BROOKLINE DRISCOLL SCHOOL EXPANSION

School Building Committee November 15, 2018







SBC Meeting Designer Agendas

October 04 Existing Conditions Progress Report

Program Diagram

Range of Pre-Schematic Alternative Design Strategies

Traffic update

October 18 Refined Space Summary

Updated Designs Cost Estimates

Traffic Status Report

November 1 Refined Alternative Design Strategies

Traffic Report
Cost Estimates

November 15 Recommend Preferred Design Alternative

December 6 Revised Preferred Design Alternative

Updated Cost Estimate

Approve Preferred Alternative to proceed to Schematic Design



- 1. Approval of Minutes
- 2. Update on Educational Program and Space Summary
- 3. Revised Design Alternatives
- 4. Refined Cost Estimates and Evaluation Matrix
- 5. Discussion Design Alternatives/Preferred Solution
- 6. Upcoming Meetings



1. Approval of Minutes



- 1. Approval of Minutes
- 2. Update on Educational Program and Space Summary



Space Summary

FINAL DRAFT

Driscoll School Project - FINAL DRAFT Space Summary

- Clumpe from IMSBA Temple - Renovation Space at CCS

SOUR TIPE ORE ACADEMIC SPACES File Niede operate side of the control of the con	1,200 1,200	# OF RIES	area totals	ROOM		Existing DRISCOLL				MSBA GUIDELINES (For Reference) 758 Students			
Pre-Kindergerten w/tolet Kindergerten w/tolet Kindergerten w/tolet Gerenal Classicomis - Grades 1-5 Gerenal Classicomis - Grades 5-8 Tacture Classicom / Lab Setture Classicom / Lab	1,200		area totais	NFA	# OF PINS	area totals	ROOM NFA	# OF PANS	area totals	ROOM NFA	# OF RWS	area totals	
Kindergarten w/ tollet General Classrooms - Grades 1-6 General Classrooms - Grades 6-8 Teacher Planning Grades 3-8 Skunce Classroom / Lab	1,200		47,950			28.047			55,718		37	34,290	
General Classrooms - Grades 1-5 General Classrooms - Grades 6-8 Teacher Planning Grades 3-8 Science Classroom / Lab		3 4	3,600 4,600	918	1 3	1,011	1,225	2	2,450 5,870	1,200	4	4,800	
General Classrooms - Grades 5-8 Teacher Planning Grades 3-8 Science Classroom / Lab	810	26	18,600	903	15	13,539	890	25	22,250	960	16	17,100	
Science Classroom / Lab	840	12	10,080	738	8	4,426	891	15	13,370	960		8,550	
	1,200	24	1,200	771	2	1,642	1.193	3	3.680	1,200	3	3,603	
Prop room	80	3	240				153	3	400	80	3	243	
ELE Small Classroom	450 400	4 6	1,800	410	1	410	297 231	3	990 2.090				
Project Areas Small Group Room / Literacy & MathSpecialists	250	6	2,400 1,500	201	4	803	231	9	2,090	-			
Literacy and Math Specialist													
Literacy Specialist K-2							170 196	- 1	170 310				
Literacy Specialist 3-5 Literacy Specialist 6-9	_			-			150	2	500	_			
Small Group! Math Specialists													
Math Specialist K-2							215	2 2	430				
Math Specialst 5-5 Math Specialst 6-8	-						155	0	310				
Brichment Chellenge Support	250	1	250				230	- 1	230				
ELE Typical Classroom													
Teacher Planning ELE World Language Classrooms	840	2	1.890	781	2	1,682	950	2	1.700	-	\vdash	_	
Small Group Rooms						.,							
Small Group Rooms - Grades K-2							157	3	470				
Small Group Rooms - Grades 3-5 Small Group Rooms - Grades 6-8							150 150	3	490 490	1			
							1,00			_			
PECIAL EDUCATION SATE CLASS/CON PK-8	-	4	7,420			5,098			10,983	960	6	7,580	
