

2 Final Design Space Program for Preferred Schematic Design

The final Space Program attached herein contains all spaces that will be provided in the Longmeadow High School project. This has been developed with the user groups and administration at Longmeadow High School and has been approved by the School Building Committee.

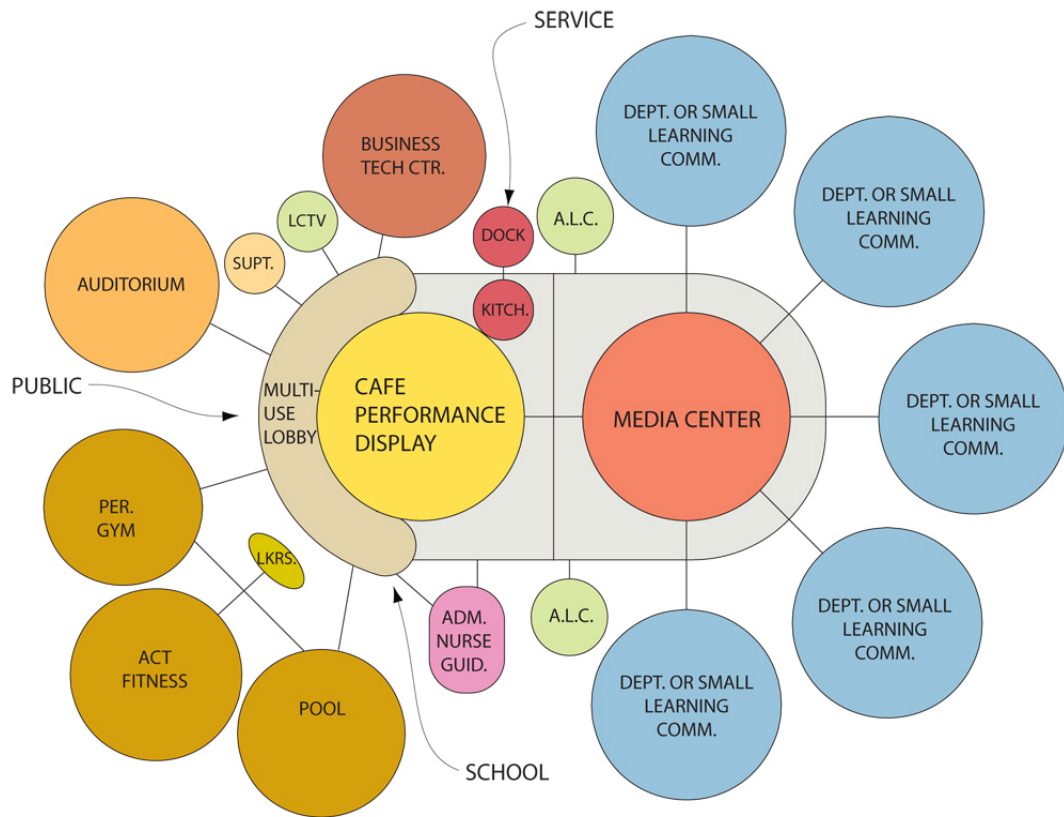
As with any phased design project, the space program has had some minor changes since the Feasibility Study program was submitted, due to needed program spaces. These include:

- An additional Science Classroom/ Lab
- An SLP office for the SPED Language specialist
- An expanded area in the Painting Classroom for the current Printmaking program
- Further clarification and adjustment of how the art and music will use their smaller spaces
- An athletic space for the trainer
- Equal spaces for the male and female Physical Education teachers' offices/monitoring spaces which are attached to the locker rooms
- Dimmer room for the Auditorium
- Exterior Storage for snow blowers. (All other outdoor equipment has been moved to the DPW building along with the facilities Director and Staff).
- Additional gymnasium storage for equipment
- Renovated Building: A space for the APE and Summer School offices in the District office area.

