

BOARD of ALDERMEN Meeting

Zervas Elementary School – Newton, MA September 15, 2014



Project Management



EXISTING AERIAL







Priority Site Goals:

- Safety of Students/Pedestrians
 (Including Separation of Bus and Car Drop Off)
- Maximize Open Space
- Minimize Traffic Impact on Beethoven
- Minimize Impact on Abutters







Site Program: Expanded vs. Non-Expanded

Program Goals	Program	Existing Zervas	Expanded Site	*Without Expansion
Site Acreage		3.5 usable	4.2 usable	3.5 usable
24 Classroom Building SF	78,800 SF	35,000 SF	✓	✓
Shared Building Entry (if walking, driven or bused)	single entry point	✓	✓	х
Staff Parking	80	44	75	52
Separate Bus and Car (Pick-Up and Drop-Off)	4 buses/20+ cars	х	✓	✓
Keep Bus Traffic Off Beethoven	Beacon bus loop	x	✓	х
Entry Plaza + Gathering Space	8K SF	via lawn (8K SF)	✓	2K SF
Playgrounds + Fields	60K SF	43K SF	✓	50K SF
Outdoor Garden + Classroom	2,500 SF	✓	✓	✓
Walker Friendly + Enhanced Pedestrian Paths	separate from cars	х	✓	students cross traffic
Snow Storage	6K SF	4K SF	✓	0 SF
Drainage/Bio-Swales	8K SF	0 SF	✓	0 SF
Minimize Wetland Impact	no pavement within 25' buffer	x	✓	х
Minimize Massing Near Adjacent Properties	100'+ away	126'	115'	75'

