

November 15, 2023



Agenda



Design Options

- Review Comparative Conceptual Cost Analysis
- Review Options Constraints
- Review Design Options
- Review Options Priority Matrix
- Possible Vote to eliminate a number of design options and/or design enrollments from consideration





Preliminary Options - Areas



Option	645 students	750 students	805 students	900 students	975 students	
Addition/ Renovation AR- 1 "L-shape"	201,500 sf	217,500 sf	230,400 sf	243,200 sf	254,500 sf	
Addition/ Renovation AR- 2 "Lightwell"	188,100 sf	201,700 sf	209,600 sf	228,500 sf	236,100 sf	
New Construction NC-1 "Courtyard"	203,480 sf	228,540 sf	240,000 sf	260,000 sf	278,000 sf	
New Construction NC-2 "Linear"	203,480 sf	228,540 sf	240,000 sf	260,000 sf	278,000 sf	
New Construction NC-2.1 "Linear/Center core"	203,480 sf	228,540 sf	240,000 sf	260,000 sf	278,000 sf	
New Construction NC-3 "Wings"	203,480 sf	228,540 sf	240,000 sf	260,000 sf	278,000 sf	



South Shore Tech: Hanover,	MA												
Preliminary Desing Program	- Comparative Co	st Analysis											
			805 Students				900 Students				975 Students		
Student Enrollment Range:	645 - 975 Students			New* (all 3 options)	Add/Reno ARI L Shape		New* (all 3 options)		Add/Reno AR1 L Shape			New* (all 3 options)	
TOTAL ESTIMATED PROJECT	TOTAL ESTIMATED PROJECT COSTS			344,190,750	s	349,805,000	5	367,913,625		366,758,125	5	389,362,000	
		Cost/Student	\$	427,566	\$	434,540	\$	408,793	\$	407,509	\$	399,346	
Estimated MSBA Participation	on Range***			30.4%	jķ	30.5%		30.8%		30.5%	1	31.1%	
			\$	104,633,988.00	\$	106,690,525.00	\$	113,317,396.50	\$	111,861,228.13	5	121,091,582.00	
Estimated District Share Ran	nge***			69.6%		69.5%		69.2%		69.5%		68.9%	
	Estimated S	ihare By District****	\$	239,556,762.00	\$	243,114,475.00	ş	254,596,228.50	\$	254,896,896.88	\$	268,270,418.00	
	Abington	16.70%	5	40,005,979.25	5	40,600,117.33	\$	42,517,570.16	5	42,567,781.78	5	44,801,159.81	
	Cohasset	1.49%	5	3,569,395.75	5	3,622,405.68	5	3,793,483.80	\$	3,797,963.76	S	3,997,229.23	
	Hanover	11.06%	\$	26,494,977.88	\$	26,888,460.94	5	28,158,342.87	\$	28,191,596.79	5	29,670,708.23	
	Hanson	13.03%	\$	31,214,246,09	s	31,677,816.09	5	33,173,888.57	\$	33,213,065.66	5	34,955,635.47	
	Norwell	4.10%	5	9,821,827.24	5	9,967,693.48	5	10,438,445.37	\$	10,450,772,77	5	10,999,087,14	
	Rockland	22.77%	5	54,547,074.71	5	55,357,165.96	5	57,971,561.23	\$	58,040,023.42	S	61,085,174.18	
	Scituate	6.60%	\$	15,810,746.29	5	16,045,555.35	5	16,803,351.08	\$	16,823,195.19	5	17,705,847.59	
	Whitman	24.25%	\$	58,092,514.79	5	58,955,260.19	\$	61,739,585.41	5	61,812,497.49	S	65,055,576.37	

^{*}Costs are the same across all New Construction Options for each enrollmentshown as a single cost for simplicity.

The estimated construction and total project cost provided are for COMPARISON PURPOSES ONLY. The estimated costs will be updated at the Preliminary Schematic Report (PSR) phase to assist the committee in defining the single preferred solution to proceed into the Schematic Design (SD) phase. The actual costs and total project budget will be established at the end of the Schematic Design (SD) phase for the district's preferred solution.

^{**}Costs based on CM at-Risk delivery method for simplicity.

^{***}Estimated MSBA Participation and District Share Ranges calculated without MSBA input. This range likely to change by the time the project finishes Schematic Design.

^{****}Based on October 1, 2023 reporting numbers







Status Updates



Site Development Requirements

Key issues

- Vehicular Circulation, Bus & Car Access
- Parking requirements
- Athletic Fields & support spaces
- Outdoor Learning opportunities
- Utilities
- Outbuildings
- Adjacent Property

	existing				
Enrollments:	645	750	805	900	975
Staff: (Admin & Teachers):	130	150	160	175	185
Approx. 2/3 of seniors:	108	125	134	150	163
Approx. 1/3 of juniors:	53	61	66	74	80
Visitors:	20	23	24	27	29
TOTAL Parking Spaces:	311	359	384	426	457
Bus parking (one bus = 4 cars)	12	14	15	17	19





Preliminary Options

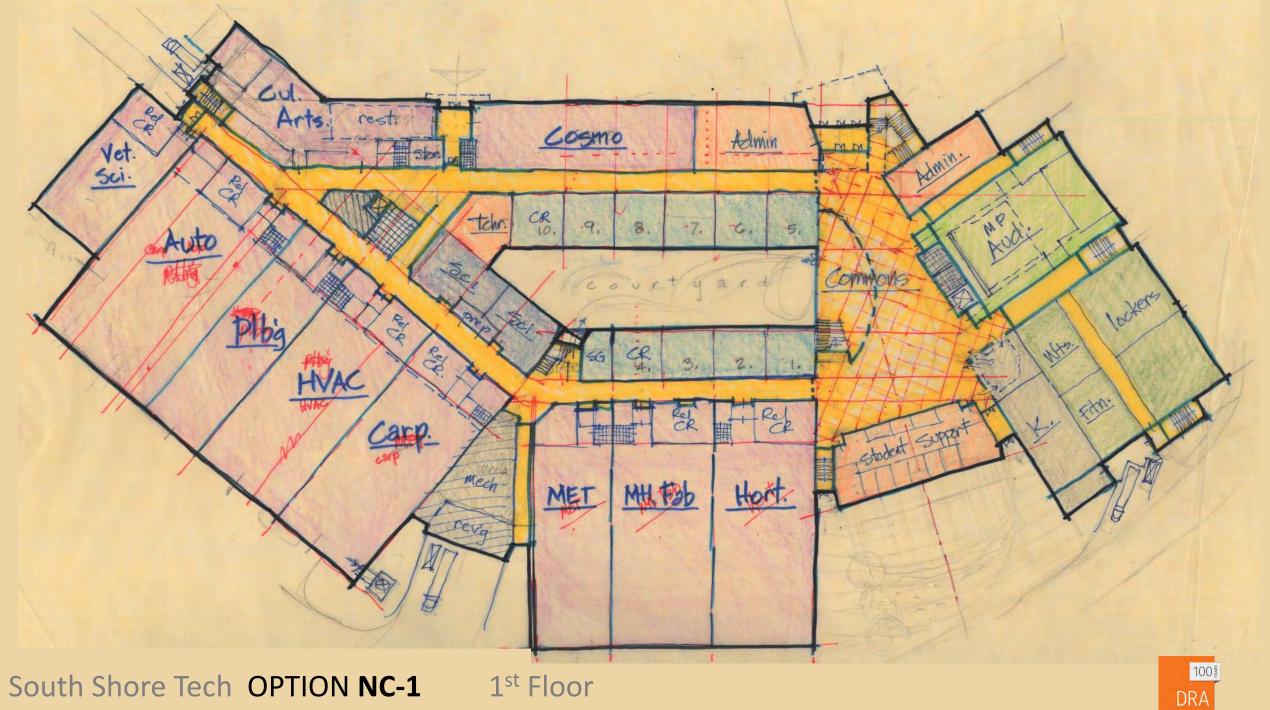


New Construction Options

- NC-1 "Courtyard"
- NC-2 "Linear"
- NC-2.1 "Linear/ Center core"
- NC-3 "Wings"

