

BOARD OF ALDERMEN 5-58 Site Plan Approval Hearing

Zervas Elementary School – Newton, MA November 12, 2014







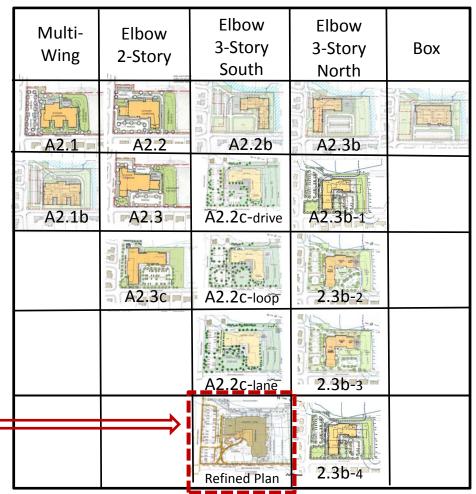


Overview of Design Studies

Existing Site Studies

Expanded Site Studies

Multi- Wing	Elbow 2-Story	Elbow 3-Story	Pinwheel	Add/Reno
A1.1	A1.2	A1.2b	A1:3	A1.4
A1.1b	<u>A1</u> .2b	A1.2c	- A1.3b	A1.4b





Preferred
Schematic
Option

Zervas Elementary School – Newton, MA







5.3 Acres (**3.5 Useable**) 35k SF Building

43k SF Play Areas

- + Outdoor Classroom
- + Outdoor Gardens

Plaza/Gathering on Lawn

8+ Bike Storage Dumpsters/Service

44 Parking Spaces (lined)

- 1 Bus Drop-Off (lined)
- O Car Drop-Off

(on-site totals listed)

SF Over 100' Setback*

(including 3 Beacon properties)

- 4.9k Building
- 20.4k Impervious Paving
- 25.3k Total in Setbacks School is Outside of 50' Buffer Paving is Within 25' Buffer
- *Per 2014 Flagged Wetlands

EXISTING SITE + EXPANSION PROPERTIES

Zervas Elementary School – Newton, MA











HISTORICAL COMMISSION:

30 Beethoven (listed 1954)
Preferably Preserved, Delay of
Demolition Expires 11/26/14

1338 Beacon (listed 1953) Not Preferably Preserved

1130 Beacon (listed 1952) Not Preferably Preserved

1316 Beacon (listed 1780)
Preferably Preserved
Records Indicate it was Built in

1840, relocated on site in 1897



EXISTING SITE + EXPANSION PROPERTIES

Zervas Elementary School – Newton, MA







6.0 Acres (**4.2 Useable**) 78.8k SF Building

60k SF Play Areas

- + Outdoor Classroom
- + Outdoor Gardens

8k SF Plaza/Gathering **36**+ Bike Storage Dumpsters/Service

72 Parking Spaces4 Bus Drop-Off20 Car Drop-Off(added drop-off lane)

SF Over 100' Setback*

10.9k Building (vs. 4.9k)

