

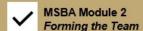
Agenda



- SBC Vote to Approve Prior Minutes
- OPM Update/MSBA Reimbursement Overview
- Designer PDP Submittal Review
 - Education Plan Status
 - Existing Conditions Assessment
 - Preliminary Conceptual Options
 - Preliminary Evaluation Matrix
- SBC Votes
 - Approve Recommended Options for Further Study
 - Vote to Eliminate 1250 Student Enrollment Option
 - Authorize PMA/DRA to Submit PDP to MSBA

Key Project Milestones





AUGUST 2019 OPM Selection

JANUARY 2020 Designer Selection MSBA Module 3
Feasibility Study

JANUARY 2020

Begin Feasibility Study

AUGUST 2020

SC approves Ed. Plan SBC approves PDP

Submit PDP to MSBA

DEC. 2020 or JAN. 2021

SBC approves PSR

JANUARY 2021

Submit PSR to MSBA MSBA FAS Meeting

FEBRUARY 2021

MSBA BOD approves PSR

MSBA Module 4 Schematic Design

JANUARY 2021

Begin Schematic Design

JUNE 2021

SBC approves SD/DESE design package Submit SD/DESE to MSBA

JULY 2021

MSBA FAS Meeting

AUGUST 2021

MSBA BOD approves project scope & budget MSBA Module 5
Funding the Project

LATE DECEMBER 2021

Local funding approval deadline

Acronym glossary

BOD – Board of Directors (MSBA) DESE – Massachusetts Department of Elementary & Secondary Education Ed. Plan – Educational Plan FAS – Facilities Assessment Subcommittee ISS – Initial Space Summary MSBA – Mass. School Building Authority OPM – Owner's Project Manager PDP – Preliminary Design Program PSR – Preferred Schematic Report

SBC – School Building Committee SC – School Committee SD – Schematic Design

MSBA Reimbursement



The MSBA provides percentage reimbursement on eligible project costs.

Per the MSBA: Reimbursement rates for MSBA approved, eligible school construction and renovation projects are calculated pursuant to a formula that is established in Massachusetts General Law, Chapter 70B section 10 (M.G.L. c. 70B § 10)

Base Rate (31% for all districts)

- + Three Socioeconomic Factors
- + Incentive Points (0 % 18%)

= MSBA Reimbursement Rate

https://www.massschoolbuildings.org/sites/default/files/edit-contentfiles/Documents/Guidelines Policies/Reimbursement-Rate-Calculation-UPDATE.pdf

MSBA Reimbursement Rate



The District's current, preliminary reimbursement rate is 63.34%.

Base Rate = 31.0%
Income Factor = 7.58%
Property Wealth Factor = 17.68%
Poverty Factor = 7.08%

= 63.34%

There are ongoing discussions with the MSBA.

Rate does not include incentive points, as these have not yet been determined.

Final rate is locked in at Project Scope & Budget approval, targeted for August 2021

Ineligible Project Costs



- (a) Any costs for an Approved Project in excess of the Total Facilities Grant.
- (b) Financing costs.
- (c) All costs associated with credit rating services, legal services related to the issuance of any indebtedness, and financial consulting services.
- (d) The cost of legal services.
- (e) The provision of any direct or indirect municipal services.
- (f) Any funds expended by the Eligible Applicant prior to the execution of a PFA.
- (g) All costs associated with site acquisition.
- (h) Unsupported or inadequately supported project costs, as determined by the Authority.
- (i) Maintenance or service contracts and warranties.
- (j) Duplicate costs or costs unrelated to the project.
- (k) The lease, purchase or rental of storage space, storage facilities, storage trailers, or storage containers.
- (I) Costs that are normal operating and maintenance costs of the school district
- (n) Penalties, processing fees, catalogue fees, sales tax, memberships, and subscriptions.
- (o) The costs of local building permits, inspection fees, and any other such fees.