In summary, the new building gross square footage is 184,365 GSF, the renovation is 52,000 GSF and the combined is 236,365 GSF. The net to gross ratio for the new building is 1.47, for the renovation is 1.42 and for the combined building is 1.46.

For a deeper understanding of how the strictly functional aspects of programming merge with the spatial relationships, we have developed a series of functional relationship diagrams, illustrated here. The first diagram on the following page shows adjacencies throughout the school, while the next two diagrams further detail the relationships of the Applied Learning Centers to each of the Departments OR to each Small Learning Community as the school's educational delivery structure changes. Each diagram shows how these flexible groups might work in the overall concept.

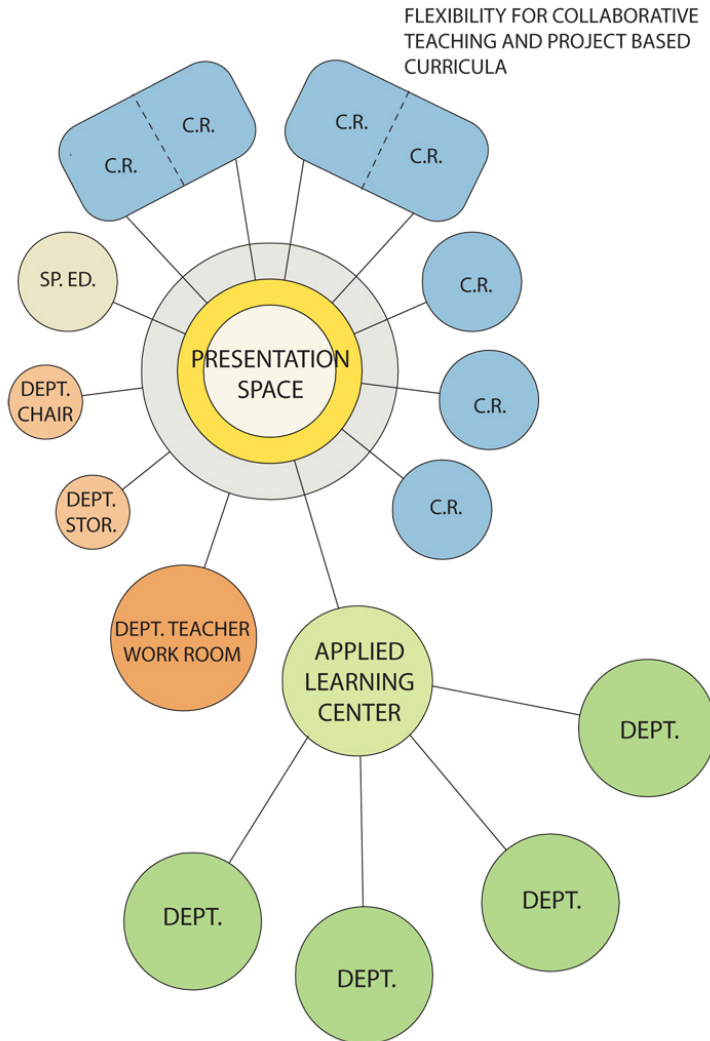
BUILDING ORGANIZATIONAL CONCEPT



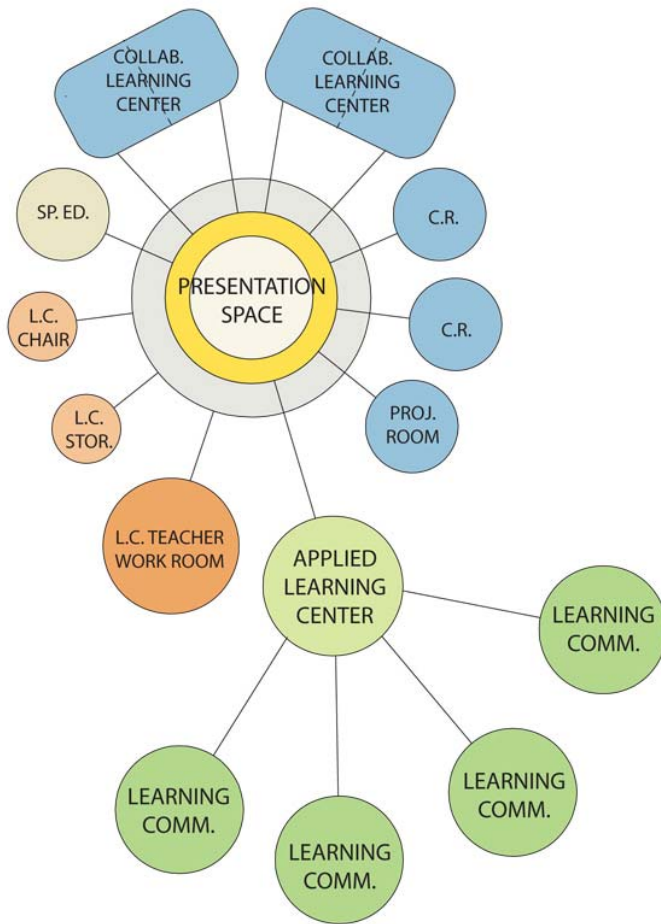
One Building, Two Educational Delivery Methods:

DEPARTMENTAL ORGANIZATIONAL CONCEPT:

Some Collaborative Teaching and Project Based Learning



SMALL LEARNING COMMUNITY CONCEPT:
Multi-use, Collaborative and Project Based Learning



Longmeadow High School Space Summary
Preferred Option

12/3/2009; rev 2/10/10

ACTUAL DRAWINGS DATED 2-10-10

LONGMEADOW HIGH SCHOOL	Existing Conditions 2009/2010 School Year		
ROOM TYPE	ROOM NFA ¹	# OF RMS	area totals