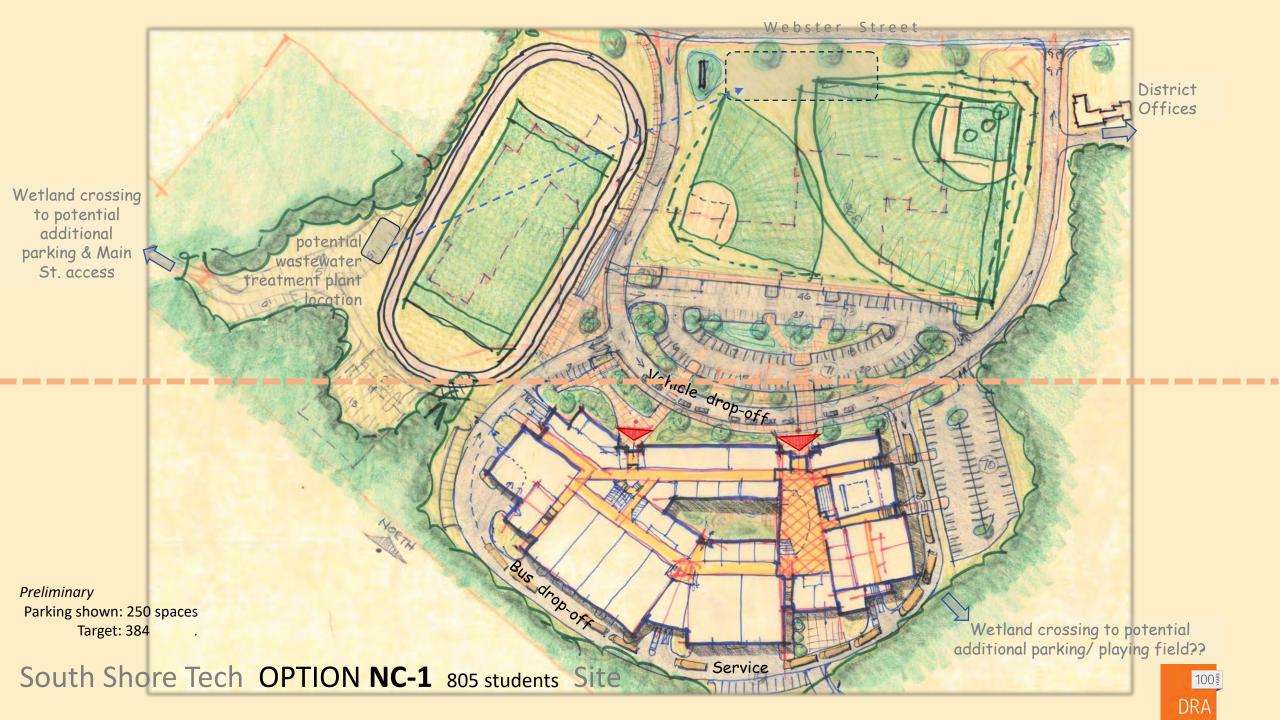


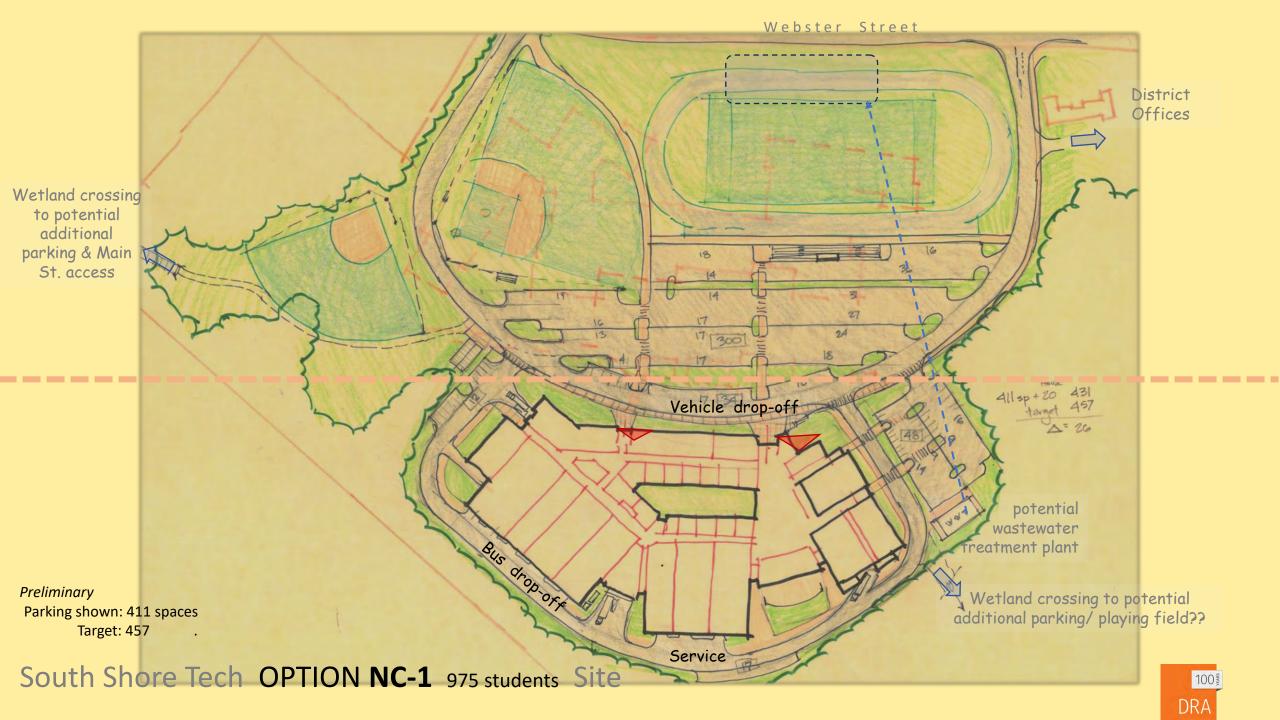




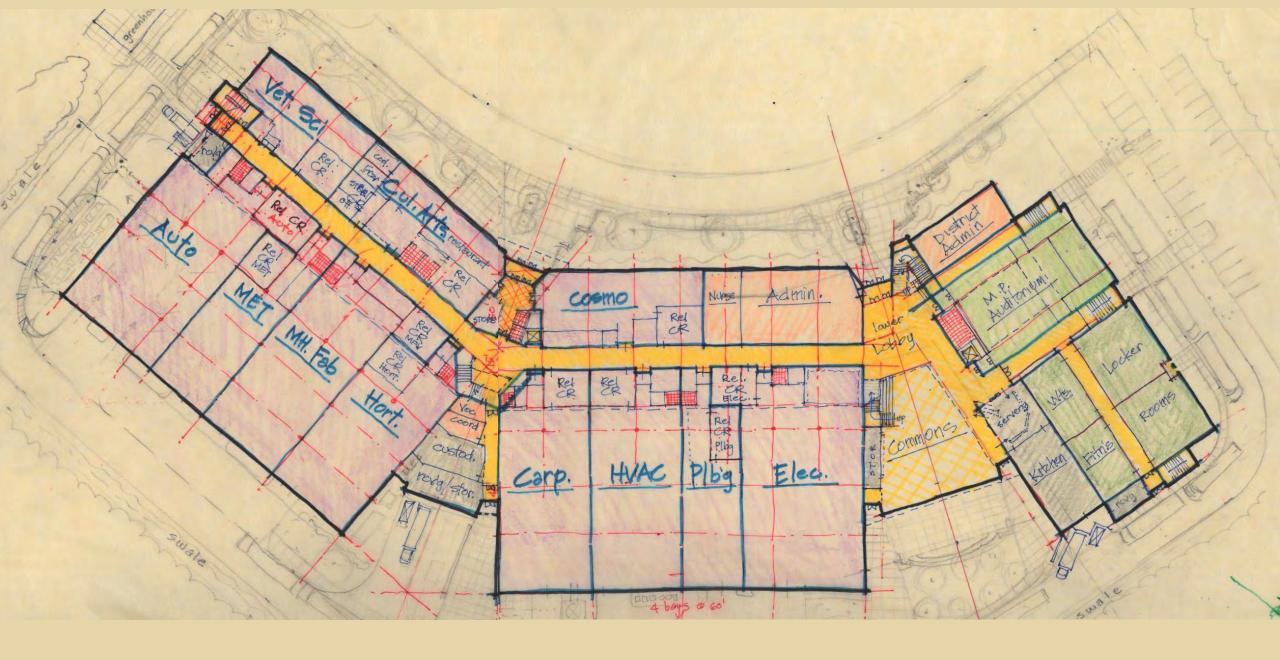
South Shore Tech OPTION NC-1

1st Floor