- (p) Athletic equipment
- (q) All costs associated with the purchase, lease, improvement, or maintenance of modular units.
- (r) All costs associated with the swing spaces used for the housing of students.
- (s) All costs associated with the transportation of students.
- (t) All costs associated with the purchase, lease or use of any vehicle,
- (u) The costs of any supplies related to the Assisted Facility.
- (v) All costs associated with the demolition of buildings, unless such costs are deemed by the Authority in writing prior to said demolition, to be the most cost effective option.
- (w) All costs associated with utilities.
- (x) All costs associated with cell phone purchase or service.
- (y) Dedication, ceremonial or celebratory costs.
- (z) The Authority reserves it right to disallow any costs associated with any change order that deviates from the scope of the project, as determined by the Authority pursuant to the Project Scope and Budget Agreement.
- (aa) Any costs determined by the Authority to be ineligible pursuant to M.G.L. c. 70B, St. 2004, c. 208, 963 CMR 2.00, the MSBA Audit Guidelines, or any other policy, rule, or guideline of the Authority.

MSBA Cost Caps

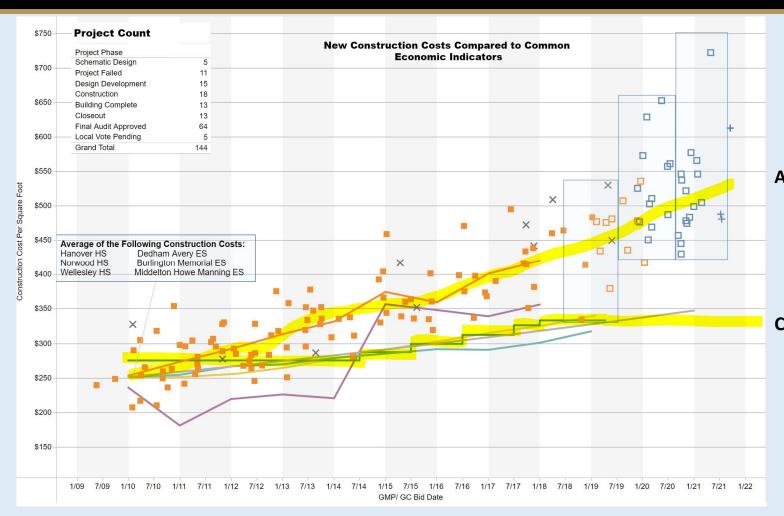


The MSBA funding assistance program includes various cost caps that are applied **before the reimbursement rate** is taken into effect, including:

- Construction costs exceeding \$333/eligible SF will not be reimbursed.
 - (Eligible SF determined based off of Initial Space Summary, based off of # students)
 - o Note: MSBA may increase this at future board meetings prior to August 2021.
- FFE&T costs over \$2400/student will not be reimbursed.
 - Enrollment options are 1250-1722 students, so the cap ranges from \$3M \$4.133M.
- Soft costs may not exceed 20% of Construction Costs.
- Costs related to site work may not exceed 8% of Direct Building Construction Costs.
- Costs related to OPM Basic Services may not exceed 3.5% of Construction Costs.
- Costs related to Designer Basic Services may not exceed 10% of Construction Costs.

MSBA Caps Construction Costs @ \$333/sf 🦻





Note: MSBA reimburses percentage of \$333/SF

Average cost/SF

Gap is increasing over time

Current cap (\$333/SF)

MSBA Reimbursement Rate



Maximum Grant, Project Example

Example: Somerville High School Project

• Estimated Total Project Cost: \$255,982,704

• Reimbursement Rate: 75.29%

Maximum MSBA Grant: \$123,963,307

• "Effective" Reimbursement rate: <u>48.4%</u> (if all budgeted costs are incurred and eligibility maintained)

MSBA Submittal



Preliminary Design Program

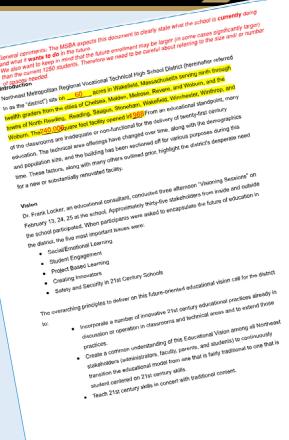
- Introduction
 - Overview, Schedule
- Education Plan
 - Initial Space Summaries (5 different enrollments)
- Existing Conditions Assessment
- Preliminary Conceptual Options
 - Preliminary Evaluation Matrix
- Appendix