LEGEND

meets program

does not meet program

* Based on Option A1.2C







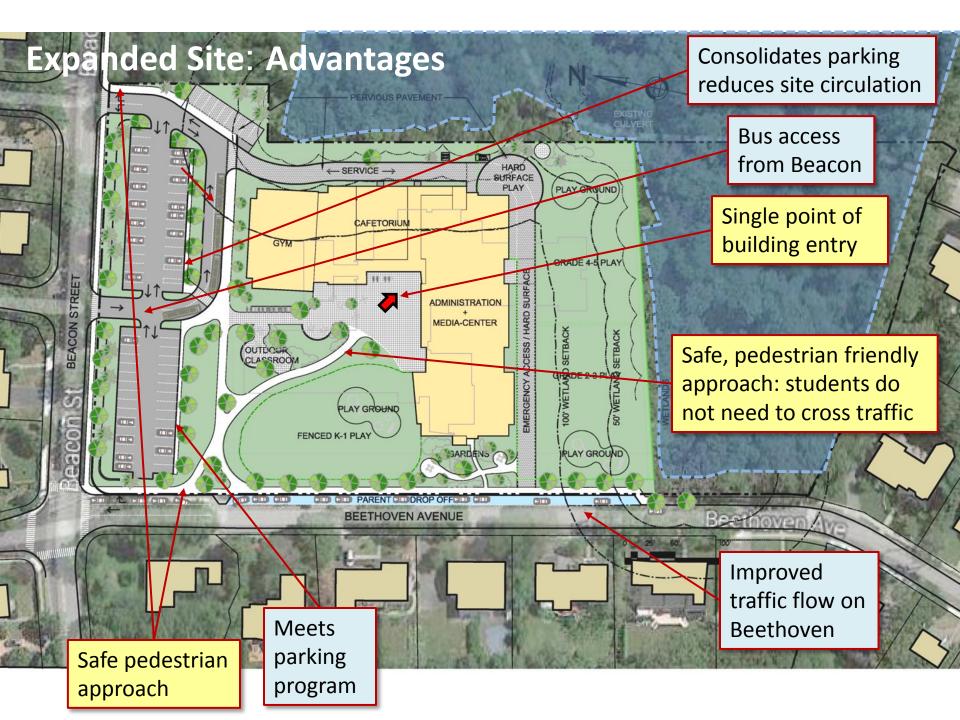


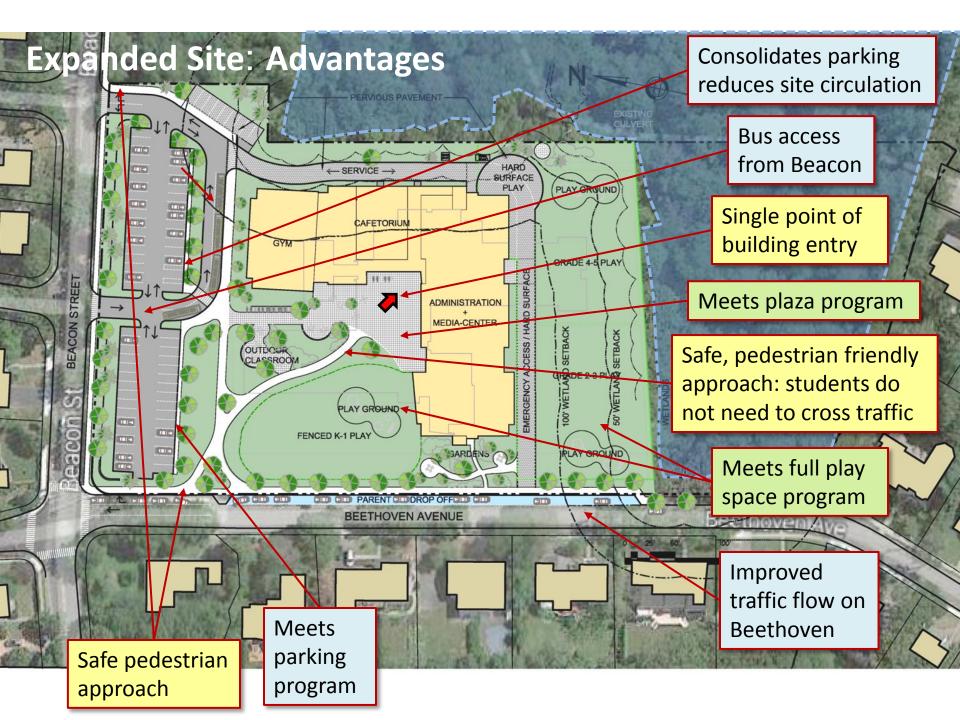
SCHEMATIC DESIGN PROGRESS – SITE PLAN

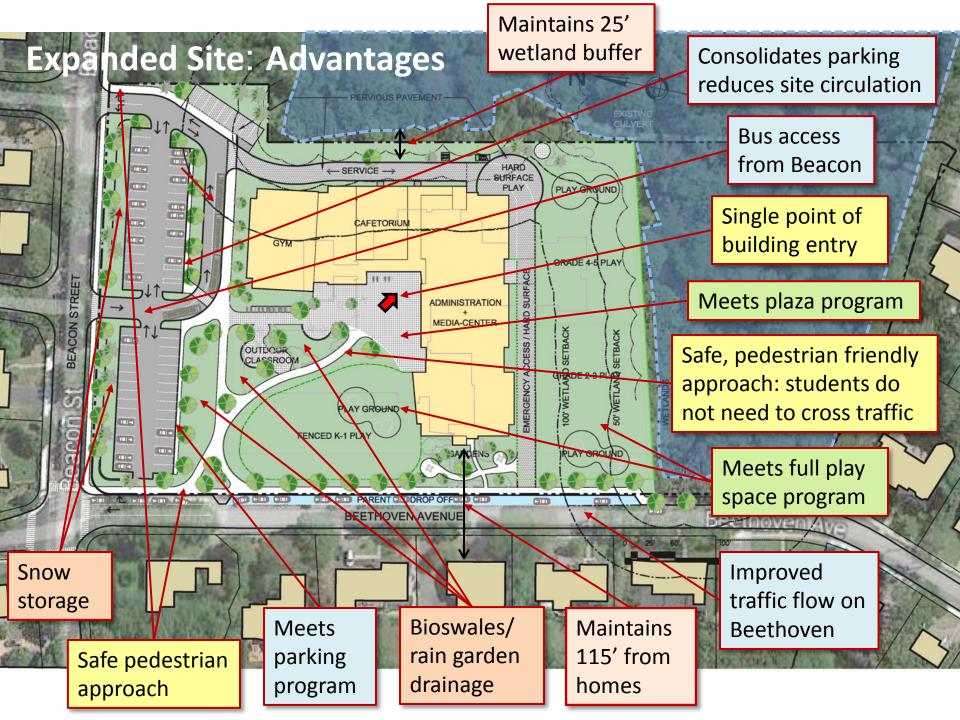












EXISTING SITE		SITE P	ROGRA	M ELEN	MENTS		OTHER NOTES	
5.3 acre site (3.5 usea	able including setbacks)	Play Space	Parking	Car Drop*	Bus Drop	Outdoor Learning	Service	Including Wetland Buffers**
O STATE OF S	EXISTING Pinwheel Plan	43k square feet	44 lined	O cars	1 bus	2 (classroom + garden)	2 dumpsters + loading	 Small Scale / 1 to 1-1/2 Story Building Wetland Buffer Overlaps = 25k SF West Facing Entry East/West Classroom Orientation All Bus & Car Drop-Offs on Street
	A1.1b Multi-Wing Plan	50k square feet	20 spaces	10 cars	4 buses	2 (classroom + garden)	2 dumpsters + loading	 2 Story Along Beethoven Edge, 1 & 2 Story Behind Reduced Wetland Buffer Overlap Hidden / North Entry Playfields Behind School
	A1.2b Elbow Plan - South	50k square feet	36 spaces	O cars	4 buses	,	2 dumpsters + loading	 Maintains 1 & 2 Story Building Increased Wetland Buffer Overlap North-West Entry Narrow / Separated Playfields
