PREFERRED SOLUTION PREFERRED SOLUTION SPACE SUMMARY

3.3.4 - b



Preliminary Notes to the Initial Space Summary

July 8, 2020

Northeast Metro Tech

In the absence of an MSBA template for Career Technical Vocational Schools, DRA has taken the liberty to modify the MSBA Guidelines column of the "Proposed Space Summary- High Schools" template in the following ways:

 In addition to the cell for "Proposed Student Capacity / Enrollment" (highlighted in yellow), a cell has been added for "Full- Time Equivalent (FTE) Academic Students". This modification is required in order to more accurately reflect the unique schedule of Northeast Metro Tech (and most all other CTE schools) and to more appropriately determine the academic space requirements.

At Northeast Metro Tech, students have an alternating schedule consisting of one week in traditional academic subjects (English, Math, Social Studies, Science, etc.) and one week in their Career Technical program ("shop"). During the academic week, students have a typical six-period day. During their shop week they spend the entire day in their shop, (except for Gym, lunch and other occasional electives). Therefore, at any one time approximately one half of the student population is in academic classrooms and one half is in shop.

At Northeast Metro Tech, the student population is divided approximately in half by pairing 9th with 11th graders, and pairing 10th with 12th graders. This usually results in slightly unequal groupings, so the largest cohort is typically slightly more than fifty percent of the total enrollment. For the purposes of this Space Summary form, we have calculated the **Full-Time Equivalent (FTE)** academic population to be equal to **53%** of the total enrollment.

This added cell has been highlighted in a tan color.

- The Space Summary form has also been modified by substituting this newly created "Full-Time Equivalent" academic enrollment figure for the "Proposed enrollment" in the formula contained in the cells related to the following academic spaces, including:
 - General Classrooms Teacher Planning spaces Science Labs Prep Rooms Self-Contained SpEd Rooms Self-Contained SpEd Toilet Rooms Resource Rooms Small Group Rooms Library Reading Room

In each of these rows the cell containing the substitution has been highlighted with a tan color.

3. The "Vocations & Technology" category has also been modified to more accurately reflect the nature of a Career Technical/ Vocational school. The formula for the line for "Technology/ Engineering Rooms" has been deleted (Number of Rooms = 0). In its place is an itemized listing of the individual career technical programs that Northeast Metro Tech will be offering. In the column "Room NFA" the cell contains a link to a formula from the Massachusetts Department of Elementary and Secondary Education, Chapter 74 Manual guidelines for area per pupil for each CTE program.

In the column listing the "# of rooms" the number "1" has been added to reflect one "shop" for each program (this represents a **total** space allowance for each program; this will ultimately be sub-divided among shop space, storage, office, etc.).

The total student population has been allocated to each CTE program according to the projected enrollment distribution recently approved by the Northeast Metro Tech School Committee.

These cells that have been added or modified are highlighted in tan color cells.

Other than the above, no other modifications have been made to the "MSBA Guidelines" section of the Proposed Space Summary Form.

