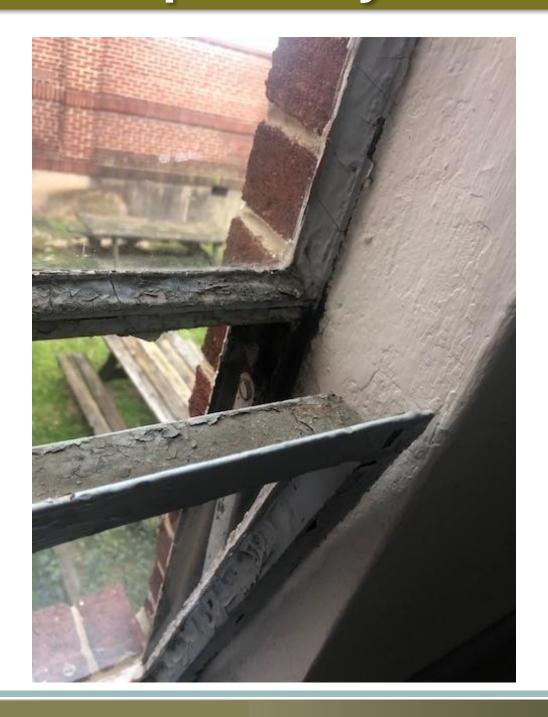
PMMS

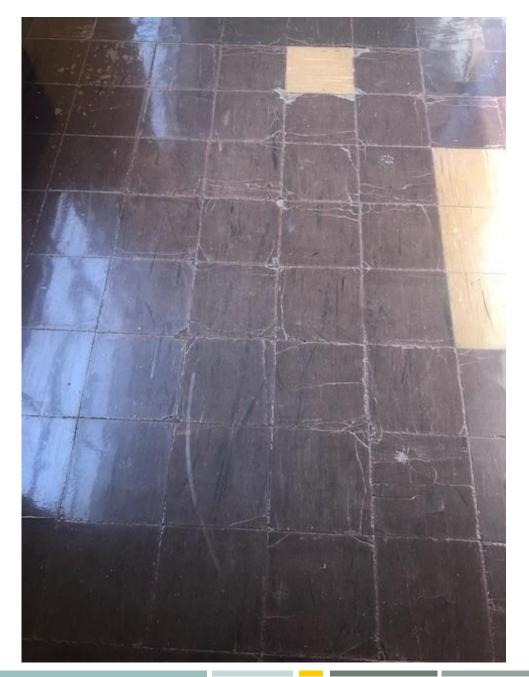
















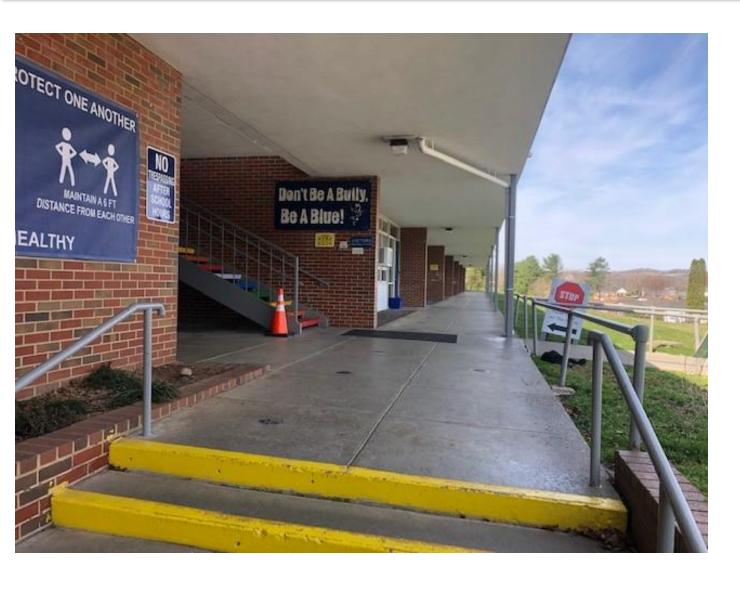




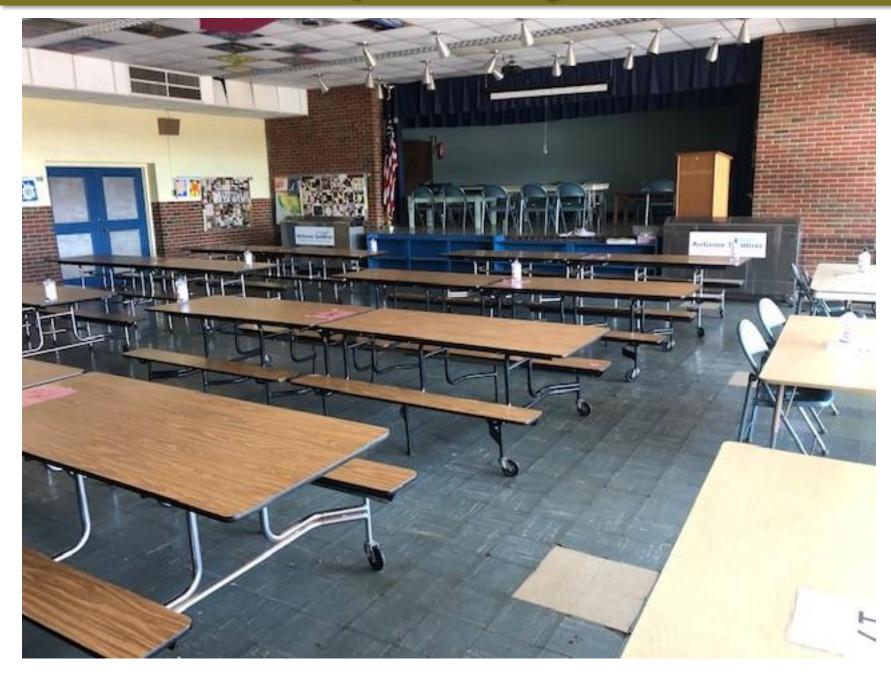
Enderly and Kling

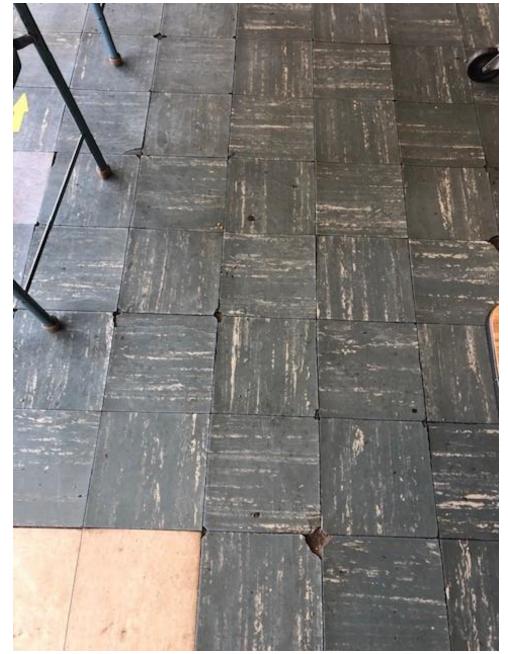














Program Update

2020

Conceptual Planning Assumptions	
	A
Net to Gross Multiplier	1.50 G
Approximate Total GSF Area Required	99,480 S
SF Per Pupil, VDOE Basis	138
Existing Useable Area	0
Area of New Addition or New Building	99,480
Cost/SF for Renovated Areas	\$ 3.50
Cost/SF for New Construction	
Estimated Cost for Sitework	
PRELIMINARY BUDGET FOR SOFT COST	
Soft Cost Factor	

2022

Conceptual Planning Assumptions		
		As
Net to Gross Multiplier	1.50	GS
Approximate Total GSF Area Required	113,093	Sa
SF Per Pupil, VDOE Basis	169	
Existing Useable Area	0	
Area of New Addition or New Building	113,093	
Cost/SF for Renovated Areas	\$ 3.50	
Cost/SF for New Construction		
Estimated Cost Renovated Areas		
		inc
		\$
PRELIMINARY BUDGET FOR SOFT COST		
Soft Cost Factor		



