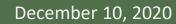
Northeast Metro Tech

Building Committee

DRA



Agenda



Northeast Metropolitan Regional Vocational High School

- SBC Vote to Approve Prior Minutes
- OPM/Designer Updates
 - Accomplishments to Date
 - PSR Update: Cost Estimates & Schedule
 - Next Steps
- SBC Vote to Approve Preferred Option & Enrollment
- SBC Vote to Approve Submission of PSR

Key Project Milestones



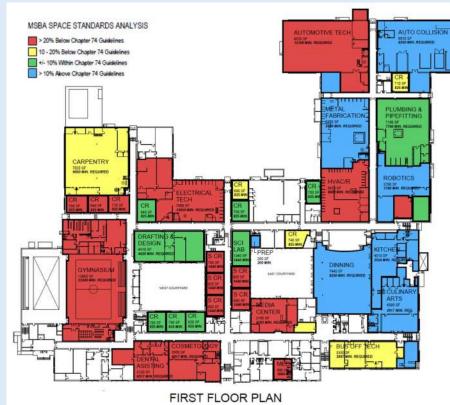
Northeast Metropolitan Regional Vocational High School

MSBA Module #2	MSBA Module #3	MSBA Module #4	MSBA Module #5
Forming the Project Team	Feasibility Study	Schematic Design	Funding the Project
AUGUST 2019 OPM Selection JANUARY 2020 Designer Selection	JANUARY 2020 Begin Feasibility Study AUGUST 2020 SBC approves PDP Submit PDP to MSBA SEPTEMBER 2020 SC approves Education Plan DECEMBER 2020 SBC approves PSR Submit PSR to MSBA JANUARY 2021 MSBA FAS Meeting FEBRUARY 2021 MSBA BOD approves PSR	JANUARY 2021Begin Schematic DesignJUNE or JULY 2021SBC approves SD/DESE design packageJULY 2021Submit SD/DESE to MSBA MSBA FAS MeetingAUGUST 2021MSBA BOD approves project scope & budget	LATE DECEMBER 2021 Local funding approval deadline



Feasibility Study Accomplishments:

• Existing Building Studies Complete





4



Feasibility Study Accomplishments:

- Existing Building Studies Complete
- Site & Traffic Investigations Completed
- Educational Visioning \rightarrow Educational Plan \rightarrow **Develop Preliminary Options**





Feasibility Study Accomplishments:

- Existing Building Studies Complete
- Site & Traffic Investigations Completed
- Educational Visioning → Educational Plan → Develop Preliminary Options





(Add/Reno)

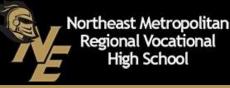
(New)





OPTION C.3 (New)

6

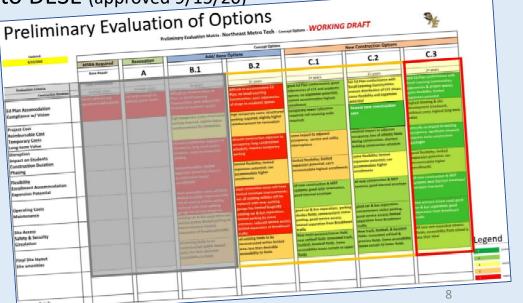


Feasibility Study Accomplishments:

- Existing Building Studies Complete
- Site & Traffic Investigations Completed
- Educational Visioning \rightarrow Educational Plan \rightarrow Develop Preliminary Options
- Chapter 74 Viability Document Submission to DESE (approved 9/15/20)
- Submitted PDP to MSBA: 8/14/2020
- MSBA Accepted Auditorium Space



- Existing Building Studies Complete
- Site & Traffic Investigations Completed
- Educational Visioning \rightarrow Educational Plan \rightarrow Develop Preliminary Options
- Chapter 74 Viability Document Submission to DESE (approved 9/15/20)
- Submitted PDP to MSBA: 8/14/2020
- MSBA Accepted Auditorium Space
- Evaluated Preliminary Options
- Identified & Refined Preferred Option