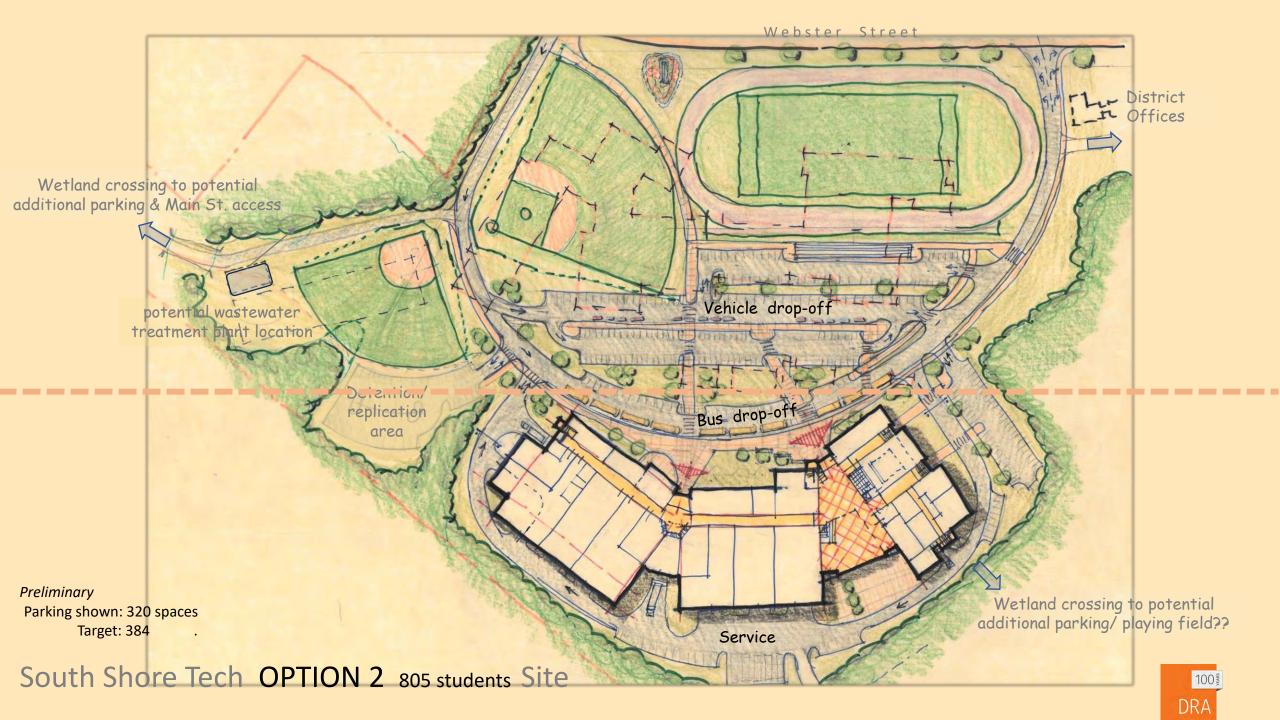


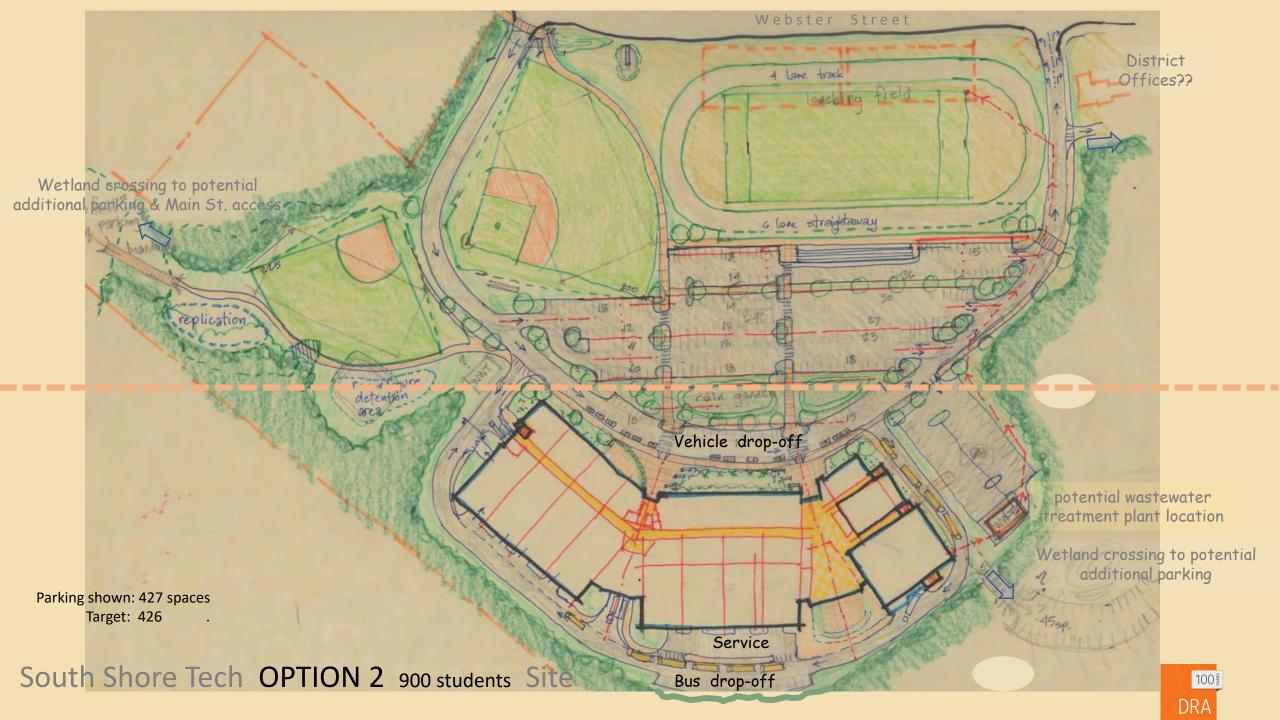


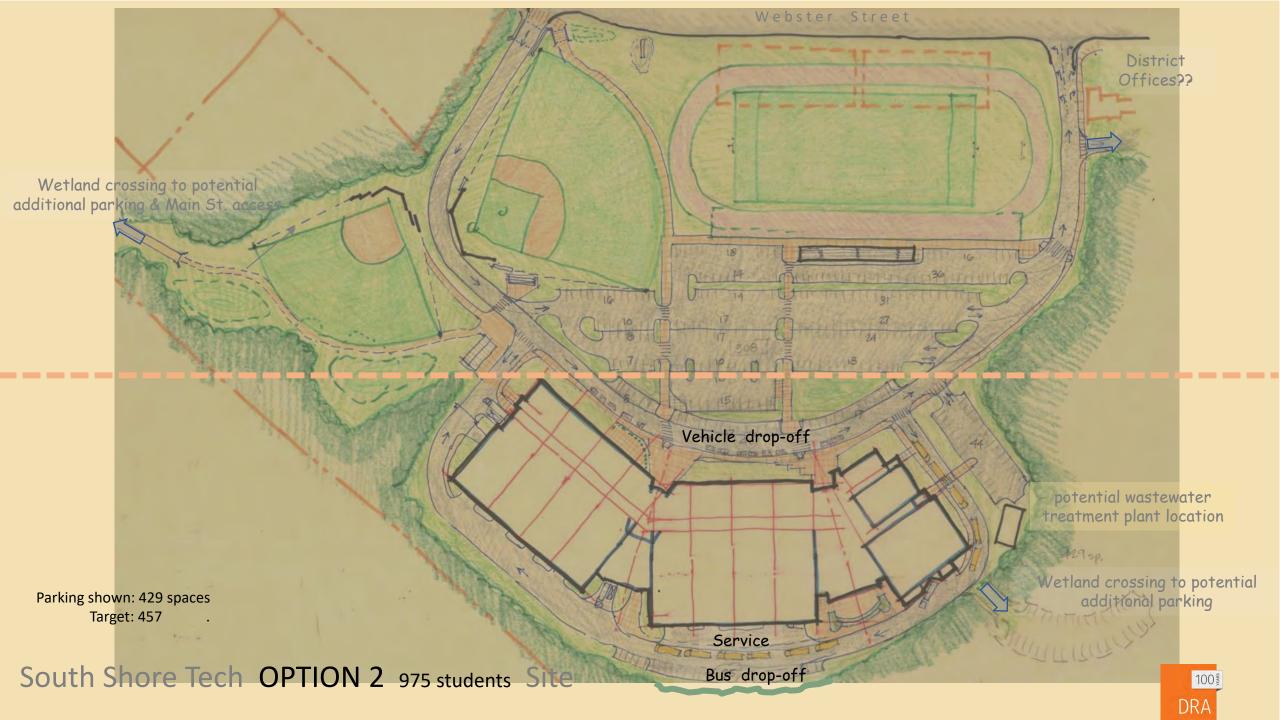




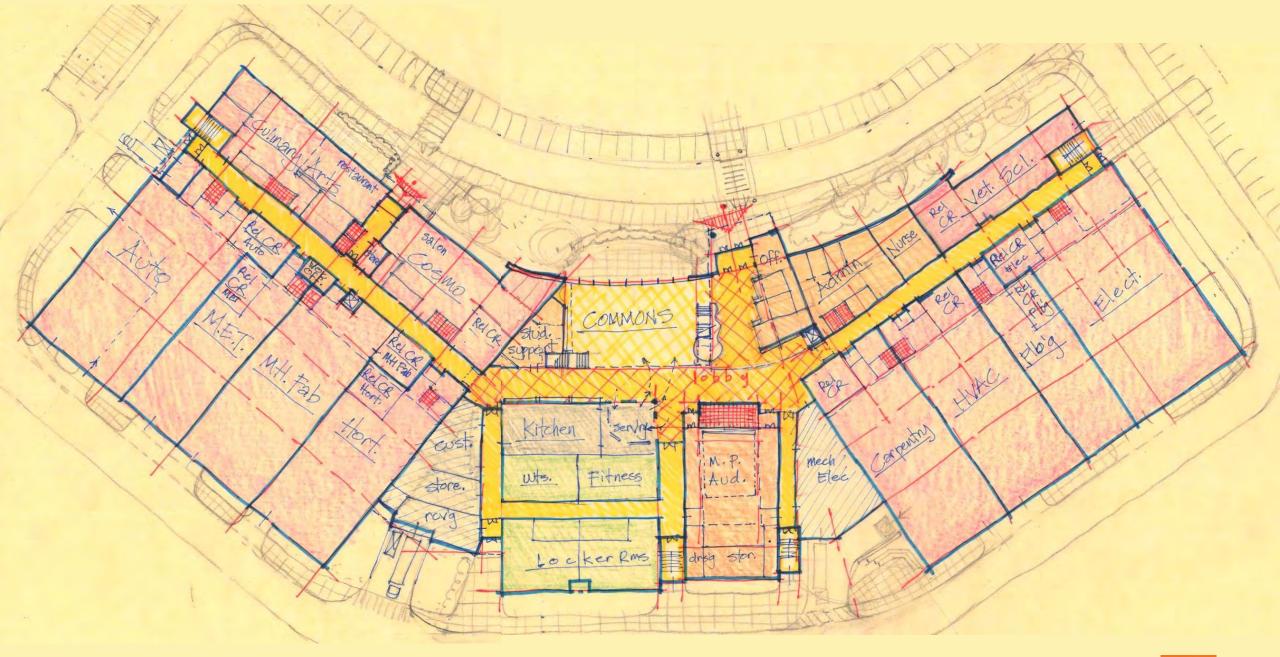