Science Classroom / Lab. Ex Science Rooms are combination Lab/Crs; (1) Lab/CR per teacher except Dept. Chair			
Science Classroom / Lab			
Science Classroom / Lab			
Science Classroom / Lab			
Science Classroom / Lab			
Ex Lab/CR	731	1	731
Ex Lab/CR	918	1	918
Ex Lab/CR	918	1	918
Ex Lab/CR	780	1	780
Ex Lab/CR	780	1	780
Ex Lab/CR	862	1	862
Ex Lab/CR	1,008	1	1,008
Ex Lab/CR	961	1	961
Ex Lab/CR (Physics)	747	1	747
Ex Lab/CR	1,264	1	1,264
Ex Lab/CR	1,248	1	1,248
Ex Lab/CR	1,145	1	1,145
Prep Room/ Work/ Storage			
Prep Room/ Work/ Storage			
Prep Room/ Work/ Storage			
Prep Room/ Work/ Storage			
Ex Prep / Storage	184	1	184
Ex Prep / Storage	78	1	78
Ex Prep / Storage	78	1	78
Ex Prep / Storage	115	1	115
Ex Prep / Storage	225	1	225
Ex Prep / Storage	299	1	299
Ex Prep / Storage	218	1	218
Ex Prep / Storage	240	1	240
Ex Prep / Storage	190	1	190
Ex Prep / Storage	95	1	95
Ex Science Chair's storage	133	1	133
Teacher Centers			
Teacher Center toilets			
Ex English	356	1	356
Ex Math	340	1	340
Ex History	140	1	140
Ex Foreign Language	205	1	205
Ex Science	209	1	209

Existing to Remain/Renovated			New			Comments
ROOM NFA ¹	# OF RMS	area totals	ROOM NFA ¹	# OF RMS	area totals	
			1,296	1	1,296	
			1,298	7	9,086	
			1,202	1	1,202	
			1,299	1	1,299	
			1,302	1	1,302	
			536	1	536	
			358	1	358	
			267	1	267	
			540	1	540	
			1,044	4	4,176	Teachers lack individual classrooms and use Teacher centers to prepare lessons, grade, collaborate, and meet with students.
			0	4	0	INCLUDED in gross