Northeast Metropolitan Regional Vocational High School



- Existing Building Studies Complete
- Site & Traffic Investigations Completed
- Educational Visioning \rightarrow Educational Plan \rightarrow Develop Preliminary Options
- Chapter 74 Viability Document Submission to DESE (approved 9/15/20)
- Submitted PDP to MSBA: 8/14/2020
- MSBA Accepted Auditorium Space
- Evaluated Preliminary Options
- Identified & Refined Preferred Option
- Compiled PSR
- Ready to Submit PSR to MSBA



Northeast Metropolitan Regional Vocational High School

MSBA Process



Northeast Metropolitan Regional Vocational High School

Preferred Schematic Report

Goals:

- Summarize Process & Conclusions of the Preliminary Evaluation of Alternatives
- Substantiate & Document the Recommendation of a Preferred Solution

MSBA Process



Northeast Metropolitan Regional Vocational High School

Preferred Schematic Report

Content:

- Introduction
- Educational Program- updated
 - Space Summary Form- updated

Final Evaluation of Alternatives

- Construction Cost Estimates
- Preferred Solution
 - Site Plan, Floor Plans, Massing Diagrams
 - Preliminary LEED scorecard
 - Schedule
- Local Actions & Approvals

Matrix of Options

Northeast Metro Tech



Matrix of Options DRAFT

	Updated:	-				E.				
	D R A F T 7.22.2020	Families of Conceptual Options								
	Families of Options:		A B		3	c			D	
MSBA Required			Renovation Add/F		Reno New Construction O		n-Site New Constru		uction 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	Х	Х	B.1b	B.2b	C.1b	C.2.1b	C.3.1b	C.2.Ab	D.1b
c.	1,600 Students	Х	Х	B.1c	B.2c	C.1c	C.2.1c	C.3.1c	C.2.Ac	D.1c
d.	1,660 Students	Х	Х	B.1d	B.2d	C.1d	C.2.1d	C.3.1d	C.2.Ad	D.1d
e.	1,722 Students	Х	Х	B.1e	B.2e	C.1e	C.2.1e	C.3.1e	C.2.Ae	D.1e