SAU Classroom Teacher Flanning	450 50	4	1,800	-			\vdash			860		5,700	
SWD Classroom PK-8 toilet	-									60	6	560	
De-Escalarion Room	50	1	50	675		2.000							
Learning Center (LAHB) Learning Center Teacher Planning	840	3 2	2,520	675	8	4,052							
Resource Room - LAHB	450	1	490				490	- 1	450				
Speech				142		142			440	600	3	1,500	
OT / PT	150	2	300 960	994	1	964	1.090	- 1	1.090				
OT / PT Office	150	1	150	- 401									
Special Ed Team Facilitator BCBA	150	1	150 150				150	1	150				
Psychologist	150	2	300				190	1	190				
	250	1	260				150	- 1	150				
Therapeutic Learning Center Small Group K-2 Therapeutic Learning Center Chill Out K-2	-			-			190	2	590 90	-			
Therapeutic Learning Center Rebux K-2	_			-			80	1	80				
Comprehensive Learning Center IG2							380	- 1	380				
Comprehensive Learning Center Chill Cut K-2 Shared CLC/ LC Office K-2							70	1	100				
Therapoutic Learning Center Large Group 3-5							560	1	500				
Therapeutic Learning Center Small Group S S							200	2	400				
Therepeutic Learning Center Chill Out 3-6 Therepeutic Learning Center Relax 3-5	-			\vdash			100	1	100	-	-		
Comprehensive Learning Center 3-5							410	1	410				
Comprehensive Learning Center Chill Dut 3-5							70	- 1	70				
Shared CLC/LC Office 3-5 Self-Contained SWD - Chadex 1-5 tolled							110	1	110				
Stif-Contained SWD - Grades K-2 trilit							60	-1	60				
Self-Contained SWD - Grades 3-5 tolet							60	1	60				
Self-Contained SWD - Grades 6-8 Therapeutic Learning Center Large Group 6-8	_			-			380	-1	392	-			
Therepeutic Learning Center Small Group 6-8							200	2	400				
Therepeatic Learning Center Chill Cut G.B.							93	- 1	93				
Therapeutic Learning Center Relax 6-8 Comprehensive Learning Center 6-8	-			\vdash			400	1	400				
Comprehensive Learning Center Chill Dut 6 8							70	i	70				
Shared CLC/LC Office 6-8 Self-Contained SWD - Grades 6-8 toler							110	1	110				
Self-Contained SWID - Grades 6-8 toler Learning Center K-2							470	2	90	1			
Learning Center 3-4							400	1	400				
Learning Center G-E	_			-			400	- 1	433				
Learning Center 7-8 Special Education Team Clerk			-				450 100	-	450 100	_	\vdash		
Special Education Records							60	1	60				
Special Education Waiting Special Education Conference							590 170	1	590 170	1			
Special Education Conference TLC Social Worker							170		190	1			
Psychologist							170	- 1	170				
Psychologist / Social Worker Conference Psychologist / Social Worker Safe Room	-	_	-	_			290 70	1	290 70	-	\vdash		
Psychologist / Social Worker Testing		t					90	-	90				
Poschologist / Social Worker Weiting							430	1	430				
Life Sells Store										1			
RT & MUBIC			11,820			5,466			13,993			7,225	
Art Classroom - Grades K-5 Art Classroom - Grades 6-8	1,000	1 1	1,000	630	- 1	630	1.020	1	2.040 1.190	1,000	1	1,000	
Art Workroom w/ Storage & kilin	150	2	300	300	1	300	160	3	490	160	2	300	
Band / Charus - 100 seats	1,500	1	1,500	790	1	780	1,910	1	1,810	1,500	-1	1,500	
Music Classroom / Large Group - 25-50 seets Music Practice / Encembre - Small	1,200 75	2	2,400	666	1	966	1,185	2	2,370	1,200 75	1 3	1,200 225	
Music Predice / Ensemble - Large	200	1	200				281	i	280	75 200	1	203	
Multpurpose Room Stage	3,600	1	3,500 1,600	2,890	-1	2,880	3.790	1	3.783	1,000	1	1,600	