- +7.9k Imperv. (vs. 20.4k)
- +8.0k Porous Pavement

26.8k Total

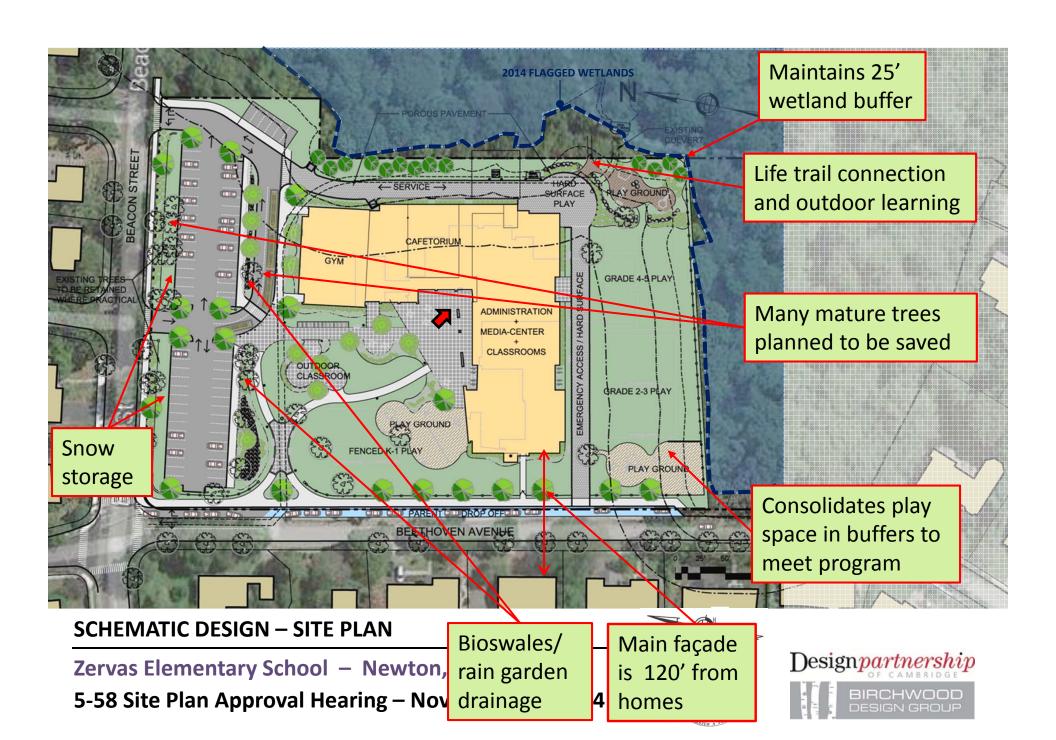
+4.1k Porous Playground Building is Out side 50' Buffer All Paving is Outside 25' Buffer *Per 2014 Flagged Wetlands