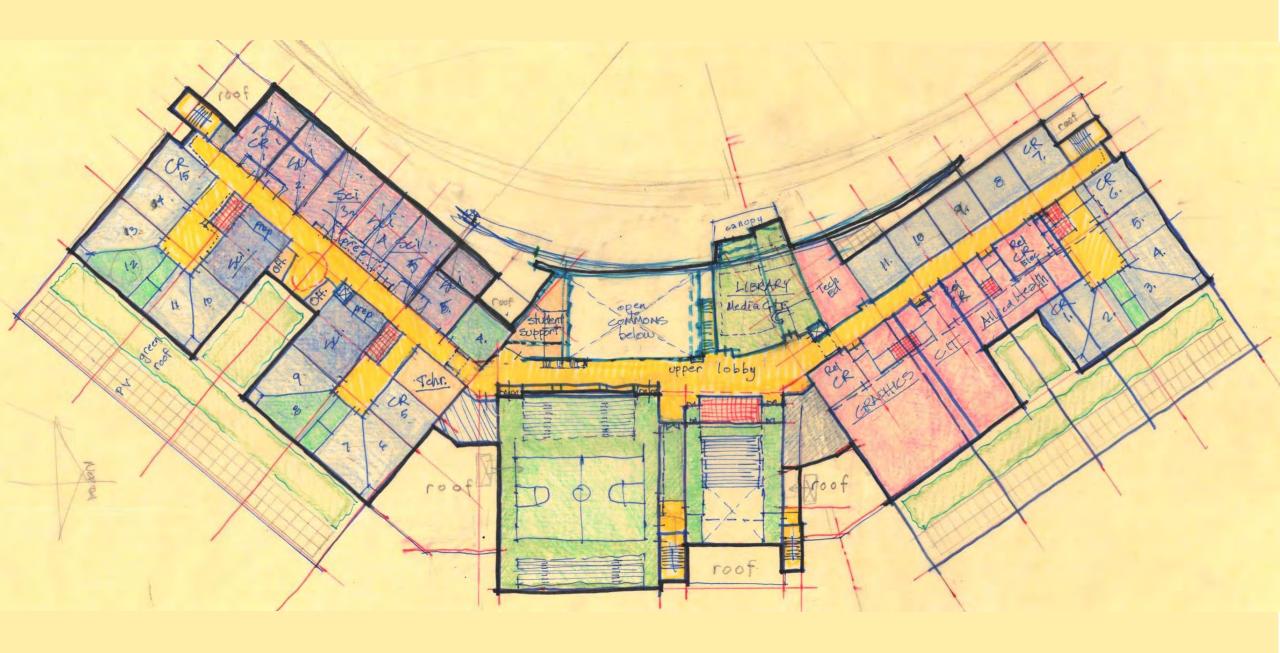




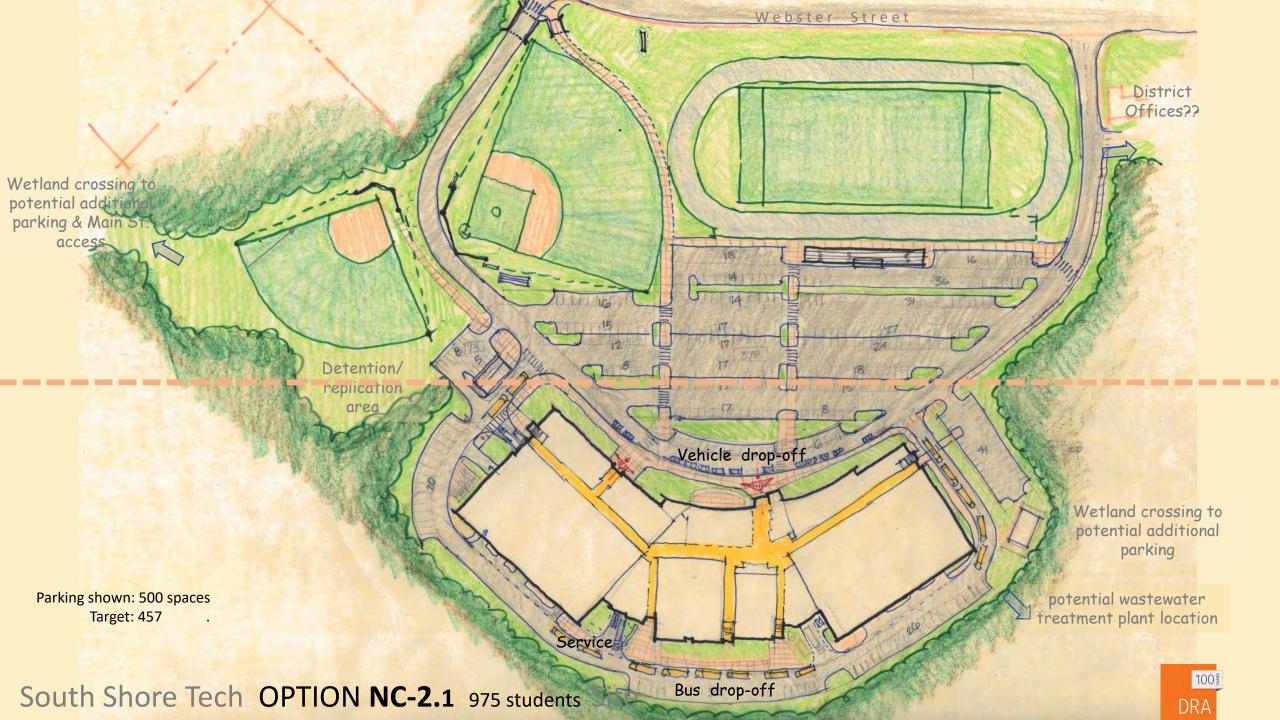


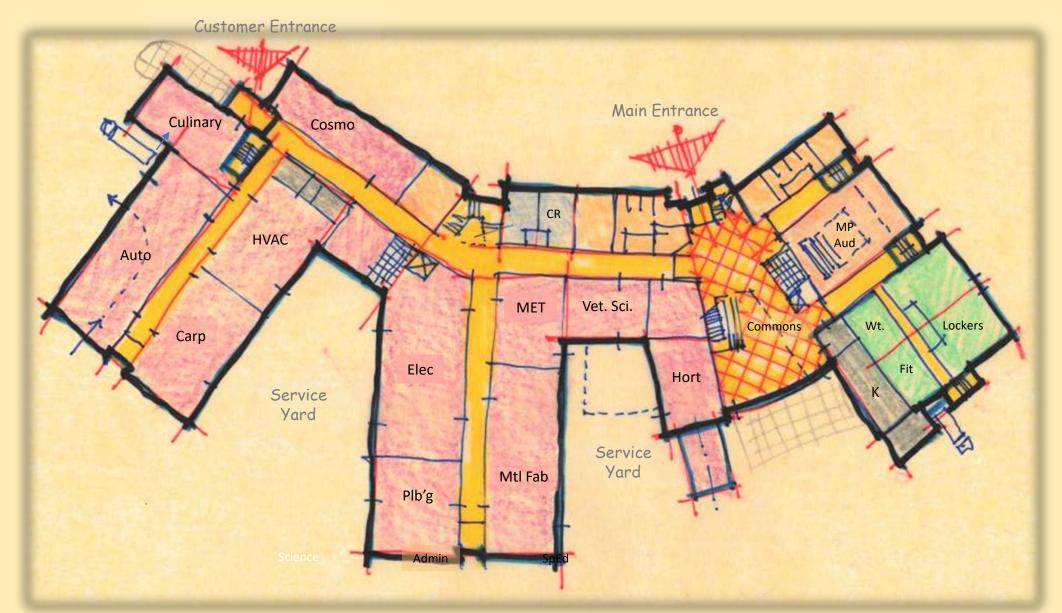


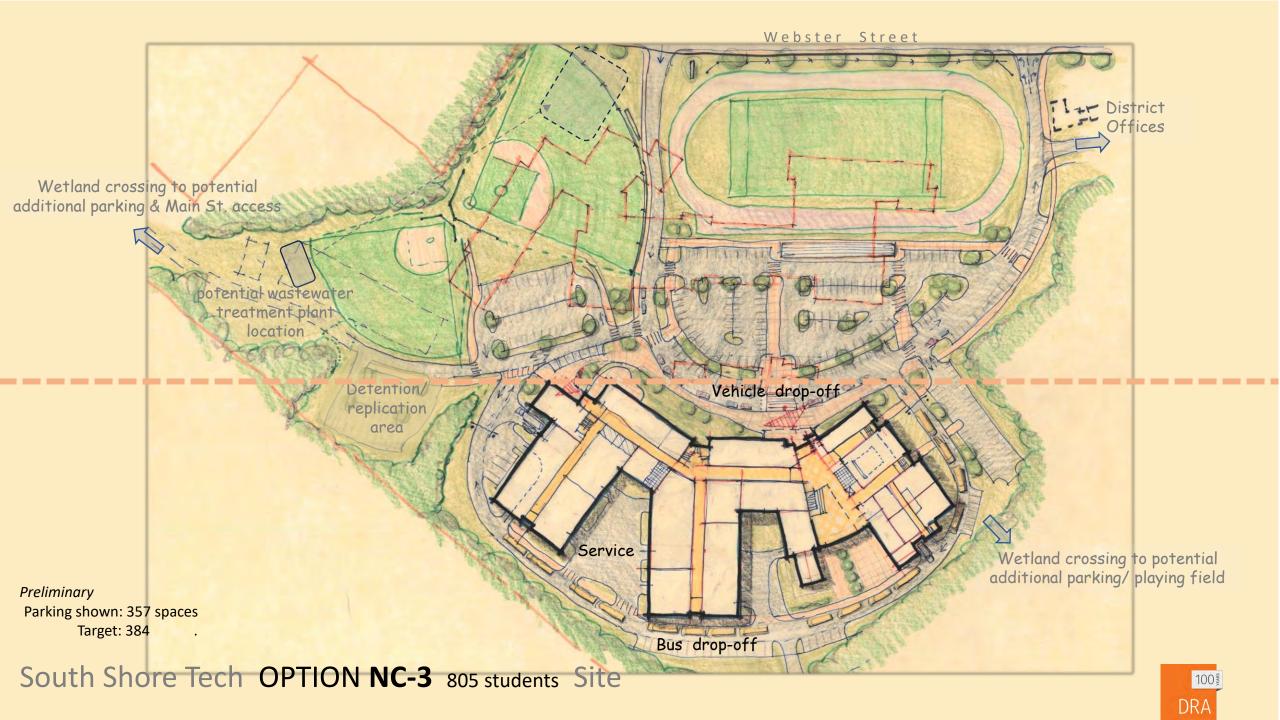
100g DRA