Proposed Space Summary - High Schools

								PROPOSED	
Northeast Metro Tech	Ex	isting Condit	ions	Existing	g to Remain/Re	enovated	New		
ROOM TYPE	ROOM NFA ¹	# OF RMS	area totals	ROOM NFA ¹	# OF RMS	area totals	ROOM NFA ¹	# OF RMS	area
ORE ACADEMIC SPACES			29,600			0			
(List classrooms of different sizes separately)									1
Classroom - General	797	26	20,710			0	850	36	
Teacher Planning/ Workrooms 136, 136A, 210	253	3	760			0	900	4	
Small Group Seminar/ Collaborative Space						0	500	4	
Science Classroom / Lab	1,340	1	1,340	-		0	1,440	8	
Prep Room	280	1	280			0	200	8	
Science Classrooms incl STEM	814	8	6,510			0			
Central Chemical Storage Rm	0	0	0				200	1	
Language Lab/ Distance Learning	0	0	0				900	1	
PECIAL EDUCATION			2,900			0			
(List classrooms of different sizes separately)									T
Self-Contained SPED						0	950	0	
Self-Contained SPED Toilet						0	60	0	1
Resource Room - 124E,127C Learning Center	115	2	230			0	850	4	
Small Group Room - 124D	160	1	160			0	500	4	
Tutoring/ Assessment							150	4	
SpEd Office - 124A,124B,124C,126B,127B Dir+2 asst.	206	5	1,030			_	150	3	
SpEd Conference Room	200		1,000				320	1	
SpEd Classrooms - 126A,127A	740	2	1,480			-	020		-
RT & MUSIC			0			0			
Art Classroom - 25 seats						0		0	
Art Workroom w/ Storage & kiln						0		0	
Band - 50 - 100 seats						0		0	
Chorus - 50 - 100 seats						0		0	
Ensemble						0		0	
Music Practice						0		0	
Music Storage						0		0	
OCATIONS & TECHNOLOGY			94,540			0			1:
Technology/Engineering Rooms- PLTW						0	1,440	1	
Automotive Collision Repair			9,190			5	6,783	1	
Automotive Technology			10,090				12,833	1	
Business Office Technology (2200sf min)			4,240				2,567	1	+
Carpentry			8,520				10,500	1	+
Cosmetology			3,920				5,833	1	+
Culinary Arts			5,120				5,833	1	+
· · · · · ·			1,620				6,583	1	+
Dental Assisting Design & Visual Communications			7,170				5,133	1	+
Drafting & Design			4,460				4,473	1	
Early Childhood Education (1500sf min)			2,800				2,000	1	-
Electrical Technology			7,790				12,600	1	+
Health Assisting			4,160				5,833	1	
HVAC Technology			6,120				9,333	1	
Metal Fabrication			7,120				7,467	1	
Plumbing & Pipefitting			8,160				8,400	1	
Robotics & Automation			4,060				5,133	1	
new-Biotechnology							5,133	1	
new-Marketing (2200sf min)							2,493	1	
new-Medical Assisting							5,833	1	+
EALTH & PHYSICAL EDUCATION			14,150			0			2
Gymnasium - 174	8,110	1	8,110			0	11,800	1	<u> </u>
PE Alternatives - 171 Fitness Center & Weights	1,140	1	1,140		1	0	1,500	2	1

3,750 3 2,550 -29 300 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - -6 (5,700) -6 (360) 1 1,900 1 500 -6 (360) -1 500 -2 (2,400) -2 (300) -1 (1,500) -1 (1,500) -1 (500) -1 (500) -1 (500) -1 0 -1 0 -1 0 0 - </th <th>NFA1</th>	NFA1
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Total

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2

OF RMS area totals

50,420

30,600

3,600

2,000 11,520

1,600

200 900

6,770

3,400 2,000

600 450

320

0

126,207 1,440

6,783

12,833

2,567

10,500 5,833

5,833

6,583 5,133

4,473 2,000

12,600

5,833

9,333

7,467 8,400 5,133

5,133 2,493

5,833

3,000 300

25,160 11,800

ROOM

NFA¹

Students

		1,000	
	Date:		Preferred Schematic Report
(ref	fer to MSRA F	MSBA Gui Educational Program	delines m & Space Standard Guidelines)
-		-	e Summary for highlighted revisions
ROOM			
NFA ¹	# OF RMS	area totals	Comments
NFA			
		46,670	
850	33	28,050	825 SF min - 950 SF max
100	33	3,300	
500	4	2,000	
1,440	8	11,520	3 x85% ut=20 Seats-1 per /day/student
200	8	1,600	
200	1	200	
200	1	200	
		9,060	
		-	
950	6		825-950 SF equal to surrounding classrooms
60	6	360	
500	3	1,500	
500	3	1,500	1/2 size Genl. Clrm.
		6,700	
1,200	2	2,400	Assumed use - 25% Population - 5 times/week
150	2	300	Assumed use OFP(Desulation - 5 times to all
1,500 1,500	1	1,500 1,500	Assumed use - 25% Population - 5 times/week
200	1	200	
75	4	300	
500	1	500	
		125,857	Assumed use - 100% Population - 5 times/week; 825 SF -
1,440	1	1,440	2,000 SF
6,783	1	6,783	
12,833 2,567	1 1	12,833 2,567	
10,500	1	10,500	
5,833	1	5,833	
5,833	1	5,833	
6,583	1	6,583	
5,133	1	5,133	
4,473	1	4,473	
1,650 12,600	1 1	1,650 12,600	
5,833	1	5,833	
9,333	1	9,333	
7,467	1	7,467	
8,400	1	8,400	
5,133	1	5,133	
5,133	1	5,133	
2,493 5,833	1 1	2,493	
5,833		5,833	
		25,160	Excess PE Spaces Policy
12,000	1	12,000	
3,000	1	3,000	
300	1	300	