FINAL DRAF

Driscoll School Project - FINAL DRAFT Space Summary

- Clumpe from IASBA Tempt - Renovation Space at CCS

Section School District-Wide SWD Program District-Wide ELL Program	Proposed DRISCOLL 800 Students			Existing DRISCOLL			(For Reference) 1,010 Students			MSBA GUIDELINES (For Reference) 758 Students		
RODWITTE	ROOM NFA	# OF RMS	area totals	ROOM NFA	# OF PIAS	area totals	ROOM NPA	# OF FENS	area totals	ROOM NFA	# OF RWS	area tota
Multipurpose Chair Storage	120	1	120				130	-1	130			
OCATIONS & TECHNOLOGY			2,050			811			2,978			3,20
Tech Clim (E.G. Drafting, Business)	960	1	960	811	1	811	910	- 1	910	1,200	- 1	1,2
Tech Shop - (E.S. Censumer, Wood)	2,000	1	2,000				2.010	-1	2.010	2,000	-1	2,0
HEALTH & PHYSICAL EDUCATION			11,220			4,770			10,690			8,33
Gynnesium	6,000	1	8,000	3,640	1	3,640	6,120	-1	6,120	6,000	-1	8,00
Gyn Storescom	210 BO	1	210				210	- 1	210	150	1	19
Dyna Storaecorn Health Instructor's Office w/ Shower & Toliet	180	1	180				220	2	90 440	183		11
Locker Rooms - Boys / Girls w/ Toilets	400	2	800				420	2	840	1,000	2	2.0
Small Gym	3,000	1	3,000	850	- 1	100	2.990	- 1	2910			
Health/Fitness Classroom	860	1	860	_		_						
MEDIA CENTER			4,310			4,130			5,170			4,30
and all the first factors and			2000	- 22300	-	0000	9.000	100		10000	- 2	9.00
Media Center/Reading Room	4,000	1	4,000	1,865	2	3,730	4.850	1	4.893	4,300	- 1	4,30
Modia Book Room	170	1	170	-100	-	- 400	170	1	170			
DINING & FOOD SERVICE			6,787			5,938			7,850	5.695	1	8,48 5.66
Cafeteria / Dining (2 seatings)		_		-		-				5,685	-1	5,68
Cafeteria / Dining (S seatings) / Multi-Use	4,000	1	4,000	3,176	1 1	3,176	6.100	1	6.100	1		
Kitchen	1,800	1	1,800	1,566	1	1,566	1,790	1	1,790	2,060	1	2,00
Nitchen Office	70	1	70				7.0	1	70			
Kitchen Storege Etither Toller	60	1	60	409	1	409	92	2	120	\vdash		
Ritcher Gustagial	30	1	30	-			30	1	30			
Chair / Table / Equipment Storage	457	1	467				640	- 1	640	463	- 1	40
Staff Lurch Room	300	1	300	788	1	768		0		290	1	26
MEDICAL.	_		710	_		264	_		720			71
Medical Suite Toile:	60	1	60			264	100	-1	100	60	-1	- "
Nurses' Office / Weiting Room	250	1	250	244	1	244	290	1	290	250	1	25
Exemination Room / Realing	100	4	400				100	- 1	100	100	4	40
Examination Room / Resting	_	_		-		_	70	2	140			
ADMINISTRATION & GUIDANCE			5,965			1,798			4,920			3,23
Principal's Office of Conference Area	375	1	375	355	1	\$35	550	1	550	375	- 1	57
Principal's Secretary / Weiting	126	0						0	0	125	1	12
Assistant Principa's Office - AP1 Assistant Principa's Office - AP2	130	1	150 130	280	1	280	140	2	280	130	0	11
General Office / Wating Room / Tolet	510	- 1	510	331	- 1	331	970	- 1	870	612	1	D'
Conference room	286	1	285				500	- 1	500	285	- 1	28
Teachers' Mail and Time Room	100	1	100				\$70	1	570	100	-1	- 10
Duplicating Room Records Room	166	1	165	_		_	100	0	130	167	1 1	16
Supentsory / Spare Office	130	1	180	-			110	1	110	130	1	1
Clement Widting Room	100	1	100	652	-1	652	120	- 1	120	100	- 1	11
Suldance Office	150	2	460	100	2	200	305	2	610	150	4	60
Guidance Stoneroom	40	0	-	-			40	2	90	40	-1	
Professional Learning and Teacher Planning Teachers' Work Room	500	3	1,500			-	1.010	-1	1.010	529	1	50
Small Conference Room	250	3	760									
Specialist Collaborative Workspace	250	3	750									
World Language Office	150	2	300	\vdash			310	-1	310			
METCO Office	150	1	160	\vdash			160	-1	150			
CUSTODIAL & MAINTENANCE			2,995			1,408			4,920			2,31
Custodien's Office	150	1	150	200	1	200	120	1	120	150	-1	11
Custodien's Tolet / Shawer	934		395				90 450	1	90 450	333		
Custoden's Workshop Custoden's Storage	335	1	335 375	375		376	450	1	450 470	333	1	3
Storeroom	100	2	1,000	200	1	258	608	4	2673	500	1	5
Recycling Room / Trash	400	1	400				270	- 1	276	400	1	4
Receiving and General Supply	366	1	365	400	1	400	590	1	590	363	1	3
Network / Telecons Room Outdoor Storage	150	2	300 60	176	1	176	590 80	1	590 90	200	1	2
	- 00	-					- 03					
Other (specify)			1,300			409			13,120			
Extended Day Storage	420	1	420	400	-1	409	420	-1	420			
Extended Day Office	820	1	320				520	1	520			
PTO	380	1	380				580	- 1	590			
Staff Showers Mechanical / Emer Generator	90	.2	180	-			11,820	2	100	-		
										\vdash		
Total Building Net Floor Area (NFA)			103,427			56,103	(MBBA	104,513)	131,630			79,552
Proposed Student Capacity i Enrollment	K-6	504	800	K-5	400	616	\vdash		1,010	\vdash		750
	5.8	252		6.9	216					1		
Total Building Gross Floor Area (GFA)			155,140			98,000	(MSBA -	156,882)	196,978			119,47
Grossing factor (GFA/NFA)	BEEP	44	1.50									
									1.50	1		1.5

- 1. Approval of Minutes
- 2. Update on Educational Program and Space Summary
- 3. Revised Design Alternatives





Option 0"Minimum Code Renovation/Addition"



Option F.1"Modified Magnet - New Construction"



Option A.1
"Renovation with East Addition"