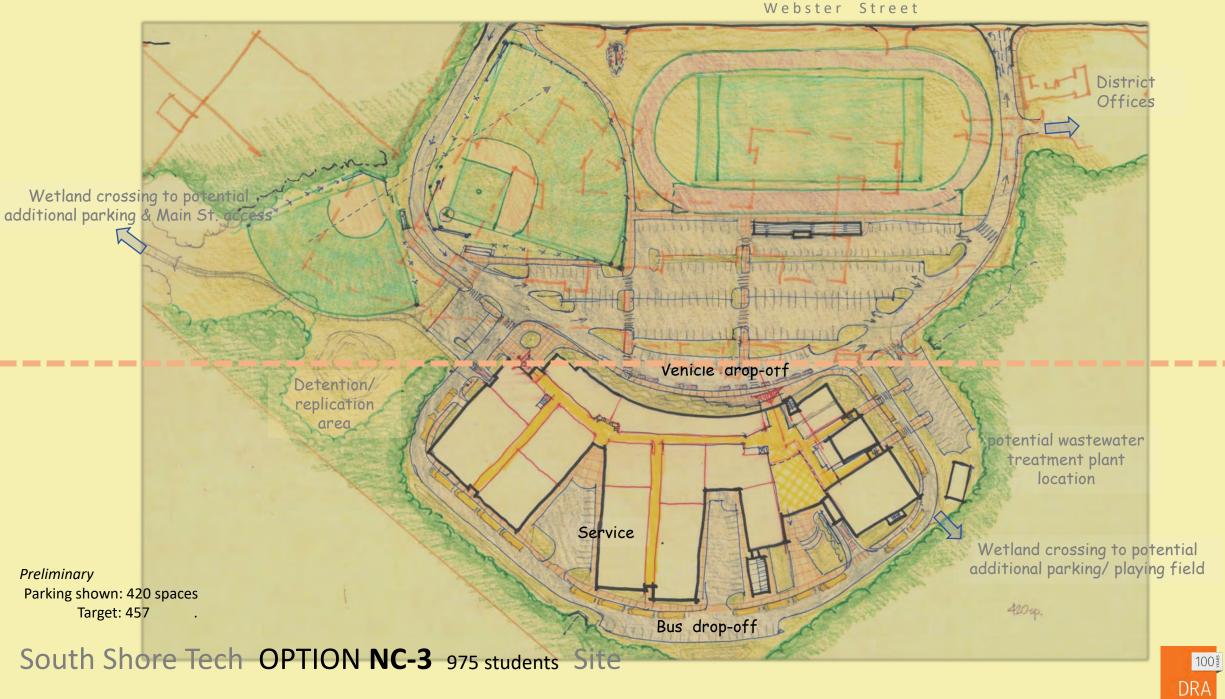


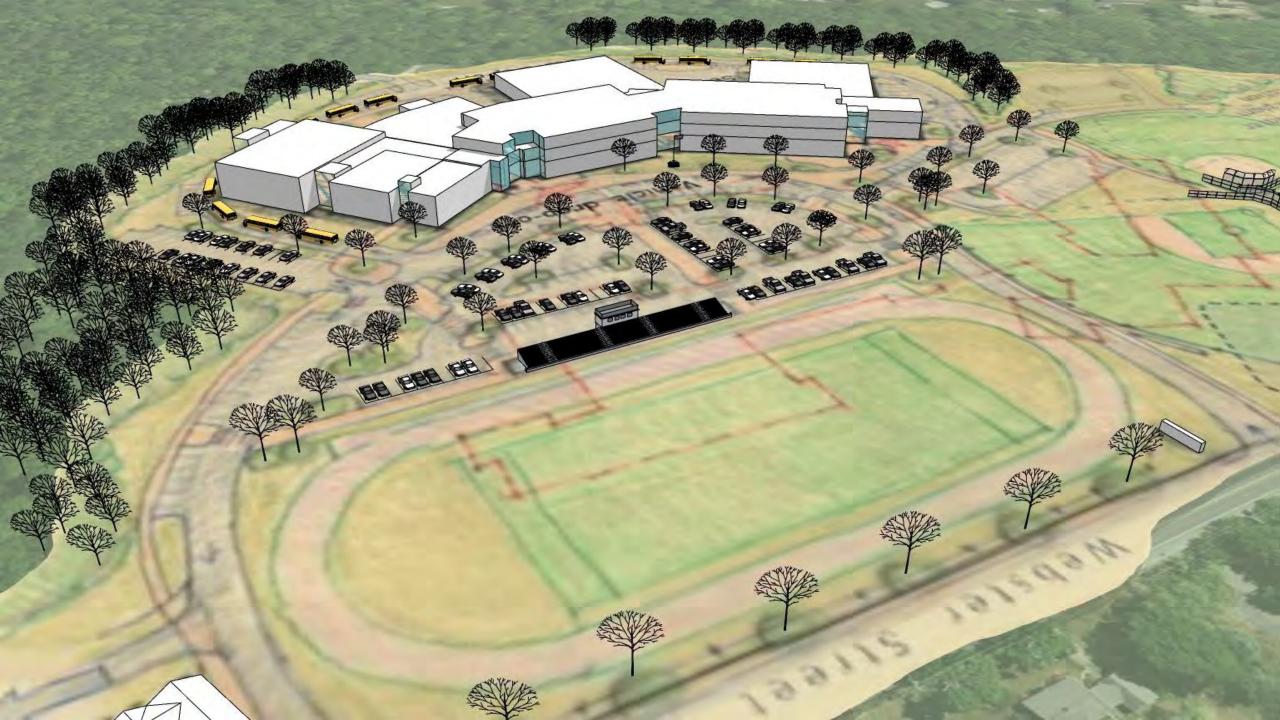














Preliminary Options

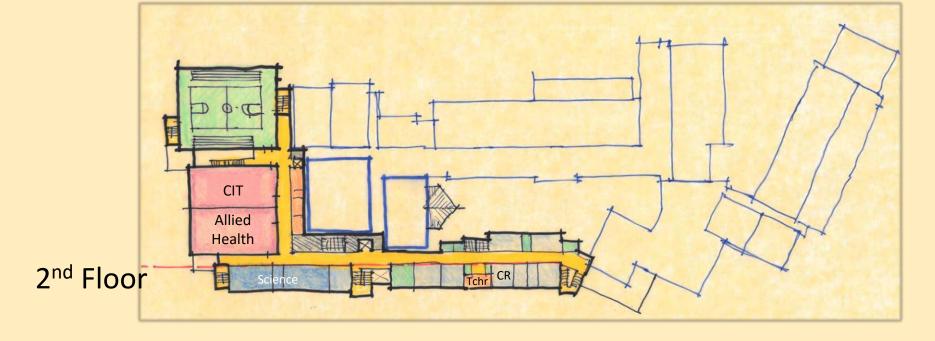