Education Plan



Highlights

- Flexibility for different learning styles including Project-Based Learning
- 21st Century Learning Environments
- Small Learning Communities with Career Clusters
- Shops in proximity to Academic classrooms
- Safety & secure access, especially for public access shops
- Increase from 16 to 19 Career Tech programs



Space Summaries



Enrollments:

1250 students (current) *315,000 sf*

1400 students 343,000 sf

1600 students 383,000 sf

1660 students *393,000 sf*

1722 students 404,000 sf

Proposed Space Sui	mmary -	High S	chools						ligit oction
						Ei	nrollmen	t: 1,250	students
Northeast Metro Tec	ch	Existing Con	ditions	Existi	ing Guidelines		Da	Man	Enter Submittal
ROOM TYPE	ROOM NFA ¹	#OF RMS	area totals	ROOM NFA ¹	area totals	ROOM NFA ¹	1	area totals	uidelines am & Space Standard Guidelines) Comments
CORE ACADEMIC SPACES (List classrooms of different sizes separately)			28,840						
Classroom - General			3,210		605			44,530	
Teacher Planning	797	26	20,710					44,530	
			20,710		(2,475)	850	33	20.45	
Small Group Seminar (20-30 seats) Science Classroom / Lab					(200)	100	33		825 SF min - 950 SF max
Prep Room	1,340	1	1.340			500	3	3,300	
	280	1			2,880	1,440	7	1,500	
Science Classrooms incl STEM	814	8	280		400	200	7	10,080 3	x85% ut=20 Seats-1 per/day/student
Central Chemical Storage Rm	0	0	6,510				-	1,400	
CIAL EDUCATION		-	0		-	200			
ist classrooms of different sizes separately)			2,900		-3,910	200	1	200	
elf-Contained SPED								9,060	
elf-Contained SPED Toilet					(5.700)	000			
source Room - 124E,127C	445				(360)	950	6	5,700 825-	950 SF equal to surrounding classrooms
nall Group Room / Conf Room - 124D	115	2	230		500	60	6	360	
7,0011 - 1240	160	1	160			500	3	1,500 1/2 sk	20 Cont. Ol
					500	500	3	1,500 1/2 50	

Highlights:

Classroom, Science Labs- Sizes & Quantities as per MSBA stds. & Ed Plan requirements

750 seat Auditorium (vs. Cafetorium)

12,000 sf Gymansium (vs. 8,100 sf); no Pool

Cafeteria sized for 3 seatings

50% larger Library/ Media Center (4,500+ vs. 3,000 sf)