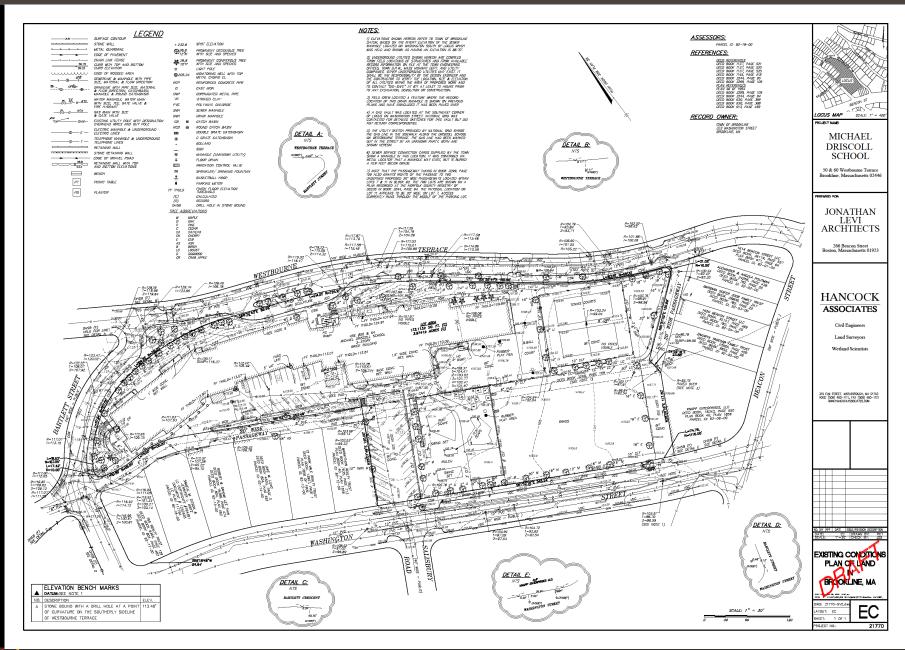


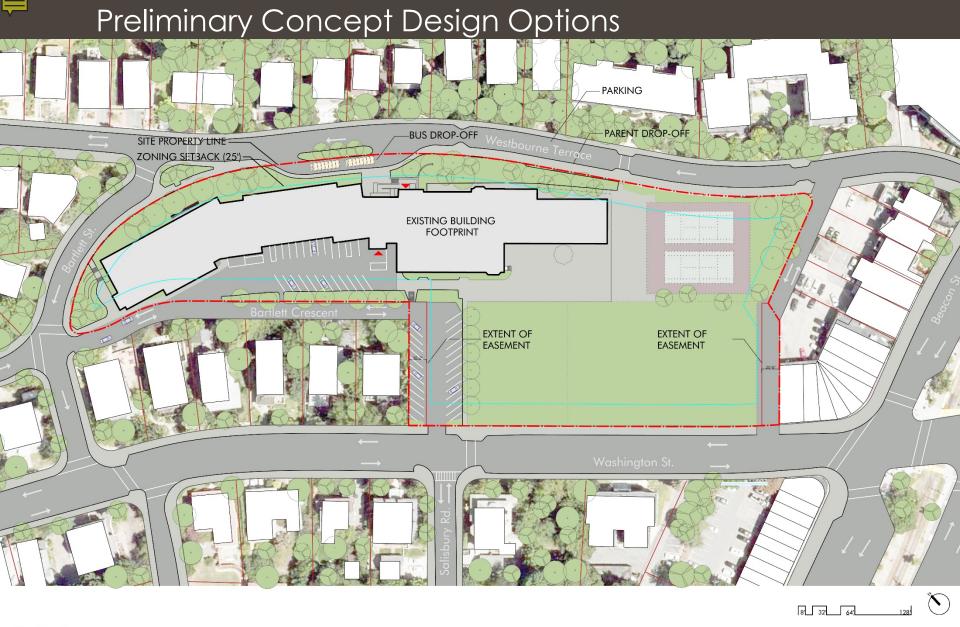
Option H"Modified Star - New Construction"



CONCEPT DESIGN THUMBNAIL SITE PLAN

Survey

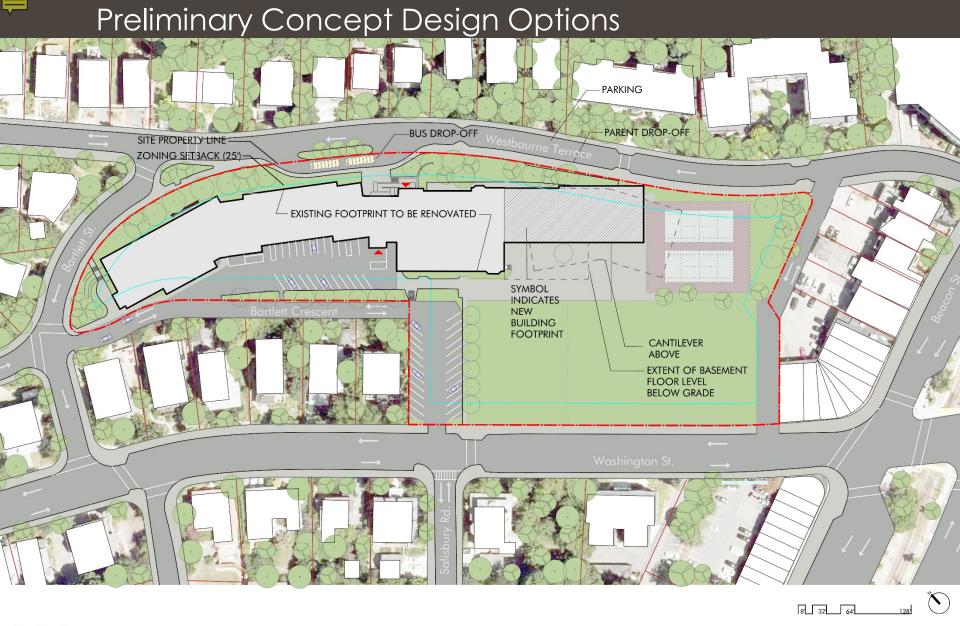








SITE PLAN DRISCOLL SCHOOL, BROOKLINE

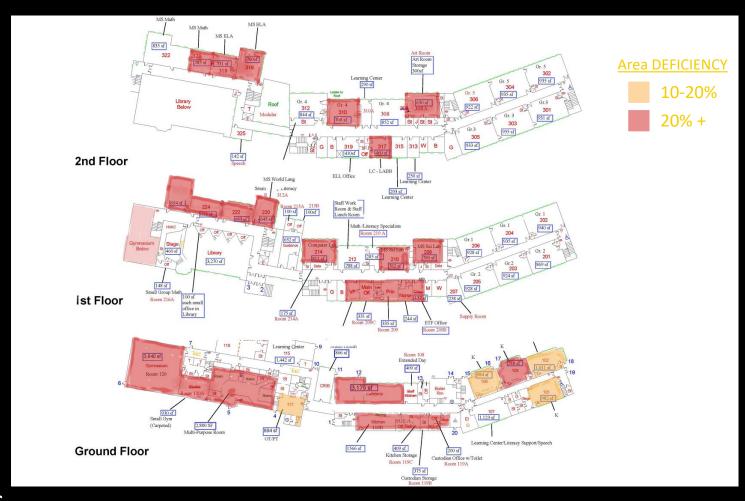




OPTION 0

SITE PLAN DRISCOLL SCHOOL, BROOKLINE





Plans

Option 0 – 'Minimum Code Addition/Renovation'