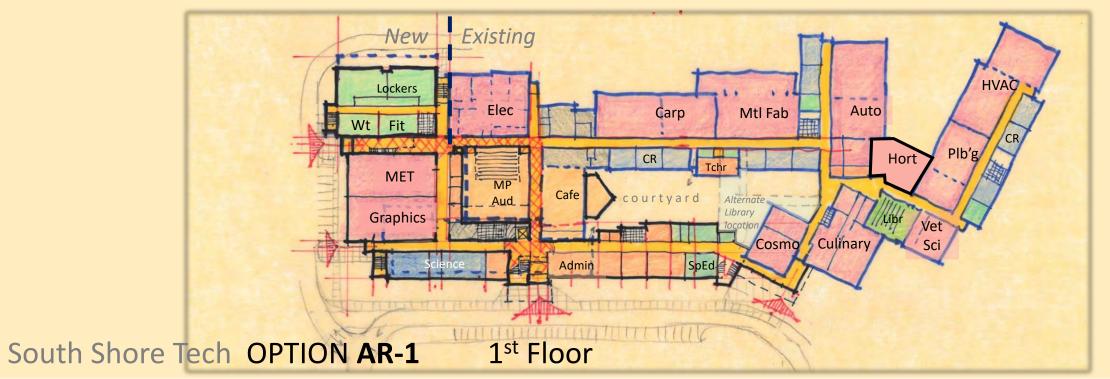
Addition / Renovation Options

AR-1 "L-Shaped"





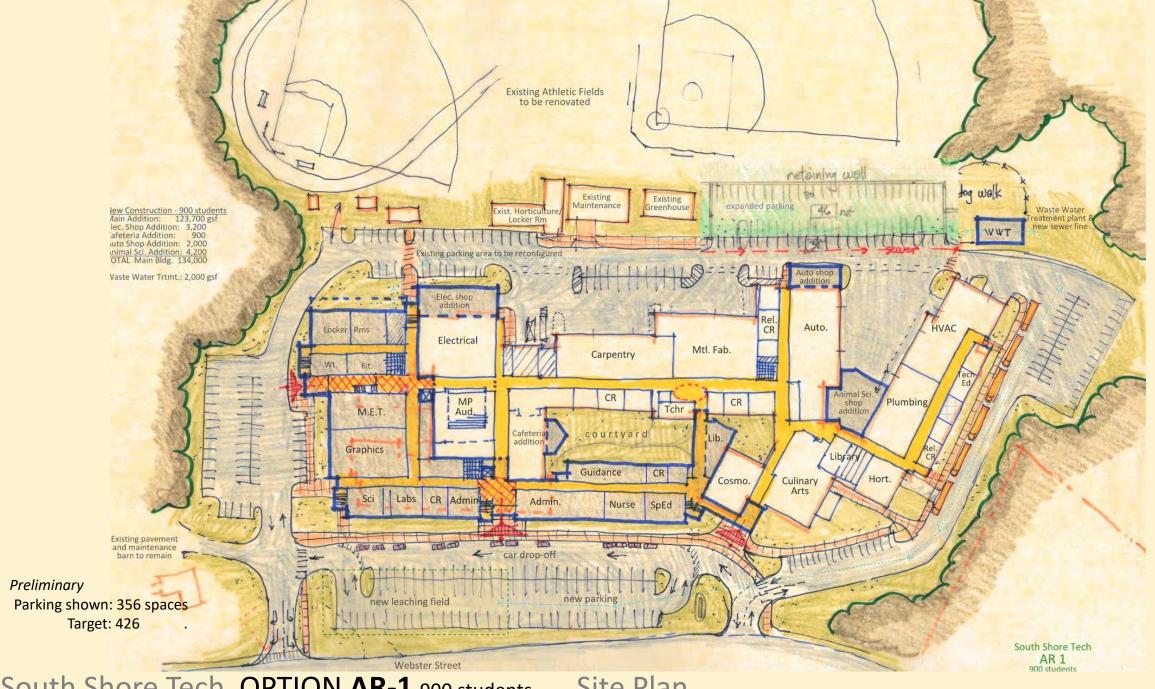




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South Shore Tech OPTION AR-1 900 students

Site Plan

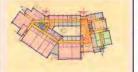
Preliminary Evaluation Matrix - South Shore Tech - Concept Options - WORKING DRAFT