Matrix of Options

Northeast Metro Tech



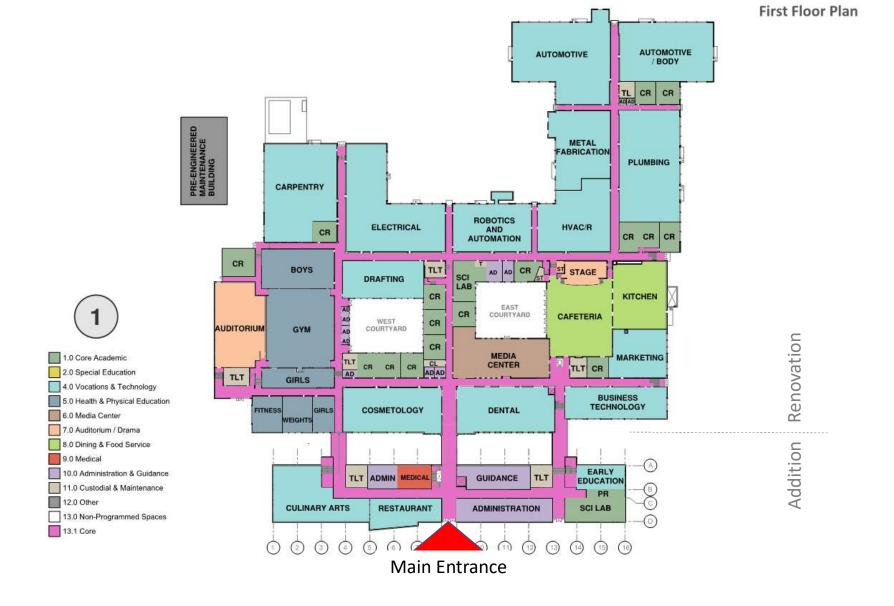
Matrix of Options DRAFT

	Updated:									
	D R A F T 7.22.2020	100	50 MS			Families of Conce	ptual Options	- 10	300	
	Families of Options:	s: A		ı	3		C	D		
	279	MSBA Required	Renovation	Add/Reno		Ne	w Construction O	New Construction Off-Site		
	Enrollment	Base Repair	A.1	B.1	B.2	C.1	C.2.1	C.3.1	C.2.A	?D.1?
a.	1,250 Students	doesn't address any educational deficiencies	Х	B.1a	B.2a	C.1a	C.2.1a	C.3.1a	C.2.Aa	D.1a
b.	1,400 Students	X	X	B.1b	B.2b	C.1b	C.2.1b	C.3.1b	C.2.Ab	D.1b
c.	1,600 Students	X	X	B.1c	B.2c	C.1c	C.2.1c	C.3.1c	C.2.A €	D.1c
d.	1,660 Students	X	X	B.1d	B.2d	C.1d	C.2.1d	C.3.1d	C.2.Ad	D.1d
e.	1,722 Students	X	Х	B.1e	B.2e	C.1e	C.2.1e	C.3.1e	C.2.Ae	D.1e