	A1.2c Elbow Plan - North	50k square feet	52 spaces	23 cars	4 buses	•	2 dumpsters + loading	 Wetland Buffer Overlap = Existing South-West Entry 3-Story Adjacent to Neighbors with 1 & 2 Story Caf/Gym Opposite
	A1.3b Pinwheel Plan	50k square feet	38 spaces	O cars	4 buses	2 (classroom + garden)	2 dumpsters + loading	Maintains 1 & 2 Story Building Reduced Wetland Buffer Overlap North-West Entry Very Separate Playfields
	A1.4b Add/Reno Plan	45k square feet	40 spaces	O cars	4 buses	2 (classroom + garden)	2 dumpsters + loading	 Maintains 1 & 2 Story Building Reduced Wetland Buffer Overlap South-West Entry Very Separated Playfields
PROGRAM NE	EDS	50-60k	80-95	TBD	4	2	2	

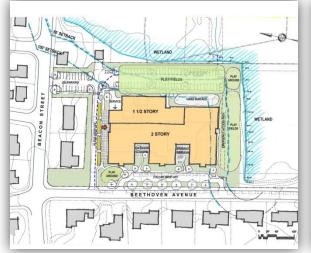
^{*}Car drop-off counts listed are within the property. Additional drop-off/cueing remains along Beethoven Avenue.

^{**} Any work within wetland buffers requires Conservation Commission approval

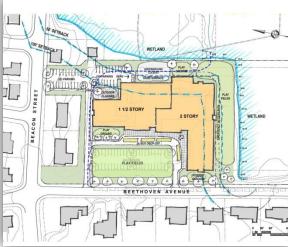




EXISTING SITE – RANGE of STUDIES:



A1.1b Multi-Wing Plan



A1.2b Elbow Plan - South



A1.2c Elbow Plan - North



Disadvantages:

- Dual Entry/Approach
- Within 25' of Wetlands
- Within 75' of Homes
- Minimal Play Space
- Parking Dominant Beethoven
- Bus Access via Beethoven
- Minimal Snow Storage and Bio-Swale Drainage Areas



A1.3b Pinwheel Plan



A1.4b Add/Reno Plan

Zervas Elementary School – Newton, MA

September 15, 2014





Site Program: Expanded vs. Non-Expanded

Program Goals	Program	Existing Zervas	Expanded Site	*Without Expansion
Site Acreage		3.5 usable	4.2 usable	3.5 usable
24 Classroom Building SF	78,800 SF	35,000 SF	✓	✓
Shared Building Entry (if walking, driven or bused)	single entry point	✓	✓	х
Staff Parking	80	44	75	52
Separate Bus and Car (Pick-Up and Drop-Off)	4 buses/20+ cars	х	✓	✓
Keep Bus Traffic Off Beethoven	Beacon bus loop	x	✓	х
Entry Plaza + Gathering Space	8K SF	via lawn (8K SF)	✓	2K SF
Playgrounds + Fields	60K SF	43K SF	✓	50K SF
Outdoor Garden + Classroom	2,500 SF	✓	✓	✓
Walker Friendly + Enhanced Pedestrian Paths	separate from cars	х	✓	students cross traffic
Snow Storage	6K SF	4K SF	✓	0 SF
Drainage/Bio-Swales	8K SF	0 SF	✓	0 SF
Minimize Wetland Impact	no pavement within 25' buffer	x	✓	х
Minimize Massing Near Adjacent Properties	100'+ away	126'	115'	75'

LEGEND

meets program

does not meet program

* Based on Option A1.2C







EXPANDED SI		SITE PI	ROGRA	M ELEN	MENTS		OTHER NOTES	
6.0 acre site (4.2 use	able including setbacks)	Play Space	Parking	Car Drop*	Bus Drop	Outdoor Learning	Service	Including Wetland Buffers**
	EXISTING Pinwheel Plan	43k square feet	44 lined	O cars	1 bus	2 (classroom + garden)	2 dumpsters + loading	 Small Scale / 1 to 1-1/2 Story Building Wetland Buffer Overlaps = 25k SF West Facing Entry East/West Classroom Orientation Bus & Car Drop-Offs on Street
	A2.1b Multi-Wing Plan	50k square feet	80 spaces	10 cars	4 buses	2 (classroom + garden)	2 dumpsters + loading	le Hiddon / North Entry
	A2.2b Elbow Plan - South	50k square feet	80 spaces	15 cars	4 buses	2 (classroom + garden)	2 dumpsters + loading	 Wetland Buffer Overlap = Existing North West Entry Separate Playfields + Rd Crossing Long / Narrow Service Approach
	A2.3b Elbow Plan - North	58k square feet	80 spaces	30 cars	4 buses	2 (classroom + garden)	2 dumpsters + loading	 3-Story Along Beacon, 2 Story Behind Reduced Wetland Buffer Overlaps South West Entry Diverts Culvert
00000000000000000000000000000000000000	A2.3c Elbow Plan - North	50k square feet	80 spaces	30 cars	4 buses	2 (classroom + garden)	2 dumpsters + loading	2 Story Reduced Wetland Buffer Overlaps South West Entry Tight Service & Perimeter Access Diverts Culvert
	A2.4 Box Plan	45k square feet	80 spaces	O cars	4 buses	2 (classroom + garden)	2 dumpsters + loading	 2 Story along Wetland, 1 Story Front Wetland Buffer Overlap = Existing North West Entry Narrow / Separated Playfields Building Plan Not Ideal (un-zoned)
PROGRAM NEEDS		50-60k	80-95	TBD	4	2	2	

^{*}Car drop-off counts listed are within the property. Additional drop-off/cueing remains along Beethoven Avenue.