Option B.2







Preliminary Evaluation of Options Criteria

Educational: Plan Accommodation, Compliance with Educational Vision

Costs: Project Cost, Reimbursement, Temporary Costs, Long-Term Value

Disruption: Impact, Phasing, Construction Duration

Flexibility: Design, Enrollment Accommodation, Expansion Potential

Maintenance: Operating Costs, Longevity

Site: Safety & Security, Access, Amenities

Preliminary Evaluation of Options

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

positive / most advantageor

negative / least advantageou

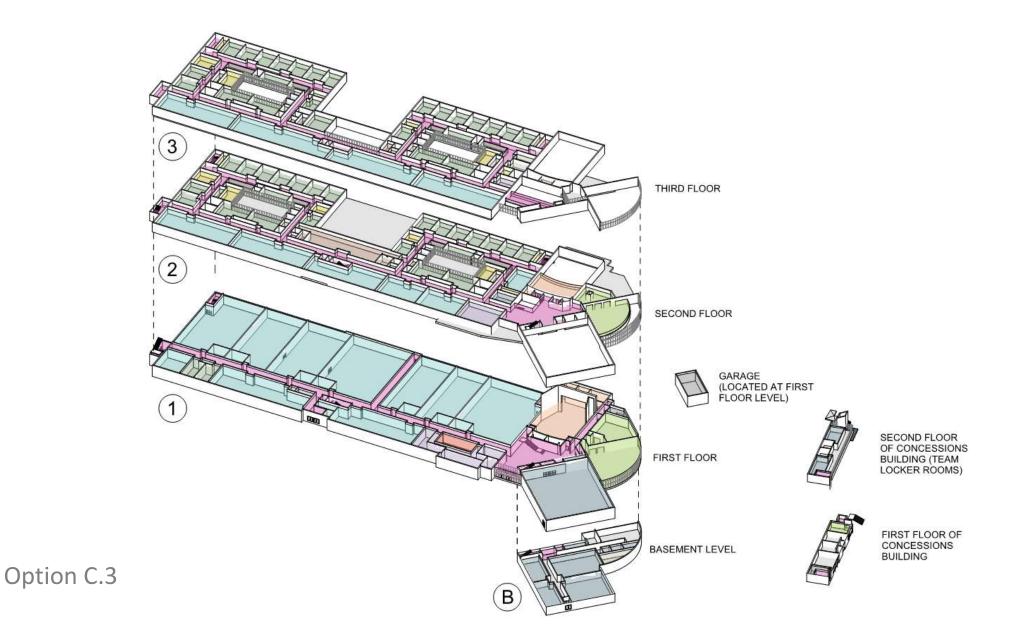
neutral

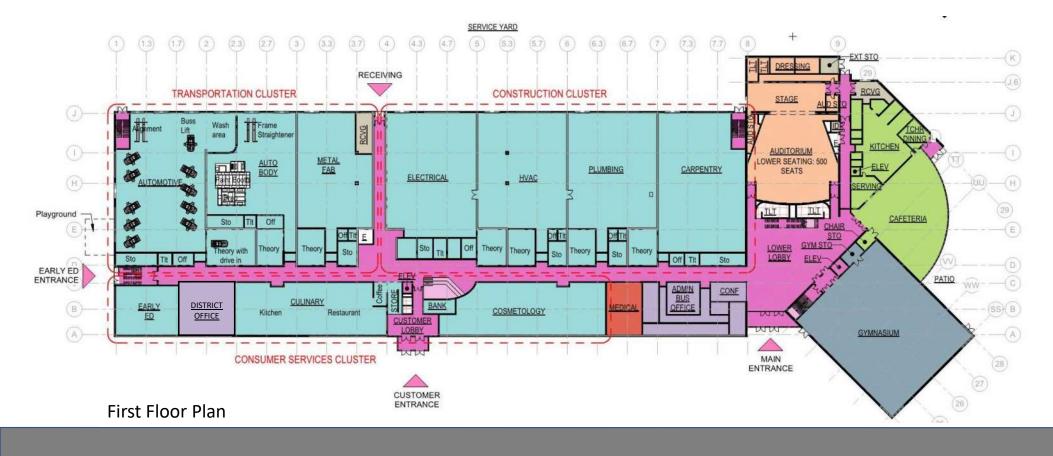
6/22/2020	Concept Options								
	MSBA Required	Renovation	Add/ Reno Options		New Construction Options			1	
	Base Repair	Α	B.1	B.2	C.1	C.2	C.3		
Evaluation Criteria	Code Renovation								
Construction Duration:	multiple years	multiple years	3+ years	3+ years	2+ years	2+ years	2+ years		
Ed Plan Accomodation Compliance w/ Vision	ioesn't address any ducational deficiencies	not large enough to address space needs	difficult to accommodate Ed Plan; no Small Learning Communities; poor adjacencles 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	sest Ed Plan conformance with imall Learning Communities, idjacencies & project spaces; iome flexibility; limited expansion potential		
Project Cost Reimbursable Cost Temporary Costs Long-term Value			high temporary costs; structrured 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;	lowest new construction cost	highest blasting & site development (roadwork, utilities) costs; highest long-term value		
Disruption Impact 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	rirtually no impact to existing occupancy: significant sitework requires early construction packages		
Flexibility Enrollment Accommodation Expansion Potential			limited flexibility; limited expansion potential; doesn't accommodate higher onroliments	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	pood flexibility; limited expansion potential; can eccommodate 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	III new construction & MEP systems; best thermal envelope/ compact foortprint		
Site Access Safety & Security Circulation			existing car & bus separation and service access; limited parking by 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	tew primary access road; good car & bus separation; good reparation from Breakheart raffic		
Final Site layout Site 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 ields; accessibility from school is ess than ideal	Leg	
								5	
								4	
								3	
Totals		-						2	