Option 0



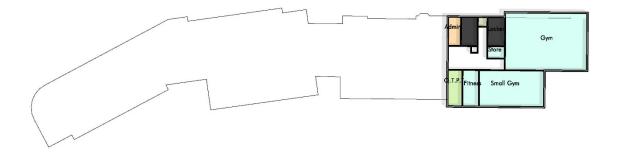
Option $\mathbf{0}$





OPTION A.1

SITE PLAN DRISCOLL SCHOOL, BROOKLINE





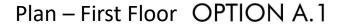


onathan Levi Architects

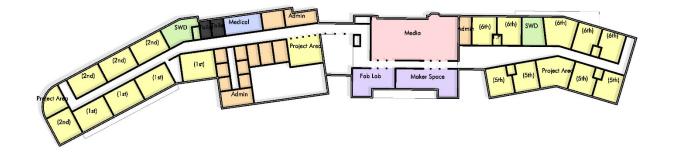
Plan – Lower Level OPTION A.1







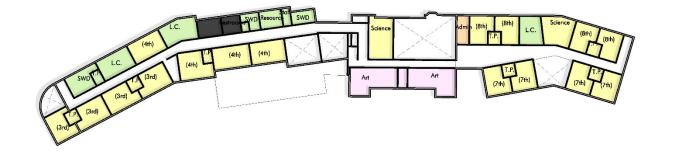
SITE PLAN DRISCOLL SCHOOL, BROOKLINE















onathan Levi Architects

Plan – Third Floor OPTION A.1



Option A.1



Option A.1







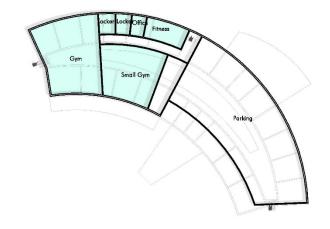


OPTION F.1

SITE PLAN DRISCOLL SCHOOL, BROOKLINE



Jonathan Levi Architects







Plan – Lower Level OPTION F.1



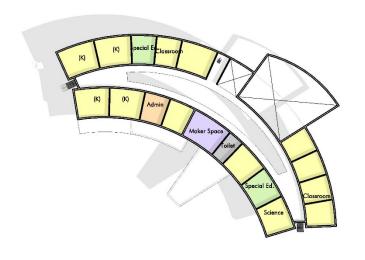




Jonathan Levi Architects

Plan – First Floor OPTION F.1

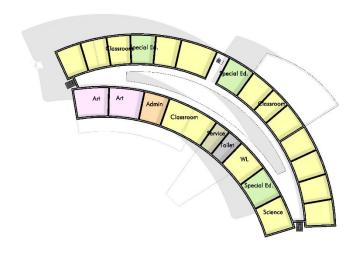
SITE PLAN DRISCOLL SCHOOL, BROOKLINE







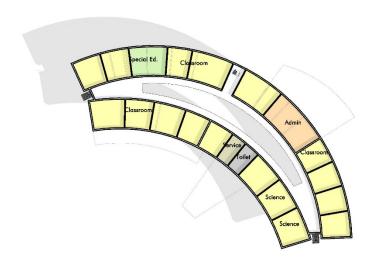
Plan – Second Floor OPTION F.1







Plan – Third Floor OPTION F.1







Plan – Fourth Floor OPTION F.1



Option F.1



Option F.1



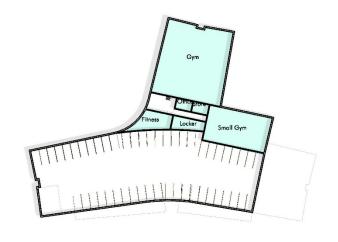








SITE PLAN DRISCOLL SCHOOL, BROOKLINE







Plan – Lower Level

OPTION H

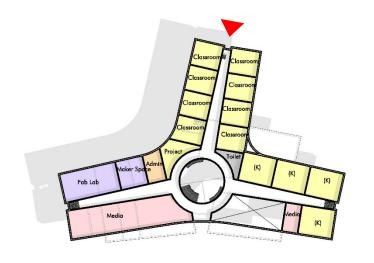




Plan – First Floor

OPTION H

SITE PLAN DRISCOLL SCHOOL, BROOKLINE



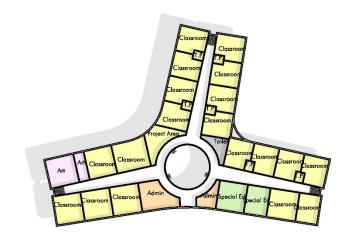