Cost Update

2020

 Conceptual Planning Assumptions
 A

 Net to Gross Multiplier
 1.50 G

 Approximate Total GSF Area Required
 99,480 Si

 SF Per Pupil, VDOE Basis
 138

 Existing Useable Area
 0

 Area of New Addition or New Building
 99,480

 Cost/SF for Renovated Areas
 \$ 3.50

 Cost/SF for New Construction
 \$ 299.00

 Estimated Cost Renovated Areas
 0

 Estimated Cost New Building Construction
 29,744,520

 Estimated Cost for Sitework
 in

 Construction Cost (Hard Cost) Subtotal
 \$ 29,740,000

 Cost/SF for Building and Sitework
 \$

2022

Conceptual Planning Assumptions		
		As
Net to Gross Multiplier	1.50	G:
Approximate Total GSF Area Required	113,093	Sa
SF Per Pupil, VDOE Basis	169	
Existing Useable Area	0	i
Area of New Addition or New Building	113,093	
Cost/SF for Renovated Areas	\$ 3.50	
Cost/SF for New Construction	\$ 399.00	
Estimated Cost Renovated Areas	0	
Estimated Cost New Building Construction	45,123,908	
PRELIMINARY BUDGET FOR SOFT COST		



Cost Update

TOTAL PROJECT BUDGET

2020

Conceptual Planning Assumptions Net to Gross Multiplier 1.50 G Approximate Total GSF Area Required 99.480 SF Per Pupil, VDOE Basis 138 Existing Useable Area Area of New Addition or New Building 99.480 Cost/SF for Renovated Areas 3.50 Cost/SF for New Construction 299.00 Estimated Cost Renovated Areas Estimated Cost New Building Construction 29,744,520 Estimated Cost for Sitework Construction Cost (Hard Cost) Subtotal \$ 29,740,000 Cost/SF for Building and Sitework PRELIMINARY BUDGET FOR SOFT COST Soft Cost Factor 0.85 \$ 5,260,000 Soft Cost Allowance

2022

Conceptual Planning Assumptions		
		A٥
Net to Gross Multiplier	1.50	G:
Approximate Total GSF Area Required	113,093	Sa
SF Per Pupil, VDOE Basis	169	
Existing Useable Area	0	
Area of New Addition or New Building	113,093	
Cost/SF for Renovated Areas	\$ 3.50	
Cost/SF for New Construction	\$ 399.00	
Estimated Cost Renovated Areas	0	
Estimated Cost New Building Construction	45,123,908	
Estimated Cost for Sitework		in
Construction Cost (Hard Cost) Subtotal	\$ 45,120,000	
Cost/SF for Building and Sitework		\$
PRELIMINARY BUDGET FOR SOFT COST		
Soft Cost Factor	0.85	
Soft Cost Allowance	\$ 7,980,000	
TOTAL PROJECT BUDGET	\$ 53,100,000	R