1,600

Proposed Space Summary - High Schools

Northeast Metro Tech	Existing Conditions					
ROOM TYPE	ROOM NFA ¹	# OF RMS	area totals			
Locker Rooms - Boys / Girls w/ Toilets	3,940	1	3.04			
Satelite Locker Rooms	3,940	1	3,94			
Phys. Ed. Storage & Closets - 172G,172H, 172N	115	2	23			
	140	1				
Athletic Director's Office - 172C (including S/T) PE Instructor & Coach Offices w/ Shower & Toile			14			
	115	2	23			
Health CR/ Team Meeting Room	0.40	4	0.4			
Trainer 172I	240	1	24			
IEDIA CENTER	0.450	4	2,910			
Media Center / Reading Room 174A	2,150	1	2,15			
Workroom 174C	400	1	40			
Office, Conf.,printer- 174B,174D, 174E	120	3	36			
Small Group Rooms						
Project Room/ TV studio/ Storage						
UDITORIUM / DRAMA			1,630			
(Auditorium) Presentation/ Performance Space						
Stage - 119B	1,510	1	1,51			
Auditorium Storage - 119T	120	1	12			
Make-up / Dressing/ Green Rooms						
Controls / Lighting / Projection						
INING & FOOD SERVICE			12,280			
Cafeteria / Student Lounge / Break-out - 119A	7,440	1	7,44			
Chair / Table Storage - 119S,119U, 119V	300	1	30			
Scramble Serving Area - 119P	420	1	42			
Satelite Serving Area						
Kitchen - 119C, 119D, 119E, 119F, 119G, 119H,	4,120	1	4,12			
Satelite Kitchen	4,120	•	7,12			
Staff Lunch Room		0				
		0	000			
IEDICAL Madical Suita Tailata 179D 1795	45	2	800			
Medical Suite Toilets - 178D, 178E	45	2	9			
Nurses' Office / Waiting Room 178A, 178B	650	1	65			
Interview/ Exam Room	0	0				
Resting	30	2	6			
DMINISTRATION & GUIDANCE			7,410			
General Office / Waiting / Tlt 175,175A,175H, 12	870	1	87			
Teachers' Mail and Time Room 175K ??	240	1	24			
Duplicating Room						
Records Room (Vault) 175E	190	1	19			
Principal's Office w/ Conf. Area & Tlt - 175F, 175	360	1	36			
Principal's Secretary / Waiting - 175M	70	1	7			
Assistant Principal's Office - AP1 - 101,101B	470	1	47			
Assistant Principal's Offices - Voc.Deans,	100	_				
Academic Prog. Coordinator 175R, 175S, 133	123	3	37			
Supervisory & Paraprofessional Offices; incl: Attendance, Reception 175B, 175C, 175D, 183	155	4	62			
Department Head Offices 163B, 187A, 187B,		-				
187C,188, 189, 201A	134	7	94			
Safety Resource Officer	100	1	10			
In-House Suspension 139	340 440	1	34 88			
Conference Rooms - 175N, 180 Guidance/ Adj, Psych., Diversity Offices - 175O,	126	8	1,01			
Guidance Waiting Room - 175P	280	1	28			
Guidance Storeroom	0	0				
Career Center/ Classroom - 112	670	1	67			
Records Room						
Teachers' Work Rm, Dig.Lrn'g Mgr(w/ Media Ctr)						