MSBA Guidelines 1000 students			
ROOM NFA ¹	# OF RMS	area totals	Comments
1,200	9	10,800	Capacity 23 x 85% utilization = 20 Seats - 1 period / day / student
80	9	720	

Longmeadow High School Space Summary

Preferred Option

12/3/2009; rev 2/10/10

LONGMEADOW HIGH SCHOOL	Existing Conditions School Year 2009/2010		
ROOM TYPE	ROOM NFA ¹	# OF RMS	area totals
SPECIAL EDUCATION			7,763
<i>(List classrooms of different sizes seperately)</i>			
Self-Contained SPED (Behavioral)			
Ex Resource (Behavioral)	698	1	698
Resource (Life Skills) with kitchenette, W/D			
Self-Contained SPED Toilet (Life Skills)			
Resource Room / Seminar Room			
Ex Resource and Reading	724	1	724
Ex Resource	703	1	703
Ex Resource	723	1	723
Ex Resource	742	1	742
Ex Resource	742	1	742
Ex Resource	742	1	742
Ex Resource	604	1	604
Small Group Room (conference rm)			
Ex Resource	420	1	420
Ex Resource	420	1	420
Ex Resource	420	1	420
Ex Resource	242	1	242
SPED Dept. Chair	80	1	80
Secretary/work Area	270	1	270
Testing /Storage Room	233	1	233
SLP			
ART & MUSIC			11,874
Art Classroom - 25 seats			
Painting/ Printmaking	967	1	967
Drawing	952	1	952
Digital Imaging (IMAC computer lab)	937	1	937
Graphics/Printmaking	952	1	952
Ceramics (excludes Kiln Room)	1,140	1	1,140
Sculpture	1,140	1	1,140
Photography			
Photography class studio	420	1	420
Darkroom - 1	120	1	120
Ex Darkroom - 2	170	1	170
Ex Darkroom - 3	170	1	170
Art Workroom w/ Storage	0	0	0
Art Offices			
Kiln room (Separate Room)	147	1	147
Storage			
Storage - supplies	70	1	70
Storage, separate - supplies	98	1	98
Prep Room - student projects	0	0	0
Teacher Center	98	1	98

ACTUAL DRAWINGS DATED 2-10-10						
Existing to Remain/Renovated			New			Comments
ROOM NFA ¹	# OF RMS	area totals	ROOM NFA ¹	# OF RMS	area totals	
		0			6,281	
			850	2	1,700	SPED inclusion program with core academics increases CR space needs and reduces SPED space needs.
			832	1	832	8-12 capacity
			100	1	100	
			400	7	2,800	6-8 capacity
			210	1	210	
			150	1	150	
			250	1	250	Incl. secty, copiers, work area
			105	1	105	Acoustic separation; 1 to 1 ratio
			134	1	134	
		0			10,233	
						30% of the LHS population participates in visual arts (was 40% before budget cuts)
			1,707	1	1,707	
			1,138	1	1,138	
			1,107	1	1,107	
			220	1	220	Incl. prep area
			267	1	267	for 3 incl dept chair
			86	1	86	
			266	1	266	

MSBA Guidelines 1000 students			
ROOM NFA ¹	# OF RMS	area totals	Comments
		10,070	
950	7	6,650	8% of pop. in self-contained SPED
60	7	420	
500	3	1,500	1/2 size Genl. Clrm.
500	3	1,500	1/2 size Genl. Clrm.
		4,700	
1,200	2	2,400	Capacity 23 x 85% utilization = 20 Seats - Use - 25% Population - 5 times/week
150	2	300	