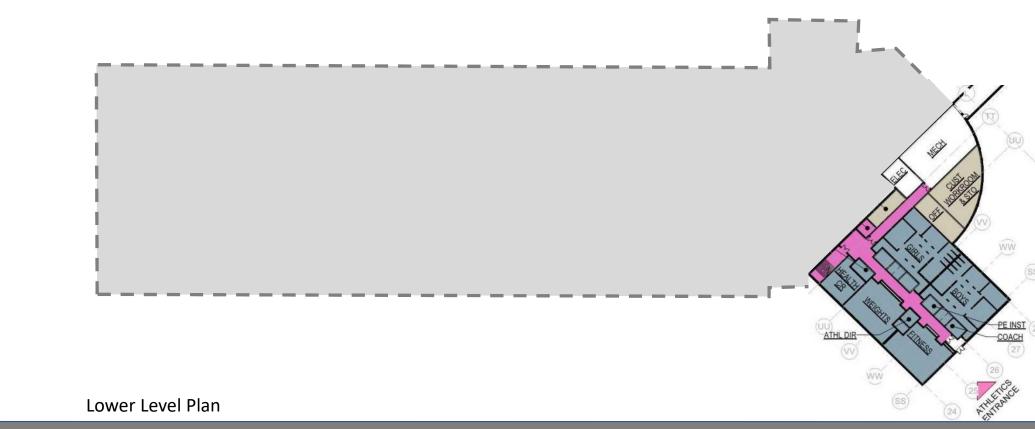


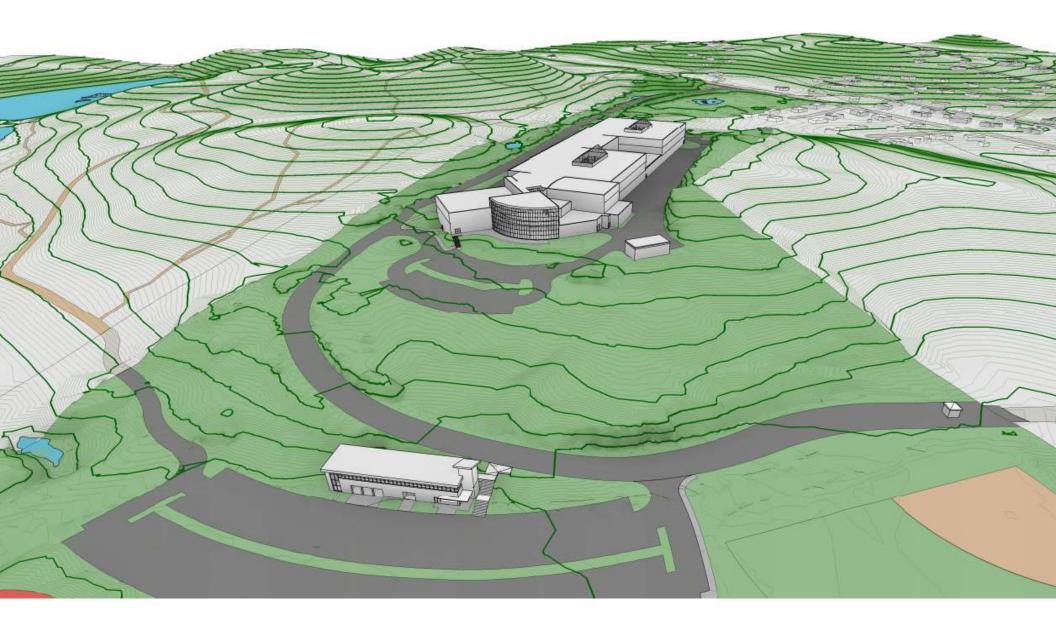


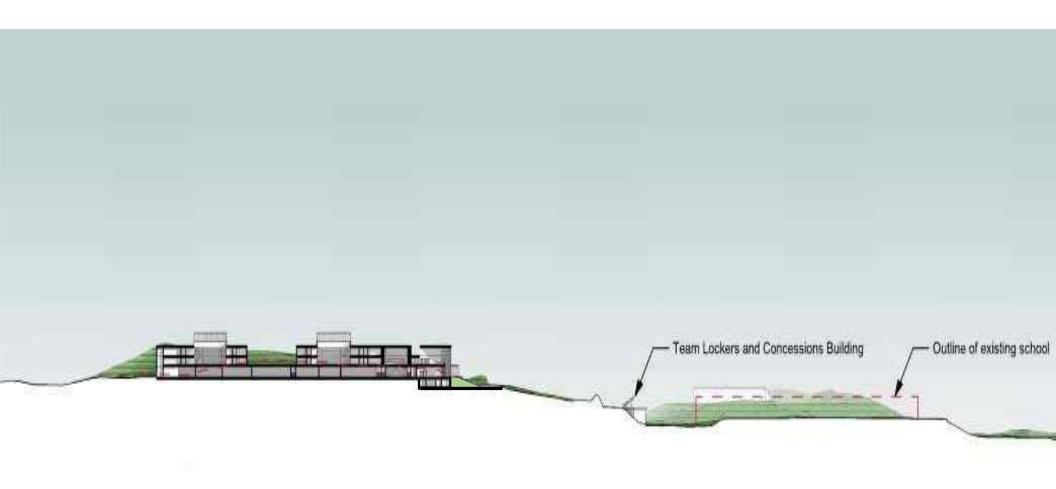














Lower level Locker Rooms

MSBA Process



Northeast Metropolitan Regional Vocational High School

Preferred Schematic Report

Content:

- Introduction- Summary
 - Response to PDP Comments
- Educational Program- update