2020 BUILDING IN TODAY'S DOLLARS = \$46.7M

\$ 35,000,000



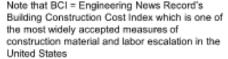
SKANSKA

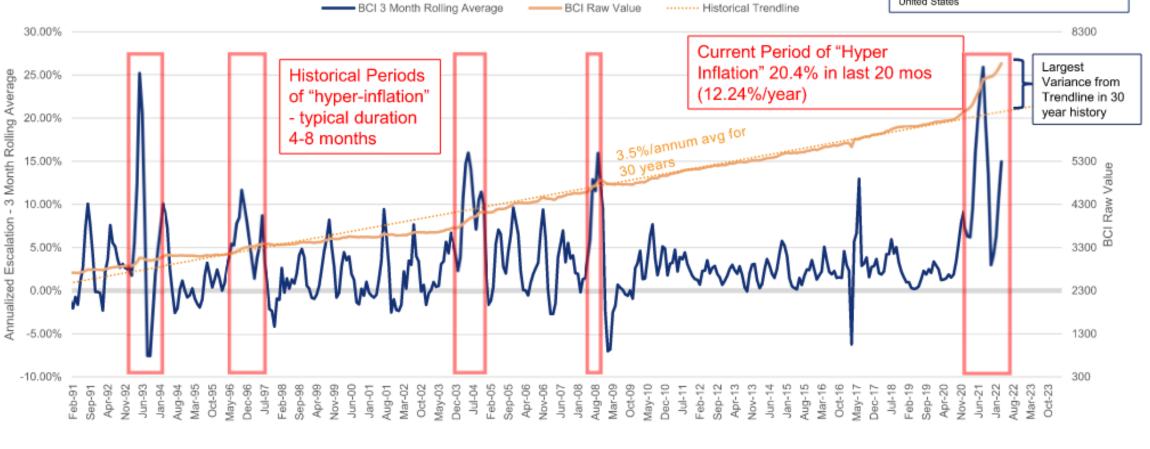
4/28/2022

Building Construction Cost Index and Monthly

Market Conditions Insights







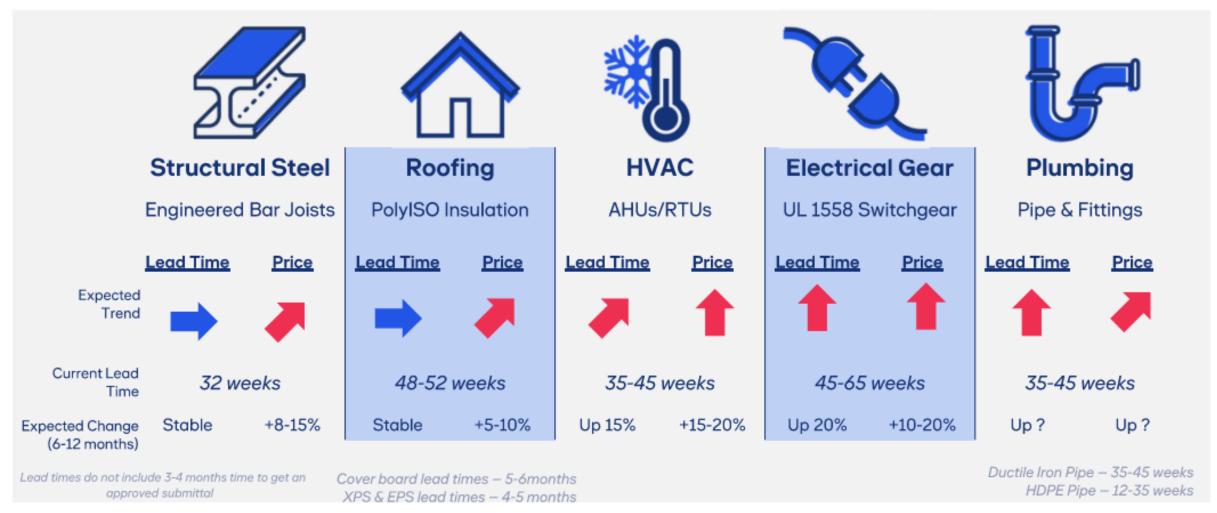
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Construction Input Costs Comparison



2022 Material and Equipment Supply Chain Outlook

Most Troublesome Categories During 2021 & 2022



SKANSKA

Updated: 4.21.22

Cost Comparison

School	Approx. Existing SF	Renovation Cost / SF	\$\$\$
Kling Elementary	32,000	\$200	\$6,400,000
Enderly Elementary	25,000	\$200	\$5,000,000
Parry McCluer Middle	105,000	\$300	\$31,500,000
Tota	162,000		\$ 42,900,000
Estimated Soft Costs @ 15%			\$ 6,435,000
Tota	l		\$ 49,335,000

Programmed Need = 113,000 SF (max) vrs. Total Existing Area = 162,000 SF Build New PreK-7 = \$53M or Renovate Existing = \$49.5M