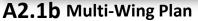




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EXPANDED SITE – RANGE of STUDIES:







A2.2b Elbow Plan - South

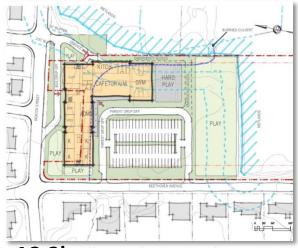
Preferred Option

Elbow Plan, Open to NW



Variant to be Studied

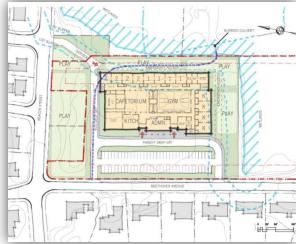
- Locate Centrally on Site
- Shift Away from Wetland (for contiguous play)
- Shift Back from Beethoven
- Refine Traffic Assessment



A2.3b Elbow Plan - North



A2.3c Elbow Plan - North



A2.4 Box Plan









SCHEMATIC DESIGN PROGRESS – SITE PLAN





Questions and Answers



SCHEMATIC DESIGN PROGRESS – PRELIMINARY ELEVATIONS





VIEW FROM BEACON/BEETHOVEN INTERSECTION



SCHEMATIC DESIGN PROGRESS – PRELIMINARY ELEVATIONS





VIEW FROM BEETHOVEN TOWARD BEACON



SCHEMATIC DESIGN PROGRESS – PRELIMINARY ELEVATIONS





Staff Parking Estimates

* Part-time staff work a variety of schedules and may be in the building each day for just a portion of the day, therefore needing their own parking spot. Also, some part-time staff overlap with one another (ie: Social Worker and Psychologist may each work 3-4 days a week) so sharing a space may be problematic. Some sharing of spaces is expected but overlap cannot be determined accurately at this point.

Curre	nt Enrollmer	nt	Projected Enrollment			
Position	Full/Part	# of spots	Position	Full/Part	# of spots	
16 teacher	full	13	20 teacher	full	20	
Kindergarten	full	3	4 teacher	full	4	
4 sped	full	4	5 sped	full	5	
1 IF	full	1	1 IF	full	1	
1 SW/1 Psych	part *	1 to share	1 SW/1 Psych	part *	2	
4 specialists	full	4	4+ specialists	full	4	
1 OT/1PT/1 VS	part*	1 to share	1 OT/1PT/1 VS/1 Adap PE	part*	2 to share	
2 S/L	part*	1 to share	2 S/L	part*	2	
2 ELL	part*	1 to share	2 ELL	part*	2	
1 principal	full	1	1 principal	full	1	
1 admin asst	full	1	1 admin asst	full	1	
1 nurse	full	1	1 nurse	full	1	
1 lit spec	full	1	1 lit spec	full	1	
1 math coach	part	1	1 math coach	part	1	
14 sped aides	full	14	20 sped aides	full	20	
1 custodian	full	1	2 custodian	full	2	
2 ISS	part*	1 to share	3 ISS	part*	2 to share	
1 building aide	part	1 to share	2 building aide	part*	1 to share	
1 lunch mgr	part	1	1 lunch mgr	part	1	
2 lunch aides	part	2	3 lunch aides	part	3	
Other itinerant	part*	1	Other itinerant	part*	2	
			1 asst princ	part*	1	
			•			
Total:			Total:			
59+ staff		56+ spots	81+ staff		79+ spots	