Longmeadow High School Space Summary

Preferred Option

12/3/2009; rev 2/10/10

LONGMEADOW HIGH SCHOOL	Existing Conditions 2009/2010 School Year		
	ROOM NFA ¹	# OF RMS	area totals
HEALTH & PHYSICAL EDUCATION			17,638
Gymnasium	8,232	1	8,232
PE Alternatives (Fitness, Wrestling, Aerobics, Dance)	3,881	0	0
Weight Room (Existing in Basement)	2,356	0	0
Gym Storeroom	0	0	0
Ex Gym Storage	502	1	502
Ex Gym Storage	180	1	180
Locker Rooms - Boys/Girls w/Toilets			0
Ex PE Locker Rooms - Boys	2,272	1	2,272
Ex PE Locker Rooms - Girls incl. 21C, 21D	1,810	1	1,810
Team Locker Rooms (Basement - Boys & Girls)	2,110	2	4,219
Phys. Ed. Storage moved to RENO	0	0	0
Ex Storage	152	0	0
Ex Storage	190	0	0
Ex Storage	99	1	99
Athletic Director's Office	144	1	144
PE Instructors' Office (female)	180	1	180
PE Instructors' Office (male)	0	0	0
Officials / Coaches Changing Room/Toilet	0	0	0
Trainer			
MEDIA CENTER			11,098
Media Center (ex incl. 1,960 sf Reading Room; excludes ramp for school /circulation)	9,227	1	9,227
Office	232	1	232
Workroom/Resource Room	552	1	552
Computer Lab	856	1	856
Group Project Rooms (full glass)	0	0	0
Small Project Rooms (full glass)	77	3	231
AUDITORIUM / DRAMA			6,019
Auditorium			
Existing conditions (615 seats)	4,173	1	4,173
Auditorium Stage	1,562	1	1,562
Stage Wings (incl. in existing stage)	0	0	0
Stage Apron	164	1	164
Auditorium Storage	0	0	0
Make-up / Dressing Rooms	0	0	0
Controls / Lighting / Projection	120	1	120
Dimmer Room			

ACTUAL DRAWINGS DATED 2-10-10

Existing to Remain/Renovated			New			Comments
ROOM NFA ¹	# OF RMS	area totals	ROOM NFA ¹	# OF RMS	area totals	
		0			20,420	
			368	1	368	
			1,501	4	6,004	
			151	1	151	
			173	1	173	for use by 2 female gym teachers, near lockers
			173	1	173	for use by 2 male gym teachers, near lockers
			395	2	790	6-8 M, 1 Shower, 1 T; sim for F
			403	1	403	
		0			5,630	
			3,768	1	3,768	
			198	1	198	
			378	1	378	with archival space
			850	1	850	25 Stations - match existing
			109	2	218	10' x 12'; 2-5 people
			109	2	218	1-2 people, may be used for testing
		0			9,490	
			6,393	1	6,393	667 seats
			2,159	1	2,159	50' Proscenium and stage required to hold Combined band (110 to 120 instruments) and chorus (250 voices).
			incl			
			incl			50'x6' (total stage 2250 nsf)
			163	2	326	
			159	2	318	practice rooms when not for dressing
			189	1	189	
			105	1	105	

MSBA Guidelines 1000 students			
ROOM NFA ¹	# OF RMS	area totals	Comments
		19,800	
10,000	1	10,000	
3,000	1	3,000	
300	1	300	
1,400	4	5,600	
500	1	500	
150	1	150	
250	1	250	
		6,150	
6,150	1	6,150	
		9,567	
6,667	1	6,667	2/3 Enrollment @ 10 SF/Seat
1,600	1	1,600	
500	1	500	
300	2	600	
200	1	200	