Plan – Second Floor

OPTION H





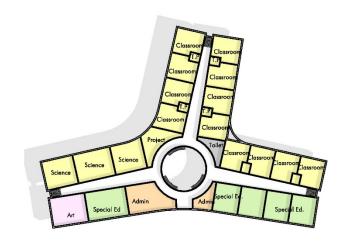




Plan – Third Floor

OPTION H









Plan – Fourth Floor OPTION H



FLOOR PLAN DRISCOLL SCHOOL, BROOKLINE



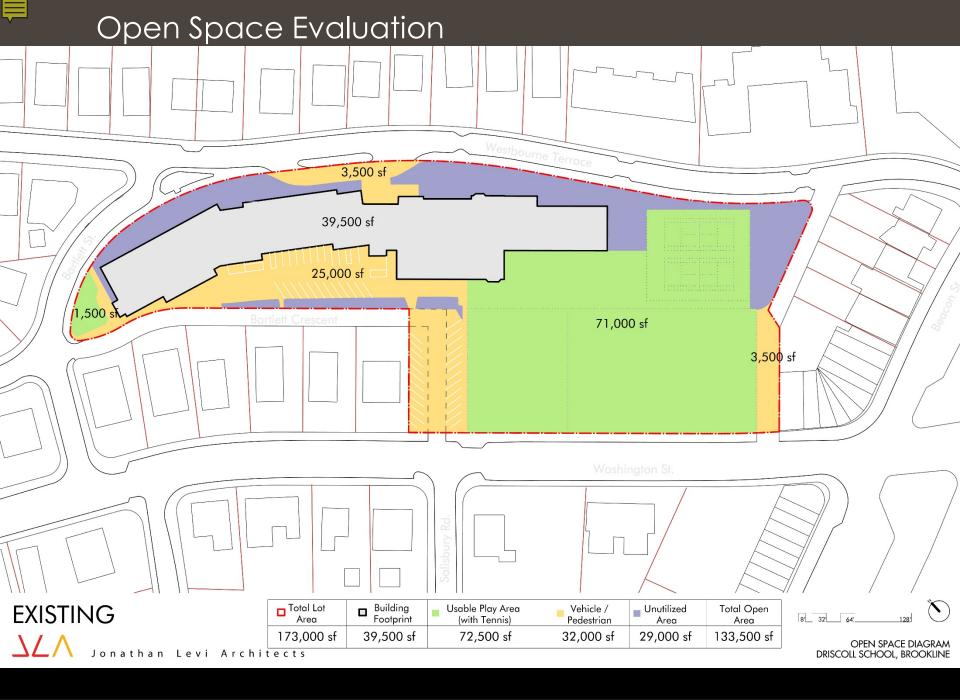
 $\mathsf{Option}\,H$

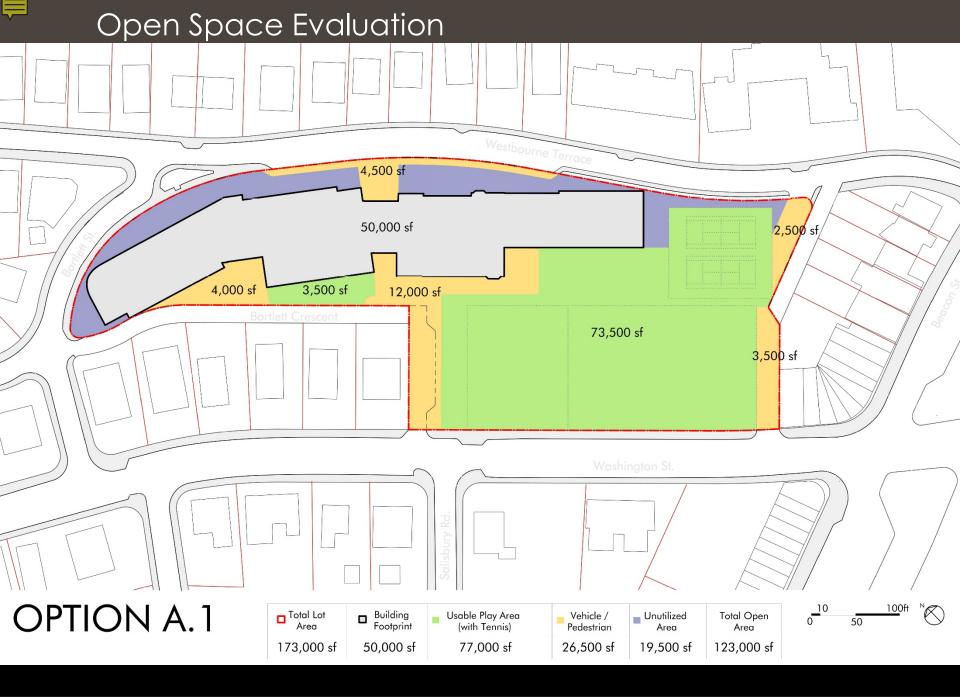


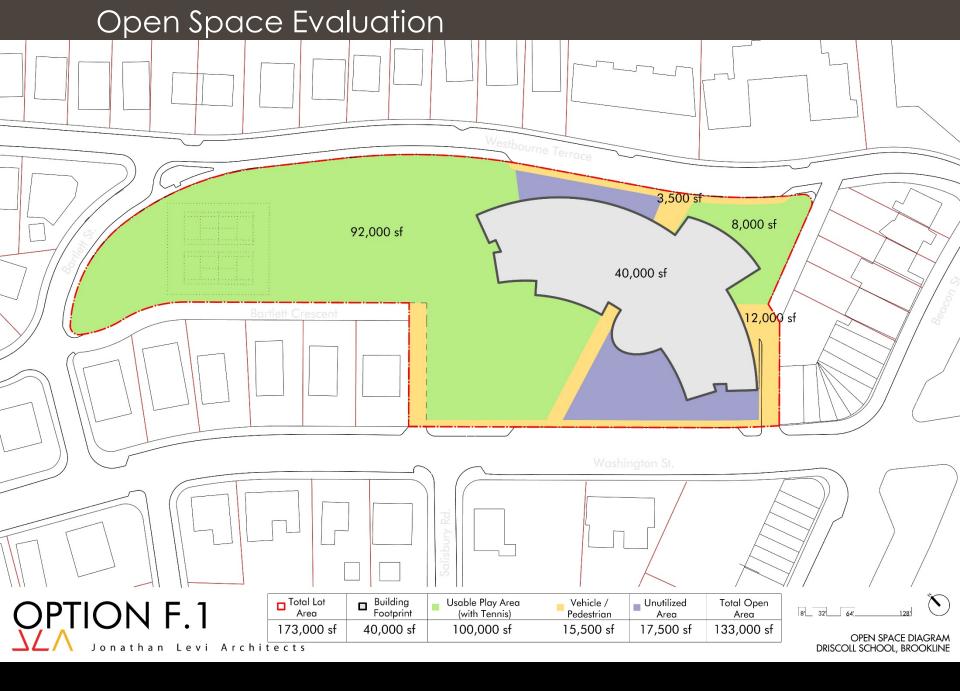
Option H













Open Space Comparison

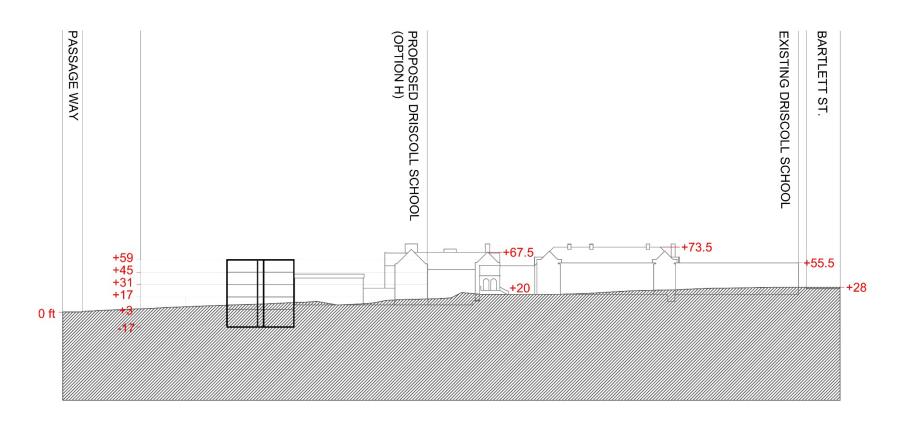
9	LOT	BUIL	DING	OPEN SPACE			
Concept Alternative	Total Lot Area	Building GSF	Building Footprint	Usable Play Area (with tennis)	Vehicle / Pedestrian	Unutilized Area	Total Open Area
Existing	173,000 SF	97,000 SF	39,500 SF	72,500 SF	32,000 SF	29,000 SF	133,500 SF
A.1 Reno/Add-East	173,000 SF	155,500 SF	50,000 SF	77,000 SF	26,500 SF	19,500 SF	123,000 SF
F.1 Modified Magnet	173,000 SF	155,500 SF	40,000 SF	100,000 SF	15,500 SF	17,500 SF	133,000 SF
H Modified Star	173,000 SF	155,500 SF	40,000 SF	109,500 SF	19,000 SF	4,500 SF	133,000 SF
Lincoln	187,308 SF	87,500 SF	44,369 SF	61,851 SF	13,633 SF	67,455 SF	142,939 SF
Runkle	132,858 SF	104,800 SF	52,609 SF	40,446 SF	0 SF	39,802 SF	80,248 SF
Coolidge Corner	292,723 SF	200,000+ SF	88,880 SF	143,211 SF	6,982 SF	53,650 SF	203,843 SF

Site Evaluation