				PROPOSED							
Existing	g to Remain/Re	enovated		New			Total		Differenc	ce to MSBA	Guidelines
ROOM NFA ¹	# OF RMS	area totals	ROOM NFA ¹	# OF RMS	area totals	ROOM NFA ¹	# OF RMS	area totals	ROOM NFA1	# OF RMS	area total
		0	3,145	2	6,290		2	6,290		1	(2,670
			780	2	1,560		2	1,560			
		0	300	1	300		1	300		0	(200
		0	180	1	180		1	180		0	30
		0	200	4	800		4	800		3	550
			750 180	1	750 180	+	1	750 180			
		0	100		5,200	т	1	5,200			0
		0	4,030	1	4,030		1	4,030		0	
		0	250	1	250			250		0	
			150	1	150		1	150		1	150
			107	3	320		3	320		3	320
			450	1	450		1	450		1	450
		0			10,400			10,400			0
		0	7,500	1	7,500		1	7,500		0	
		0	1,600	1	1,600		1	1,600		0	
		0	500	1	500		1	500		0	-
		0	300	2	600		2	600		0	
		0	200	1	200		1	200		0	-
		0			13,300			13,300			600
		0	4,000	2	8,000		2	8,000		1	
		0	550	1	550		1	550		0	
		0	600	1	600		1	600		0	
			300	1	300		1	300		1	300
		0	2,600	1	2,600		1	2,600		0	(300
			600	1	600		1	600		1	600
		0	325	2	650		2	650		1	-
		0			1,410			1,410			0
		0	60	2	120		2	120		1	60
		0	247	3	740		3	740		2	
		0	100	3	300		3	300		-1	(100
		0	63	4	250		4	250		-3	(450
		0			8,780			8,780			2,985
		0	800	1	8 00		1	800		0	
		0	100	1	100		1	100		0	
		0	200	1	200		1	200		0	
		0	200	1	200		1	200		0	
		0	250	1	250		1	250		0	
		0	125	1	125		1	125		0	-
		0	150	2	300		2	300		1	150
		0	150	3	450		3	450		1	150
		0	120	4	480		4	480		3	360
		0	120	7	840		7	840		7	840
		0	120	1	120		1	120		1	
		0	340	1	340		1	340		1	
		0	450 150	2 10	900 1,500		2 10	900 1,500		1	
		0	100	1	100		1	100		0	-
		0	100	1	100		1	100		0	-
			950 225	1	950 225		1	950 225		0	
		-									
										Ŭ,	
		-						 			
					800			800		0	

Students

re) see al	efer to MSBA I	Educational Program	m & Space Standard Guidelines) e Summary for highlighted revisions
ROOM NFA ¹	# OF RMS	area totals	Comments
8,960	1	8,960	5.6 sf/student total
500	1	500	
500 150	1	500 150	
250	1	250	
		5,200	
5,200	1	5,200	
		10,400	Excess Auditorium Spaces Policy
7,500	1	7,500	2/3 Enrollment @ 10 SF/Seat - 750 seats MAX
1,600 500	1	1,600 500	
300	2	600	
200	1	200	
8 000	1	12,700	A sasting 4505 second
8,000 550	1	8,000 550	3 seatings - 15SF per seat
600	1	600	
2,900	1	2,900	1600 SF for first 300 + 1 SF/student Add'l
650	1	650	20 SF/Occupant
		1,410	
60 250	1	60 250	
100	4	400	
100	7	700	
		5,795	
800	1	800	
100 200	1	100 200	
200	1	200	
375	1	375	
125 150	1	125 150	
150	2	300	
120	1	120	
450 150	1 8	450 1,200	
100	1	100	
100 550	1	100 550	
225	1	225	
800	1	800	