Longmeadow High School Space Summary

Preferred Option

12/3/2009; rev 2/10/10

LONGMEADOW HIGH SCHOOL	Existing Conditions 2009/2010 School Year		
	ROOM NFA ¹	# OF RMS	area totals
DINING & FOOD SERVICE			11,979
Cafeteria / Student Lounge/ Break-out 400 seats max. capacity per 8/11/09 mtg	8,007	1	8,007
Chair / Table Storage			
Kitchen, incl. scramble serv, staff toilet, office	2,992	1	2,992
Staff Lunch Room	980	1	980
MEDICAL			662
Medical Suite Toilet			
Existing - girls	25	1	25
Existing - boys	25	1	25
Nurses' Office/Waiting Room			0
Waiting	150	1	150
Office	138	1	138
Nurse Storage	10	1	10
Interview Room			0
Examination Room / Resting			0
Examination Room	77	1	77
Resting Room - Girls	160	1	160
Resting Room - Boys	77	1	77
ADMINISTRATION & GUIDANCE			8,205
General Office / Waiting Room/ 3 Toilets	0	0	0
Ex Gen'l Office / Waiting	395	1	395
Ex Toilet (Office)	21	1	21
Ex Storage/Closet	35	1	35
Teachers' Mail and Time Room.	0	0	0
Copy Room (Ex. at Media Center)	674	1	674
Records Room (ex vault)	98	1	98
Principal's Office w/ Conference Area			
Ex Principal's Office	178	1	178
Ex Toilet	26	1	26
Principal's Secretary / Waiting	230	1	230
Assistant Principal's Office - AP1	132	1	132
Assistant Principal's Office - AP2	132	1	132
Student Information Systems Office	178	1	178
Student Activities Conference Room			
Conference Room (Shared w/ Guidance)	454	1	454
I.S. (Internal Suspension)	532	1	532
SAO (Substance Abuse Office) and conf.	315	1	315
ELL (English Language Learners)	90	1	90
SRO (School Resource Officer)	88	1	88
Social Worker/ Adjustment Counselor	56	1	56

ACTUAL DRAWINGS DATED 2-10-10						
Existing to Remain/Renovated			New			Comments
ROOM NFA ¹	# OF RMS	area totals	ROOM NFA ¹	# OF RMS	area totals	
		0			8,563	
						LHS requires 2.5 seatings to accommodate academic class schedule; capacity - 400 students x 15 nsf
			5,802	1	5,802	
			114	1	114	for gym chairs stacked
			2,225	1	2,225	includes toilet and office
			422	1	422	
		0			1,029	
			45	2	90	
			320	1	320	
			51	1	51	
			104	2	208	
			90	4	360	
		0			6,353	
						Program includes Dept. Chair offices; also used for dept. meetings, small meetings, private phone calls to parents. (3) peo. 3 shared toilets in gross.
			423	1	423	
			181	1	181	
			212	1	212	in acad wing
			134	1	134	
			258	1	258	
			114	1	114	M. Cadieux
			134	1	134	T. Landers
			134	1	134	P. Dunkerley
			incl			B. Keator (adjacent to Main Office) in above
			197	1	197	Student Activities
			397	1	397	
			316	1	316	R. Lee desk w/5-10 students
			304	1	304	(Relocated from Div 12)
			134	1	134	J. Preston
						N. Swistak; moved to reno
			104	1	104	

MSBA Guidelines 1000 students			
ROOM NFA ¹	# OF RMS	area totals	Comments
		8,200	
5,000	1	5,000	3 seatings - 15SF per seat
400	1	400	
2,300	1	2,300	1600 SF for first 300 + 1 SF/student Add'l
500	1	500	20 SF/Occupant
		910	
60	1	60	
250	1	250	
100	2	200	
100	4	400	
		4,370	
500	1	500	Administrative Suite: 2270 nsf
100	1	100	
200	1	200	
200	1	200	
375	1	375	
125	1	125	
150	1	150	
150	1	150	
120	1	120	
450	1	450	