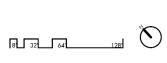


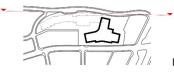


Site Evaluation





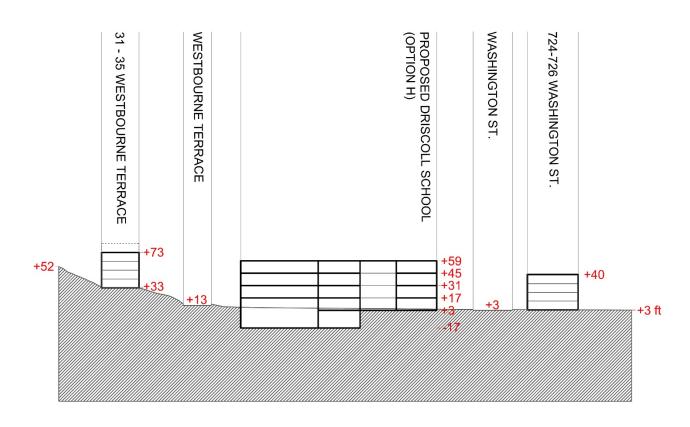




OPTION H

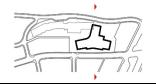
SITE ELEVATION DRISCOLL SCHOOL, BROOKLINE

Site Evaluation











SITE ELEVATION DRISCOLL SCHOOL, BROOKLINE

Agenda

- 1. Approval of Minutes
- 2. Update on Educational Program and Space Summary
- 3. Revised Design Alternatives
- 4. Refined Cost Estimates and Evaluation Matrix



Project Cost Comparison



Option 0- Minimum Code Addition/ Renovation

with Structured Parking \$85M - 89M without Structured Parking \$76M - 80M



Option A.1 - Code Renovation with East Addition

with Structured Parking \$105M - 110M without Structured Parking \$96M - 101M



Option F.1 – Modified Magnet – new construction

with Structured Parking \$101M - 105M without Structured Parking \$93M-97M



Option H– Modified Star – new construction

with Structured Parking \$101M - 105M without Structured Parking \$93M - 97M

Evaluation Matrix Topics

Project Viability Issues

- Total Project Cost
- Schedule
- Traffic
- Risk

<u>Site</u>

- Construction Impact to Education
- Construction Impact to Neighbors
- Open Space/Building Massing/Footprint
- Community Use