Program Comparison

Pre-Kindergarten w/ toilet Kindergarten w/ toilet Kindergarten w/ toilet General Classrooms - Gr. 1-6 PECIAL EDUCATION Self-Contained SPED Self-Contained SPED - toilet Resource Room Small Group Room / Reading Substantially Separate Classroom Learning Centers (K-2 & 3-5) Breakout Rooms (1 for each grade) ELL Program OT/PT Quiet Room (1 per academic floor) Speech & Language Reading/Literacy Classroom Inclusion Facilitators Literacy Specialist Math Coach IEP Conference Rooms Psychologist (office, testing, therapy & storage) Social Worker (office, testing & conference) Intervention Office RT & MUSIC Art Classroom - 25 seats Art Workroom w/ Storage & kiln Music Classroom / Large Group - 25-50 seats Music Practice / Ensemble Music Storage EALTH & PHYSICAL EDUCATION Gymnasium Gym Storeroom Health Instructor's Office w/ Shower & Toilet		ROOM TYPE
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Art Workroom w/ Storage & kiln Music Classroom / Large Group - 25-50 seats Music Practice / Ensemble Music Storage EALTH & PHYSICAL EDUCATION Gymnasium Gym Storeroom		
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Music Practice / Ensemble Music Storage EALTH & PHYSICAL EDUCATION Gymnasium Gym Storeroom		
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nealth instructor's Office w/ Snower & Tollet		
	не	aith instructors Office W/ Shower & Toilet
	Me	dia Center / Reading Room

		NGIER / 465 STU	MSBA IDENTS	ZERVAS SCHEMATC for 490 STUDENTS				
	NFA	QTY	TOTAL	NFA	QTY	TOTAL		
]								
			21,450			23,300		
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1	240	-	240	150	2	300		
1	925		925	900	1	900		
1	207		207	150	1	150		
1	140) 1	140	125	1	125		
1	127	7 1	127	125	1	125		
1	420) 1	420	400	1	400		
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4	198		198	200	1	200		
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-	2,763	3 1	2,763	2,875	1	2,875		
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Program Comparison

ROOM TYPE	
NING & FOOD SERVICE	
Cafeteria / Dining	
Stage	
Chair / Table / Equipment Storage	
Kitchen	
Staff Lunch Room	
EDICAL	
Medical Suite Toilet	
Nurses' Office / Waiting Room	
Examination Room / Resting	
DMINISTRATION & GUIDANCE	
General Office / Waiting Room / Toilet	
Teachers' Mail and Time Room	
Duplicating Room	
Records Room	
Principal's Office w/ Conference Area	
Principal's Secretary / Waiting	
Assistant Principal's Office	D
Supervisory/Spare Office +After School Conference Room	Pgm
Guidance Office	
Guidance Office Guidance Storeroom	
Teachers' Work Room	
Teachers Work Room	
JSTODIAL & MAINTENANCE	
Custodian's Office	
Custodian's Workshop	
Custodian's Storage Custodian's Storage	
Recycling Room / Trash	
Receiving and General Supply	
Storeroom	
Network / Telecom Room	
Total Building Net Floor Area (NFA)	
Total Building Gross Floor Area (GFA) ²	

0.000000000	GIER / 65 STU	MSBA DENTS	ZERVAS SCHEMATC for 490 STUDENTS				
NFA	QTY	TOTAL	NFA	TOTAL			
		6,366		6,663			
3,025	1	3,025	3,200	1	3,200		
996	1	996	1,000	1	1,000		
355	1	355	363	1	363		
1,470	1	1,470	1,600	1	1,600		
260	2	520	250	2	500		
		510			510		
51	1	51	60	1	60		
234	1	234	250	1	250		
112.5	2	225	100	2	200		
		2,318			2,515		
681	1	681	680	1	680		
included in	Gener	al Office	included in	Gener	ral Office		
included in	Gener	al Office	included in General Office				
62	1	62	60	1	60		
300	1	300	300	1	300		
included in			included in				
125	1	125	125	1	125		
450	1	450	650	1	650		
200	1	200	200	1	200		
0	0	0	0	0	0		
0	0	0	0	0	0		
250	2	500	250	2	500		
		1,861			1,865		
130	1	130	125	1	125		
0	0	0	0	0	0		
141	2	282	120	2	240		
185	1	185	200	1	200		
655	1	655	650	1	650		
	Recyc	ling Room	included in	Recyc	ling Room		
176	2	352	200	2	400		
257	1	257	250	1	250		
		49,943			52,403		
		74,960			78,800		
		1.50			1.50		
		1.50			1.30		