Longmeadow High School Space Summary Preferred Option

12/3/2009; rev 2/10/10

LONGMEADOW HIGH SCHOOL	Existing Conditions 2009/2010 School Year		
	ROOM NFA ¹	# OF RMS	area totals
Guidance Office (Director)	132	1	132
Guidance Offices (Counselors)	0	0	0
Guidance Offices (Counselors)			
Existing	93	1	93
Existing	88	1	88
Existing	56	1	56
Existing	88	1	88
Administrative Assistant (Director's Assistant)			
Administrative Assistant	77	1	77
Guidance Waiting Room	595	1	595
Ex Toilet - Male	41	1	41
Ex Toilet - Male	63	1	63
Ex Closet	23	1	23
Student Information Systems			
Guidance Storeroom	109	1	109
Small Conference Room			
Career Center/ Resource Library	713	1	713
Records Room			
Teachers' Work Room (Ex. at Media Center incl. mail room)	820	1	820
METCO Room	742	1	742
Department Chair Offices			
Ex English	88	1	88
Ex Math	340	1	340
Ex History	80	1	80
Ex Foreign Language	161	1	161
Ex Science	100	1	100
Visual Arts	98	1	98
Musical Arts	64	1	64
CUSTODIAL & MAINTENANCE			594
Custodian's Office			
Custodian's Workshop			
Custodian's Storage	294	1	294
Recycling Room / Trash			
Receiving and General Supply Storeroom			
Network/Telecom Room - Warena	300	1	300
Maintenance Storage Outdoor			
Book Storage Moved from RENO			

ACTUAL DRAWINGS DATED 2-10-10						
Existing to Remain/Renovated			New			Comments
ROOM NFA ¹	# OF RMS	area totals	ROOM NFA ¹	# OF RMS	area totals	
			133	1	133	D. Lyons
			122	3	366	M. Smith.
			121	1	121	
			103	1	103	shown as guidance secretary. G whipple
			81	1	81	E.Rotsko
			96	1	96	(8 to 10)
			149	1	149	A Nilsson
			114	1	114	
			204	1	204	
			328	1	328	
			158	1	158	
			397	1	397	Location near Main Entry, Guidance and Adm.
			198	1	198	
			198	1	198	
			198	1	198	
			198	1	198	
			175	1	175	
			incl			shared with art teach
			94	1	94	
		0			2,808	
			140	1	140	
			189	1	189	
			225	1	225	
			223	1	223	
			1,019	1	1,019	
			incl			Head End Room moved to reno
			220	1	220	
			198	4	792	

MSBA Guidelines 1000 students			
ROOM NFA ¹	# OF RMS	area totals	Comments
750	1	750	
100	1	100	
100	1	100	
400	1	400	
150	1	150	
500	1	500	
		2,375	
150	1	150	
250	1	250	
375	1	375	
400	1	400	
400	1	400	
600	1	600	
200	1	200	

Longmeadow High School Space Summary Preferred Option

12/3/2009; rev 2/10/10

ACTUAL DRAWINGS DATED 2-10-10

LONGMEADOW HIGH SCHOOL	Existing Conditions 2009/2010 School Year	
<u>ROOM TYPE</u>	ROOM NFA¹	# OF RMS area totals

Existing to Remain/Renovated			New			Comments
ROOM NFA ¹	# OF RMS	area totals	ROOM NFA ¹	# OF RMS	area totals	

MSBA Guidelines 1000 students			
ROOM NFA ¹	# OF RMS	area totals	Comments

RENOVATED BUILDING - 52,000 gsf (Costs borne fully by Longmeadow)