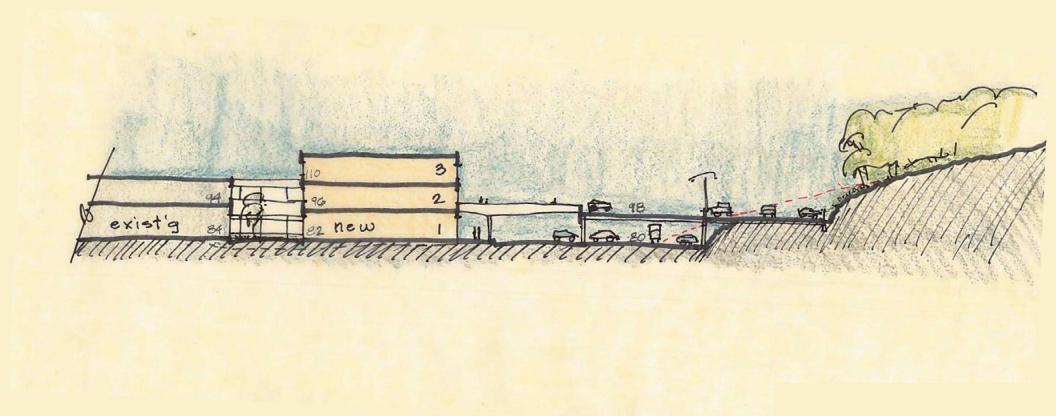




B.1

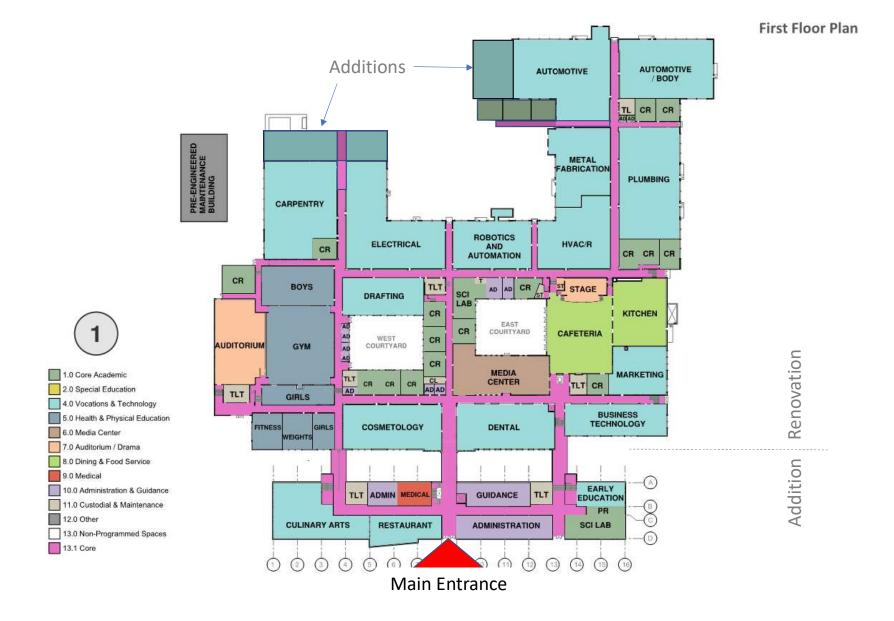


B.1

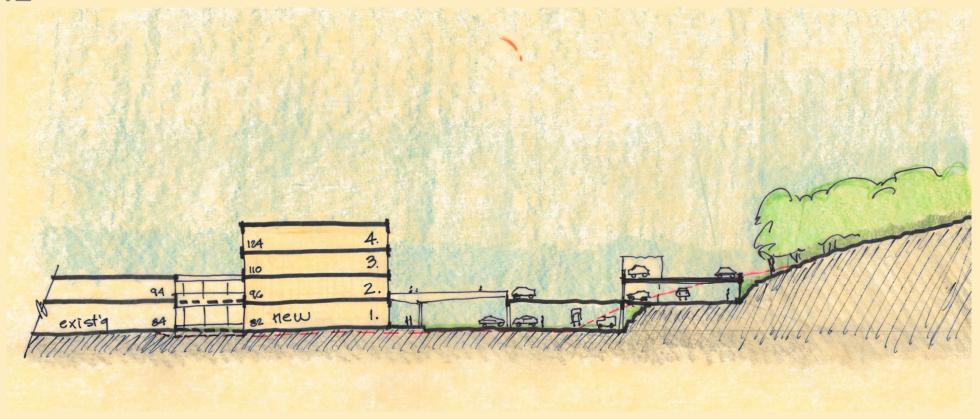


Site Section

B.2



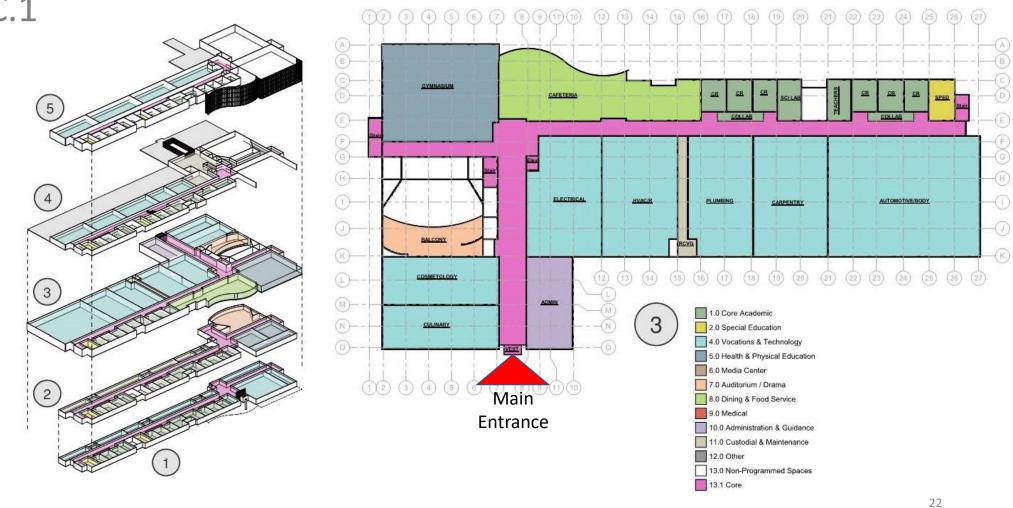
B.2











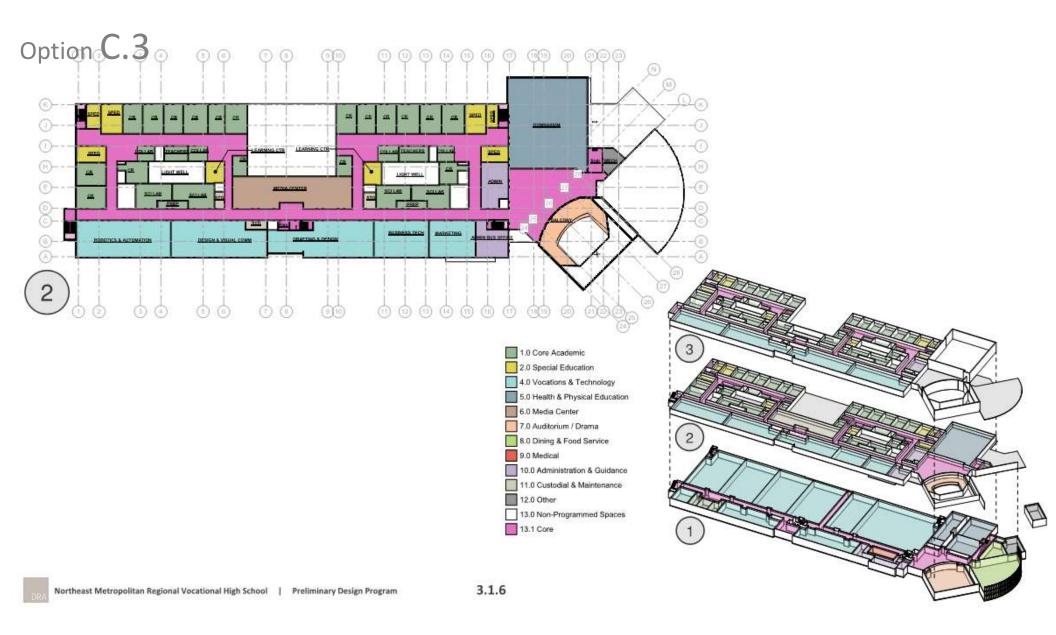












Summary of Costs

					Cost Su	mmary o	f Options			DRAFT				
Updated: UEAF 1 8-12-2828			Families of Conceptual Options											
Families of Options:			Α	A B			c							
		MSBA Required	Renovation	Add/Reno					New Construction On-Site					
Enrollment	Base Repair	A.1	B.1		B.2		C.1		C.2		C.3			
-				Range of Costs		Range of Costs		Range of Costs		Range of Costs		Range of Costs		
				low	/ri <u>ख</u> /r	low	hi <u>a</u> h	low	hi <u>c</u> ah	low	hi <u>a</u> h	10111	hi <u>c</u> ph	
	Construction Cost	\$94.9 M		\$150 -	\$183 M	\$151	- \$184 M	\$168 -	\$197 M	\$171	\$201 M	\$175 -	\$202 M	