 - Space Summary Form- update
- Final Evaluation of Alternatives
 - Construction Cost Estimates
- Preferred Solution
 - Site Plan, Floor Plans, Massing Diagrams
 - LEED scorecard
 - Schedule
- Local Actions & Approvals

MSBA Process



Northeast Metropolitan Regional Vocational High School

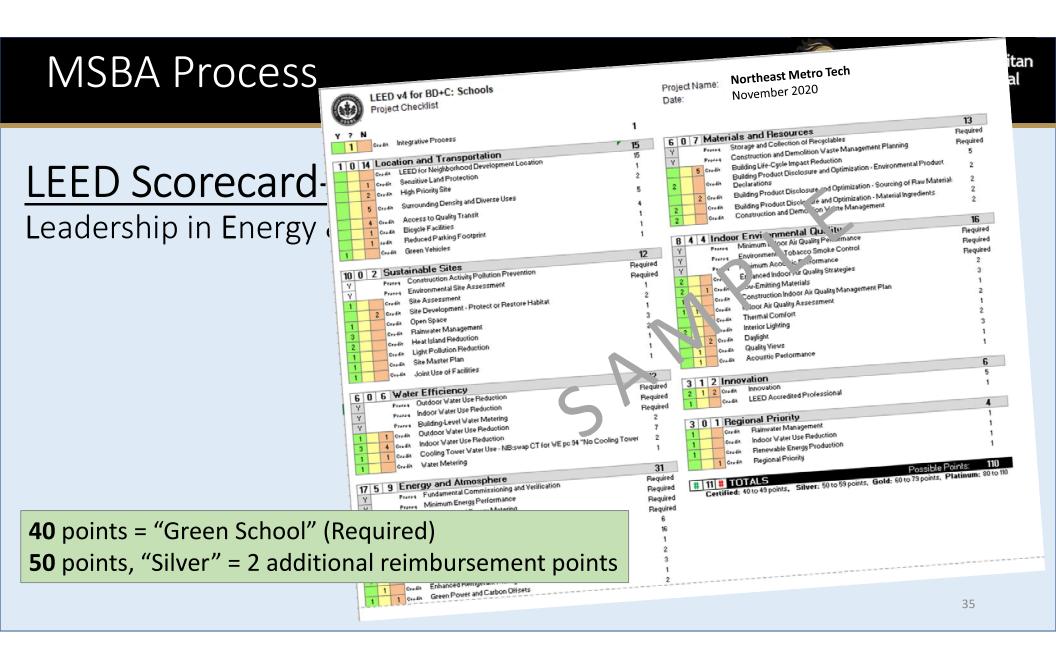
Preferred Schematic Report

Content:

- Introduction- Summary
 - Response to PDP Comments
- Educational Program- update
 - Space Summary Form- update
- Final Evaluation of Alternatives

Construction Cost Estimates

- Preferred Solution
 - Site Plan, Floor Plans, Massing Diagrams
 - LEED scorecard
 - Schedule
- Local Actions & Approvals



Summary of Costs

Enrollment		B.2	C.1	C.2	C.3
1,250	Construction Cost	\$180.9 M	\$207.0 M	\$200.8 M	\$208.8 M
students	Project Cost	\$244.4 M	\$270.3 M	\$262.4 M	\$272.6 M
1,400	Construction Cost	\$196.2 M		\$215.7 M	
students	Project Cost	\$264.7 M	\$288.7 M	\$281.6 M	\$291.4 M
1,600	Construction Cost	\$211.1 M	\$243.5 M	\$236.6 M	\$243.5 M
students	Project Cost	\$284.6 M	\$317.4 M	\$308.7 M	\$317.4 M
1,660	Construction Cost				
students	Project Cost	\$291.7 M	\$322.7 M	\$315.6 M	\$324.5 M
1,722	Construction Cost			\$247.5 M	
students	Project Cost	\$300.8 M	\$329.5 M	\$322.7 M	\$331.4 M

Summary of Costs

Updated:		Cost Summar	y of Options	DRAFT						
Updated: URAFI 8 12 2020	Families of Conceptual Options									
Families of Options:	A	В		С						
	MSBA Required Renovation	n Add/Reno		New Construction On-Site						
		B.2	C.1	C.2	C.3					
1,600 students	Construction Cost	\$211.1 M	\$243.5 M	\$236.6 M	\$243.5 M					
	Project Cost	\$284.6 M	\$317.4 M	\$308.7 M	\$31 7.4 M					
4 700	truction Cost DIECT COST X		203 - \$248 M 64 - \$335 M	\$219 - \$257 M \$\$274 - \$335 M	\$223 - \$258 M \$278 - \$336 N					

Option C.3 Potential Construction Schedule



<u>Phase 1: Site Enabling Work (tree clearing, ledge removal)</u> Summer – Winter 2022

Phase 2: Construct New School Spring/Summer 2023 – Summer 2025

Phase 3: Demolish Existing School & Construct New Fields/Outbuildings Summer 2025 – Summer 2026

MSBA Financial Closeout: Fall 2027

Preferred Schematic

Process

Upcoming Meetings:

- Weekly Project Team
- Bi-Weekly Working Group
- Monthly Building Committee
- Community Meetings
- Conservation Commission
- Geotechnical Investigation
- Local Officials- Building, Fire, Traffic
- Security Administration, First Responders
- MSBA- Facilities Assessment Subcommittee



39



Agenda



Northeast Metropolitan Regional Vocational High School

- SBC Vote to Approve Prior Minutes
- OPM/Designer Updates
 - Accomplishments to Date
 - PSR Update: Cost Estimates & Schedule
 - Next Steps
- SBC Vote to Approve Preferred Option & Enrollment
- SBC Vote to Approve Submission of PSR

Upcoming Challenges



Northeast Metropolitan Regional Vocational High School

Upcoming Challenges/Opportunities:

- Public Outreach/Support
- MSBA Facilities Assessment Subcommittee (January 2021)
- MSBA Board of Directors PSR Approval (February 2021)
- Development of Schematic Design (SD) level plans & specifications
- Submit Schematic Design & DESE Package to MSBA/DESE (June/July 2021)
- MSBA Project Scope & Budget Approval (August 2021)
 - Continue to justify as much square footage as possible
 - Work within MSBA grant program to maximize potential reimbursement
- Secure Local Funding (December 2021 deadline)
- Procure Construction Manager for Preconstruction Services