ACTUAL DRAWINGS DATED 2-10-10

OTHER (located in renovated building)			30,603
Other (specify)			
Vocations & Business Technology			
Existing Business Technology Center (BTC) & Applied Learning Classrooms includes: (3) Tech Classrooms, (2) Computer Labs, Projects/ Teaching Center, and Lecture-Presentation Hall			
Tech Clrm. - (Business CR)			
Tech Clrm. - (Business CR)			
General Business/computer Lab			
General Business/computer Lab			
Lecture / Presentation Hall (BTC shared)			
Teaching Center			
Health & Physical Education			
Existing Pool	8,051	1	8,051
Pool Locker Rooms/Team Rooms: PE Boys/Girls Gr 9	2,447	2	4,894
Pool Locker Rooms/Team Rooms			
PE Alternatives (Fitness, Wrestling, Aerobics, Dance)	3,881	1	3,881
Weight Room	2,356	1	2,356
Health Classroom	700	1	700
Wrestling Mat Storage			
Gym Mat Storage			
PE Storage moved from new			
Administration & Guidance			
SRO (School Resource Officer)			
Custodial and Maintenance			
Dept. Storage Moved to New			
Ex English (Books)	356	1	356
Ex Math (Books)	340	1	340
Ex History (Books)	150	1	150
Ex Foreign Language (Books)	372	1	372

		36,682			
					LHS Vocational Education participation is 3% of the population. Of that ,16 students are in off campus programs half of each day and 12 are in off campus programs the full day.
					LHS Business Technology participation is 40% of the population. BusTech provides integration opportunities across disciplines.
843	1	843			
732	1	732			
1,118	1	1,118			Business / Accounting
971	1	971			
2,749	1	2,749			
					Community and extra curricular use; 4-year required PE - 100% population
8,044	1	8,044			
2,799	1	2,799			Community, team and extra curricular use; 4-year required PE - 100% population
2,453	1	2,453			
2,969	1	2,969			Community and extra curricular use; 4-year required PE - 100% population
2,499	1	2,499			Community and extra curricular use; 4-year required PE - 100% population
969	1	969			
196	1	196			
186	1	186			
95	1	95			
116	1	116			moved from new

Longmeadow High School Space Summary

Preferred Option

12/3/2009; rev 2/10/10

LONGMEADOW HIGH SCHOOL	Existing Conditions School Year 2009/2010		
ROOM TYPE	ROOM NFA ¹	# OF RMS	area totals

ACTUAL DRAWINGS DATED 2-10-10						
Existing to Remain/Renovated			New			Comments
ROOM NFA ¹	# OF RMS	area totals	ROOM NFA ¹	# OF RMS	area totals	

MSBA Guidelines 1000 students			
ROOM NFA ¹	# OF RMS	area totals	Comments

COMBINED BUILDING - 236,365 gsf

LONGMEADOW HIGH SCHOOL	Existing Conditions 2009/2010 School Year		
ROOM TYPE	ROOM NFA ¹	# OF RMS	area totals

ACTUAL DRAWINGS DATED 2-10-10						
Existing to Remain/Renovated - gsf			New Building Construction - gsf			Combined
ROOM NFA ¹	# OF RMS	area totals	ROOM NFA ¹	# OF RMS	area totals	

MSBA Guidelines 1000 students			
ROOM NFA ¹	# OF RMS	area totals	Comments

Total Building Net Floor Area (NFA)			162,524
Total Building Gross Floor Area (GFA) ²			248,000
Grossing factor (GFA/NFA)			1.53

		36,682			125,452	162,134
		52,000			184,365	236,365
		1.42			1.47	1.46

		122,812	
		185,000	
		1.51	

¹ Individual Room Net Floor Area (NFA) Includes the net square footage measured from the inside face of the perimeter walls and includes all specific spaces assigned to a particular program area including such spaces as non-communal toilets and storage rooms.

² Total Building Gross Floor Area (GFA) Includes the entire building gross square footage measured from the outside face of exterior walls

Architect Certification	I hereby certify that all of the information provided in this "Proposed Space Summary" is true, complete and accurate and in accordance with the rules, regulations and policies of the Massachusetts School Building Authority to the best of my knowledge and belief. A true statement, made under the penalties of perjury.
Name of Architect Firm:	OMR Architects
Name of Principal Architect:	Jeanne K. Roberts, AIA
Signature of Principal Architect:	_____
Date:	11-Feb-10