1,250 Students	PROJECT COST	\$115 M	X	\$195 -	\$247 M	\$196 -	\$249 M	\$210 -	\$256 M	\$214 -	\$261 M	\$218 -	\$263 M	
	Construction Cost			\$166 -	\$203 M	\$167	- \$204 M	\$183 -	\$215 M	\$186	\$219 M	\$190 -	\$220 M	
1,400 Students	PROJECT COST		X	\$216 -	\$275 M	\$217 -	\$276 M	\$229 -	\$279 M	\$233 -	\$284 M	\$237 -	\$286 M	
	Construction Cost					\$191	- \$233 M	\$204 -	\$239 M	\$208	\$244 M	\$211 -	- \$245 M	
1,600 Students	PROJECT COST		X			\$248 -	\$315 M	\$255 -	\$311 M	\$260 -	\$317 M	\$264 -	\$319 M	
	Construction Cost					\$197	- \$240 M			\$213	\$250 M	\$217 -	- \$251 M	
1,660 Students	PROJECT COST		X			\$256 -	\$324 M			\$267 -	\$326 M	\$271 -	\$327 M	
	Construction Cost					\$203	- \$248 M			\$219	\$257 M	\$223 -	\$258 M	
1,722 Students	PROJECT COST		X			\$264 -	\$335 M			\$\$274 -	\$335 M	\$278 -	\$336 M	