Long-Term Costs

- Long-Term Maintenance and Repair Costs
- Operating Costs

Teaching and Learning

- Educational Program Accommodation
- Flexibility-Fixed Classroom Count per Cohort
- STEM Enhancement-Visible learning

Building Environment

- Flexibility-Building Systems
- Security
- Natural Light and Views
- LEED / Sustainability

Other Topics Recommended by the Building Committee

- Pedestrian and Vehicular Circulation
- Disruption to Families

Evaluation Matrix

DRISCOLL SCHOOL

Concept Options Evaluation Matrix



RATINGS: Very Disadvantageous Disadvantageous Neutral Advantageous

PROJECT EVALUATION CRITERIA	Option 0 Minimum Code Addition/	Option A.1 Renovation with East Addition	Option F.1 'Modified Magnet' - New	Option H 'Modified Star' - New Const.	Comments
Desirat Vinkilita Israes	Renovation		Construction		
Project Viability Issues			1	l	La constant
1 Total Project Cost					See costs below.
2 Schedule					Multi proj. areas/phasing=add. construction time. Swing space req. additional time
3 Traffic					New allows untangling of drop off/bus/service. Reno. may need use of Bartlett Cresc.
4 Risk					Unforeseen conditions. Phasing conflicts
Site					
5 Construction Impact to Education					Swing space will be disruptive. Loss of gym, cafeteria, library. Reno. constr. near kids
6 Construction Impact to Neighbors					New construction separated from residences.
7 Open Space /Building Massing / Footprint					Greater open space quant. and adjacencies for H
8 Community Use					Clearer zoning of public use portions of building for new.
Long-Term Costs					
9 Long Term Maintenance and Repair Costs					Unforeseen future issues with remaining 90 year old construction
10 Energy Costs					Reno. building envelope inherently underperforming.
Teaching and Learning					
11 Educational Program Accommodation					Reno. does not fit program sizes or adjacencies.
12 Flexibility-Fixed Classroom Count per Cohort					
13 STEM Enhancement-Visible Learning					New affords planned connectivity.
Building Environment					
14 Flexibility-Building Systems					
15 Security					Long travel distances and sight lines for reno.
16 Natural Light and Views					
17 LEED / Sustainability					New construction configured for sustainability. Existing roof incompatible with PV
Other					
18 Pedestrian and Vehicular circulation					Safety improved with newly separated draulation systems.
19 Disruption to Families					Phasing and limited access potential for reno. with impacted site.
Total GSF	155,140	155,140	155,140	155,140	
Swing Space Cost	\$4	\$4	\$0	\$0	
Order of Magnitude Project Cost (\$Million) without parking	\$76-80	\$96-101	\$93-97	\$93-97	
Order of Magnitude Project Cost (\$Million) with parking	\$85-89	\$105-110	\$101-105	\$101-105	

Agenda

- 1. Approval of Minutes
- 2. Update on Educational Program and Space Summary
- 3. Revised Design Alternatives
- 4. Refined Cost Estimates and Evaluation Matrix
- 5. Discussion Design Alternatives/Preferred Solution





Option 0"Minimum Code Renovation/Addition"



Option F.1"Modified Magnet - New Construction"



Option A.1"Code Renovation with East Addition"



Option H"Modified Star - New Construction"



CONCEPT DESIGN THUMBNAIL SITE PLAN

Agenda

- 1. Approval of Minutes
- 2. Update on Educational Program and Space Summary
- 3. Revised Design Alternatives
- 4. Refined Cost Estimates and Evaluation Matrix
- 5. Discussion Design Alternatives/Preferred Solution
- 6. Upcoming Meetings





Recap of Meetings



- **June 21:** Neighborhood Community Forum
- **June 22:** Neighborhood Community Forum
- **September 11:** Driscoll Staff Meeting and Presentation
- **September 18:** Focus Groups with Driscoll Staff
- **September 22:** Educational Visioning Session with Driscoll Staff and Families
- **September 25:** Neighborhood Community Forum
- October 2: Advisory Committee Capital and Schools Subcommittees
- October 4: Building Committee, School Committee
- October 9: Parks and Recreation Commission, Select Board
- October 16: Advisory Committee Capital and Schools Subcommittees
- October 18: Building Committee
- October 25: School Committee
- October 29: Neighborhood Community Forum
- **November 1:** Building Committee
- **November 13:** Building Commission



Upcoming Public Meetings



- **November 26:** Neighborhood Community Forum at Driscoll School Auditorium, 6:30 p.m.
- November 27: Select Board Public Hearing at Town Hall, Time TBD
- **November 28 November 29:** Advisory Committee Capital Subcommittee & Schools Subcommittee Joint Hearing at Town Hall, 5:30 p.m.
- November 29: School Committee Public Hearing at Town Hall, 6:00 p.m.
- **December 4:** Advisory Committee Meeting at Town Hall, Time TBD
- **December 6:** Building Committee Meeting at Town Hall, 7:30 a.m.
- **December 13:** Town Meeting at Brookline High School, 7:00 p.m.

Additional meetings will be added with various Town Boards and Commissions throughout the process and leading up to the December Town Meeting