1,600

Proposed Space Summary - High Schools

								PROPOSED								
Northeast Metro Tech	Ex	isting Conditi	ons	Existing	g to Remain/Re	enovated		New			Total		Dif	fference	e to MSBA	Guidelines
ROOM TYPE	ROOM NFA ¹	# OF RMS	area totals	ROOM NFA ¹	# OF RMS	area totals	ROOM NFA ¹	# OF RMS	area totals	ROOM NFA ¹	# OF RMS	area totals		OOM IFA1	# OF RMS	area totals
CUSTODIAL & MAINTENANCE			9,950			0			3,950			3,950	_			1,125
Custodian's Office - 137G, 019FB	230	2	460			0	150	1	150		1	150	_		0	
Custodian's Workshop & Toilet - 137, 137G	2,240	1	2,240			0	375	1	375		1	375			0	
Custodian's Storage - 194A,194B,194C,192C,19	35	12	420			0	375	1	375		1	375			0	- 1
Recycling Room / Trash - 1190	80	1	80			0	400	1	400		1	400			0	
Receiving and General Supply - 137A, 137E	725	2	1,450			0	550	2	1,100		2	1,100			1	550
Storeroom - 137B, 137C, 137D, 137E, 137F, 01	164	7	1,150			0	1,350	1	1,350		1	1,350			0	
Network - Telecom Room & Offices - 177A, 77B, Maintenance Storage & Staff Lunch / Lounge - 1	216 439	5	1,080 3,070			0	200 0	1	200		1	200			0) -
OTHER	400	,	9,980			0	Ŭ	Ű	7,235			7,235				7,235
Other (specify): Bank 192G (Bus. Tech)	80	1	80			0	300	1	300		1	300			1	000
School Store (Bus. Tech)		_	1.5.0	-		_	300	1	300		1	300			1	
Adult Ed Offices & Storage 185, 185A, 186, 186A	90 470	5	450 470			_	450 250	1	450 250		1	450 250			1	450 250
Superintendent's Office & TIt - 178A Superintendent's Assistant	470	1	470			-	125	1	125		1	125			1	
Business Office suite, HR 175AA, 175BB, 175CC,	150	7	1,050			-	150	7	1,050		7	1,050			7	
Maintenance Garage (out-building)	<u>,</u>				_		1,800	1	1,800		1	1,800			1	,
Field Maintenance Garage & Storage (out-buildin Concession/ Public Toilets (out-building)	g)				_		1,560 1,400	1	1,560 1,400		1	1,560 1,400			1	1
Pool, Office, Storage, & Mechanical	7,930	1	7,930		-		7,930	0	0		0	0			0	
							,									
Total Building Net Floor Area (NFA)			186,150			0			258,832			258,832				7,055
Proposed Student Capacity / Enrollment									-							Full-Ti
NON-PROGRAMMED SPACES					% of GFA	0		% of GFA	129,416		% of GFA	129,418				
Other Occupied Rooms (list separately)					#DIV/0!			0%	0,0		0%	,				
					#DIV/0!			0%			0%					
					#DIV/0!			0%			0%					├ ─── ╿
					#DIV/0!			0%			0%					├ ─── !
Unoccupied MEP/FP Spaces					#DIV/0!			0%			0%					├ ──┦
Unoccupied Closets, Supply Rooms & Storage Rooms					#DIV/0!			0%			0%					
Toilet Rooms					#DIV/0!			0%			0%					
Circulation (corridors, stairs, ramps & elevators)					#DIV/0!			0%			0%					├ ─── ╿
Remaining ³					#DIV/0!	0		33%	129,416		33%	129,418				
Kennaming					#017/0:	0		5570	123,410		5570	123,410				├ ── ╿
Total Building Gross Floor Area (GFA) ²			239,444			0			388,248			388,250	243			10,585
<i>(including outbuildings)</i> Grossing factor (GFA/NFA)			1.29			-			1.50			1.50				
			1120						1.00			1.00				
¹ Individual Room Net Floor Area (NFA)	net square															
² Total Building Gross Floor Area (GFA)	Includes the	entire building	gross square for	tage measured fro	om the outside	face of exterior	walls									
³ Remaining	Includes exte	erior walls, inte	rior partitions, ch	ases, and other ar	eas not listed a	bove. Do not c	alculate this a	rea, it is assun	ned to equal th	e difference b	between the T	otal Building G	ross Floor A	Area and	d area not a	ccounted for
Architect Certification	l hereby															
		Nam	e of Architect Fi	rm:	Drummey	Rosane And	lerson, Inc									
		Name of	Principal Archite	əct:	Carl Frances	chi										
		Signature of	Principal Archite	ect:	Cí 4											

Date: _____ December 21,2020

			1.600	Students				
		Defei						
		Date:						
	(re	fer to MSBA F	MSBA Gui Educational Program	delines n & Space Standard Guidelines)				
			-	e Summary for highlighted revisions				
	ROOM NFA ¹	# OF RMS	area totals	Comments				
	NFA							
			2,825					
	150 250	1	150 250					
	250 375	1	375					
	400	1	400					
	550	1	550					
	900	1	900					
	200	1	200					
			0					
			251,777					
ne-Equ	ivalent Acade	emic students: Total students	848 1,600	162 225				
			1,000	225				
				Non-Programmed space areas are				
				required to be included in the				
				following submittals:				
				Schematic Design Submittal				
				Design Development Submittal				
				60% Construction Documents				
				90% Construction Documents				
				Final Construction Documents				
			277 005	260.000				
			377,665	360,000				
			1.50	1.50				

bove.