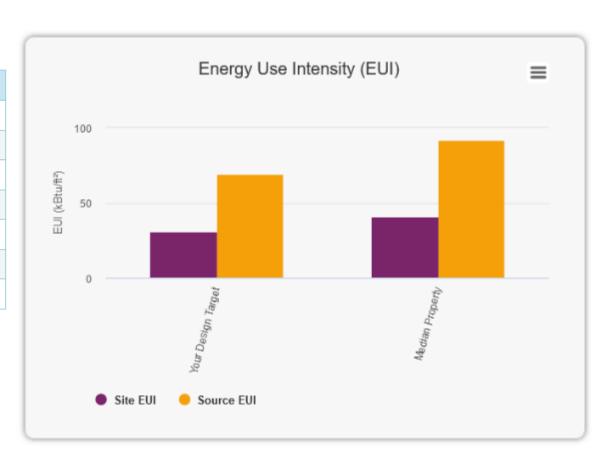


Energy Cost Savings

Metrics Comparison for Your Design and/or Target

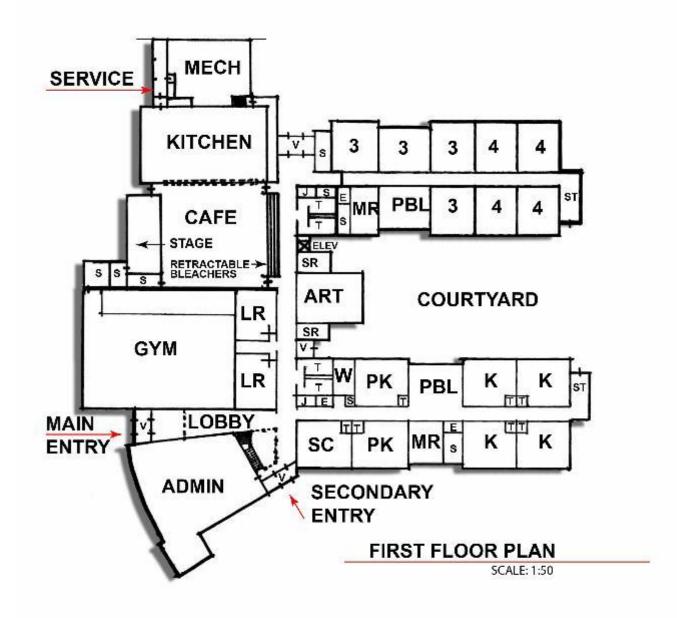
Metric	Design Project	Design Target*	Median Property*
ENERGY STAR score (1-100)	Not Available	75	50
Source EUI (kBtu/ft²)	Not Available	69.3	91.6
Site EUI (kBtu/ft²)	Not Available	30.7	40.6
Source Energy Use (kBtu)	Not Available	7,829,256.8	10,352,977.3
Site Energy Use (kBtu)	Not Available	3,471,452.0	4,590,457.0
Energy Cost (\$)	Not Available	60,714.28	80,285.22
Total GHG Emissions (Metric Tons CO2e)	0.0	273.3	361.3

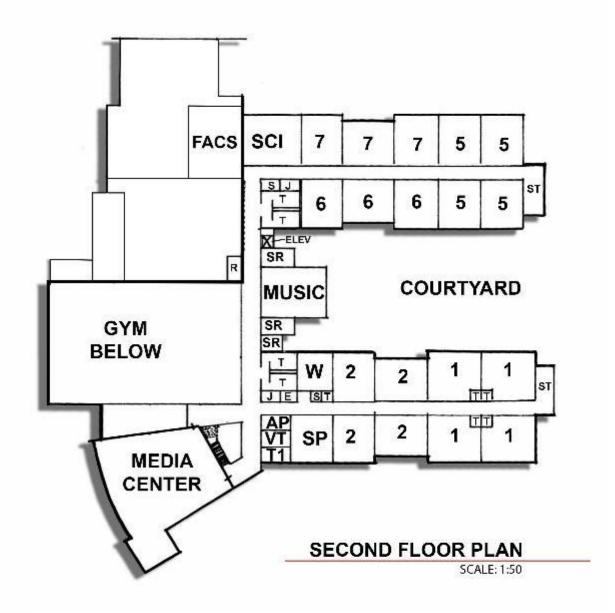
At Least a 30% Cost Savings in Energy



DISCUSSION

Proposed PK-7 School





TOTAL APPROX. GROSS SF = 99,500

JOHN KERR ELEMENTARY Winchester, VA







John Kerr Elementary