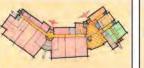
9/14/2023				Concept Optio	ns				
	MSBA Required	Renovation	Add/ Ren	o Options	New Construction Options				
	Base Repair	Renovation	AR.1	AR.2	NC.1	NC.2	NC.3		
Evaluation Criteria	Code Renovation		L - Shaped	Lightwell	Courtyard	Linear	Wings		
Construction Duration:	multiple years		3+ years	4 years	2+ years	2+ years	2+ years		
Ed Plan Accommodation Compliance w/ Vision	doesn't address any educational deficiencies	Not Feasible - Existing Building cannot meet the Space Needs for Target Enrollment	Addresses most Space Needs Lacks meaningful integration of academic & CTE spaces	Addresses some Space Needs Gym & Lecture Hall remain undersited	Good Ed Plan conformance	.Good Ed Plan Conformance	Best Ed Plan Conformance		
Project Cost Reimbursable Cost Temporary Costs Long-term Value			Lower initial cost Higher reimbursment rate for renovation	Lower initial cost Higher reimbursment rate for renovation	Higher Initial Construction Cost Good Long-Term Value	Higher Initial Construction Cost Good Long-Term Value	Higher Initial Construction Cost Good Long-Term Value		
Long-term value			High temporary costs.	Higher temporary costs Poor long Term Value					
Disruption			Phased construction adjasent to occupancy	Phased construction adjasent to occupancy	Minimal impact on adjasent occupncy. Loss of Athletic Fields during construction.	Minimal impact on adjasent occupacy. Loss of Athletic Fields during construction.	Minimal impact on adjasent occupncy. Lo Athletic Fields during construction.		
Impact on Students Construction Duration			Long construction schedule	Long construction schedule	Short duration	Short duration	Short duration		
Phasing			Multi-phase renovation	Multi-phase renovation	2 phases: 1. New construction, 2 Demolition & Sitework	2 phases: 1. New construction, 2 Demolition & Sitework	2 phases: 1. New construction, 2 Demolit Sitework		
			Some Flexibility	Limited flexibility	Good Flexibility,	Good Flexibility,	Good Flexibility,		
Flexibility Community Use			Good community use	Limited community use, lack of Auditorium	Good Community access	Good Community access	Good Community access		
Expansion Potential			Limited expansion potential	Limited expansion potential	Limited expansion potential	Limited expansion potential	Limited expansion potential		
Operating Costs Maintenance			Generally all new finish materials & systems Some existing infrastructure remains	Generally all new finish materials & systems Some existing infrastructure remains	All new construction, infrastructure, & MEP systems Best thermal envelope	All new construction, infrastructure, & MEP systems Best thermal envelope	All new construction, infrastructure, & systems Best thermal envelope		
			Limited Building envelope upgrade	Limited Building envelope upgrade					
Site Access			Site circulation similar to existing Potential admin presence at existing public	Site circulation similar to existing Unchanged access to public shops	Site Approach focused on School	Site approach along edge of property	Site Approach focused on School		
Safety & Security Circulation/ Flow			entrance		Dedicated secure access to public shops	Dedicated secure access to public shops	Dedicated secure access to public sh		
			Remains somewhat sprawling	Remains somewhat sprawling, disjointed	Compact footprint, central student commons	Long linear corridor	Some dead-end corridors		
Final Site layout Site			Similar to existing	Similar to existing	Larger footprint in a constrained site	Building layout follows buildable area	Wings create shared outdoor collaboration		
amenities Impact to Abutters			No additional site amenities	No additional site amenities	Bus access at rear Enclosed outdoor courtyard	Separate Buses and Car drop-offs in front Patio off of the Commons	Bus access at rear off of the Commons		
			Minimal new impact to abutters	Minimal new impact to abutters	Playing fields may impact abutters	Playing fields may impact abutters	Playing fields may impact abutters		
Civic Image / Aesthetics		1 -	New "front door" and civic image	Minimal improved image Lesss opportunity to transform aesthetics	School setback from street Athletic fields & parking in front yard All new construction = all new image	School setback from street Athletic fields & parking in front yard All new construction = all new image	School setback from street Athletic fields & parking in front yar All new construction = all new imag		
Totals									















					Evaluation Criteria	ch	1 - Concept Options - WORK	KING DRAFT	
	Updated: 9/14/2023	MSBA Required	Renovation		Ed Plan Accommodation	n Duration:	ns	New Construction Options	
		Base Repair	Renovation	T	Compliance w/ Vision		NC.1	NC.2	NC.3
	Evaluation Criteria	Code Renovation					Courtyard	Linear	Wings
	Construction Duration:	multiple years	W		Project Cost		2+ years	2+ years	2+ years
1	Ed Plan Accommodation Compliance w/ Vision	doesn't address any educational deficiencies	Not Feasible - Existing Building cannot meet the Space Needs for Target Enrollment	Lac	Reimburgable =	d,	Good Ed Plan conformance	Good Ed Plan Conformance	Best Ed Plan Conformance
2	Project Cost Reimbursable Cost Temporary Costs Long-term Value				Disruption	ation Poor	Higher Initial Construction Cost Good Long-Term Value	Higher Initial Construction Cost Good Long-Term Value	Higher Initial Construction Cost Good Long-Term Value
3	Disruption Impact on Students Construction Duration				Impact on Students Construction Duration Phasing	:upancy	Minimal impact on adjasent occupncy, Loss of Athletic Fields during construction. Short duration	Minimal impact on adjasent occupncy, Loss of Athletic Fields during construction. Short duration	Minimal impact on adjasent occupncy. Loss of Athletic Fields during construction. Short duration
	Phasing						2 phases: 1. New construction, 2 Demolition & Sitework	2 phases: 1. New construction, 2 Demolition & Sitework	2 phases: 1. New construction, 2 Demolition & Sitework
	Flexibility				Flexibility		Good Flexibility,	Good Flexibility,	Good Flexibility,
4	Community Use			11	Community Use	Auditorium	Good Community access	Good Community access	Good Community access
	Expansion Potential				Expansion Potential	ntial	Limited expansion potential	Limited expansion potential	Limited expansion potential
	Outputing Costs				-	als & systems	All new construction, infrastructure, & MEP systems	All new construction, infrastructure, & MEP systems	All new construction, infrastructure, & MEP systems
5	Operating Costs Maintenance			5	Operating Costs	e remains e upgrade	Best thermal envelope	Best thermal envelope	Best thermal envelope
	Site Access				Maintenance	o existing	Site Approach focused on School	Site approach along edge of property	Site Approach focused on School
6	Safety & Security					iblic shops	Dedicated secure access to public shops	Dedicated secure access to public shops	Dedicated secure access to public shops
	Circulation/ Flow				Site Access	ling, disjointed	Compact footprint, central student commons	Long linear corridor	Some dead-end corridors
	Final City Investor			6	Safety & Security	ting	Larger footprint in a constrained site	Building layout follows buildable area	Wings create shared outdoor collaboration area
7	Final Site layout Site amenities Impact to			1	Circulation/ Flow	amenities	Bus access at rear Enclosed outdoor courtyard	Separate Buses and Car drop-offs in front Patio	Bus access at rear Patio off of the Commons
	Abutters			\vdash		t to abutters	Playing fields may impact abutters	Playing fields may impact abutters	Playing fields may impact abutters
				l I,	Final Cir.		School setback from street	School setback from street	School setback from street
8	Civic Image / Aesthetics			7 8	Final Site layout amenities Site	ved image ansform aesthetics	Athletic fields & parking in front yard	Athletic fields & parking in front yard	Athletic fields & parking in front yard
_	Tabele		<u> </u>	A	Abutters Impact to	ansionii aestileuts	All new construction = all new image	All new construction = all new image	All new construction = all new image
	Totals		-	1					
	5 4 3 2	positive / most advantageous neutral		8 Ci	vic Image / Aesthetics				
	i i	negative / least advantageous							2.20.0





Discussion

School Building Committee

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Thank you!

Please note:

Upcoming Community Meetings:

November 9 Marshfield Town Hall 6 pm

December 5 Rockland Senior Center 7 pm

December 14 Whitman Town Hall 7 pm

School Building Committee

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