Preliminary Evaluation of Options

Preliminary Evaluation Matrix - Northeast Metro Tech - Concept Options - WORKING DRAFT



Updated:	700						E	
6/22/2020			<u></u>	Concept Options				
	MSBA Required	Renovation	Add/ R	no Options		New Construction Options		
	Base Repair	Α	B.1	B.2	C.1	C.2	C.3	
Evaluation Criteria	Code Renovation							
Construction Duration:	multiple years	multiple years	3+ years	3+ years	2+ years	2+ years	2+ years	
d Plan Accomodation Compliance w/ Vision	doesn't address any educational deficiencies	not large enough to address space needs	difficult to accommodate Ed Plan; no Small Learning Communities; poor adjacencies of shops to academic spaces	difficult to accommodate Ed Plan; no Small Learning Communities; poor adjacencies of shops to academic spaces	good Ed Plan conformance; good adjacencies of CTE and academic spaces; no expansion potential; cannot accommodate highest enrollment	fair Ed Plan conformance with Small Learning Communities; uneven distribution of CTE shops; some flexibility and expansion potential	best Ed Plan conformance with Small Learning Communities, adjacencies & project spaces; some flexibility; limited expansion potential	
Project Cost Reimbursable Cost Femporary Costs Jong-term Value			high temporary costs; structrure parking required; slightly higher reimbursement for renovation	high temporary costs; structrured parking required; slightly higher reimbursement for renovation	temporary sewer relocation required; tall retaining walls required;	high sitework costa	highest blasting & site development (roadwork, utilities) costs; highest long-term value	
Disruption mpact on Students Construction Duration Phasing			phased construction adjacent to occupancy; long construction schedule; requires temporary parking	phased construction adjacent to occupancy; long construction schedule; requires temporary parking	some impact to adjacent occupancy; service and utility interruptions	minimal impact to adjacent occupancy; loss of athletic fields during construction; shortest building construction schedule	virtually no impact to existing occupancy; significant sitework requires early construction packages	
elexibility Enrollment Accommodation Expansion Potential			limited flexibility; limited expansion potential; doesn't accommodate higher enrollments	limited flexibility; limited expansion potential; can accommodate higher enrollments	limited flexibility; limited expansion potential; can't accommodate highest enrollments	some flexibility; limited expansion potential; can accommodate higher enrollments	good flexibility; limited expansion potential; can accommodate higher enrollments	
Operating Costs Maintenance			most renovation areas will have limited envelope improvements not all existing utilities will be replaced with new; parking garage has limited longevity	most renovation areas will have limited envelope improvements; not all existing utilities will be replaced with new; parking garage has limited longevity	all new construction & MEP systems; good solar orientation, good thermal envelope	all new construction & MEP systems; good thermal envelope	all new construction & MEP systems; best thermal envelope/ compact foortprint	
site Access Safety & Security Circulation			existing car & bus separation and service access; limited parking be event entrance; limited separation of Breakheart traffic	existing car & bus separation; limited parking by event entrance; reduced service access; limited separation of Breakheart traffic	good car & bus separation; parking divides fields; convenenient visitor parking, good service access; limited separation from Breakheart traffic	good car & bus separation; convenenient visitor parking, good service access; limited separation from Breakheart traffic	new primary access road; good car & bus separation; good separation from Breakheart traffic	
inal Site layout iite amenities			all existing fields to be reconstructed within limited area; less than desirable accessibility to fields	all existing fields to be reconstructed within limited area; less than desirable accessibility to fields	New multi-purpose/soccer field, new softball field; renovated track, football, baseball fields. Some accessibility issues remain to upper fields	New track, football, & baseball fields; renovated softball & practice fields. Some accessibility issues remain to lower fields	All new and expanded athletic fields; accessibility from school is less than ideal	L eg
								4
								3
Totals		-	1					2
iotais		.,						4