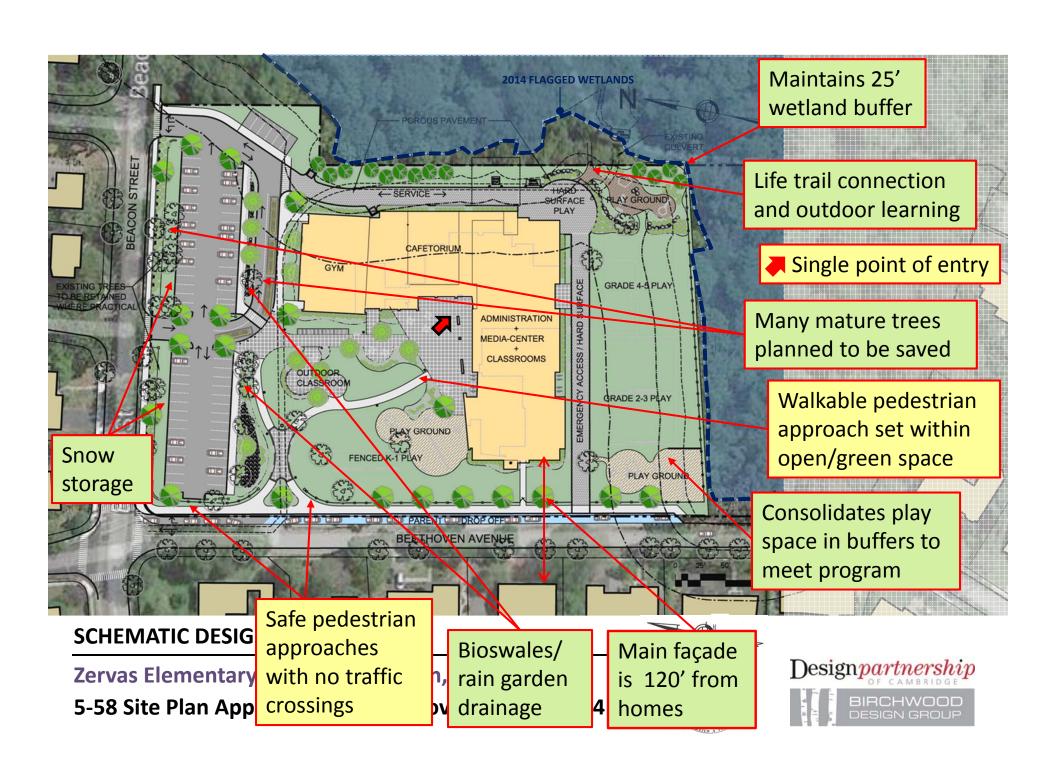
SCHEMATIC DESIGN – SITE PLAN

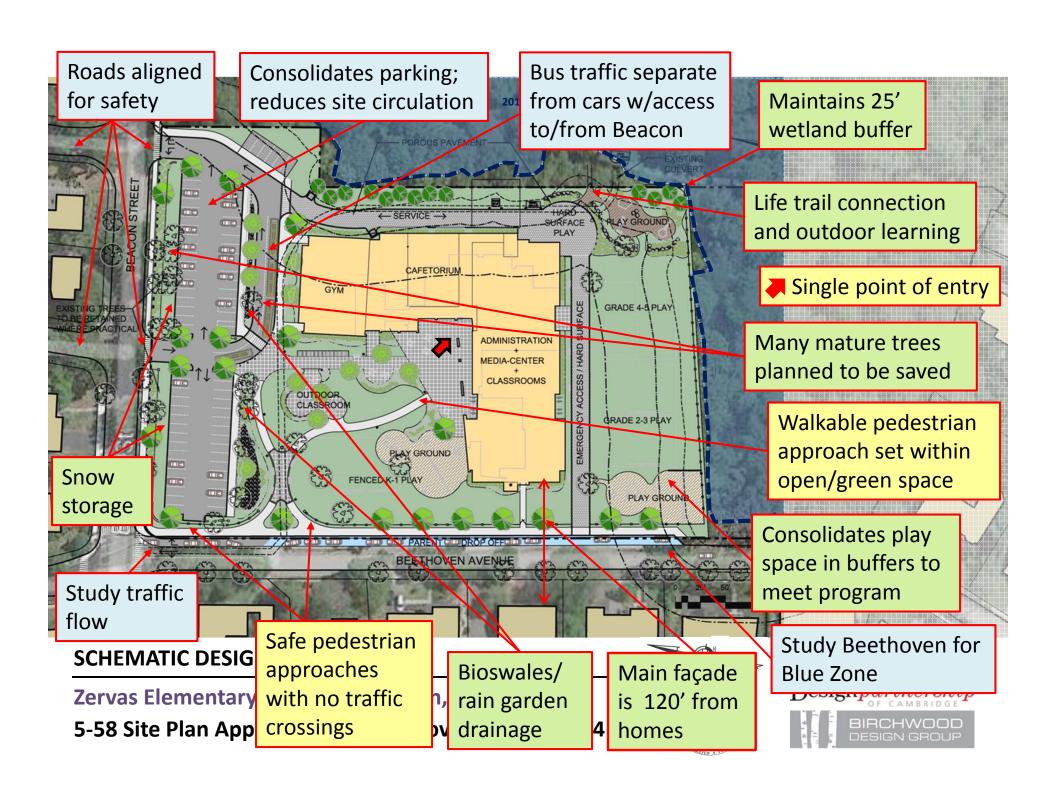
Zervas Elementary School – Newton, MA













SCHEMATIC DESIGN – FLOOR PLANS

Zervas Elementary School - Newton, MA





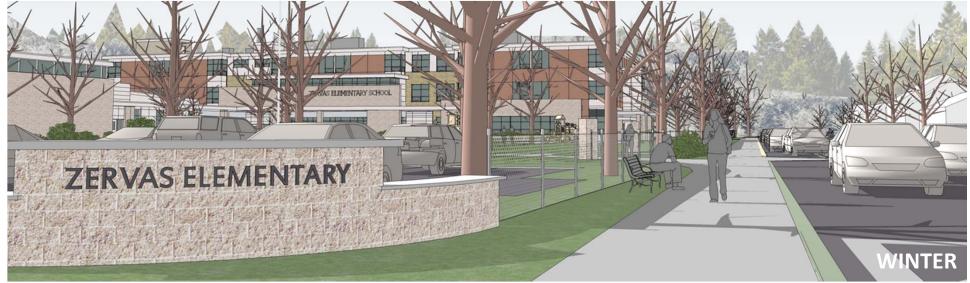


SCHEMATIC DESIGN – AERIAL VIEW









SCHEMATIC DESIGN – VIEW FROM BEACON/BEETHOVEN CORNER









SCHEMATIC DESIGN – VIEW FROM BEACON EXIT (EAST)









SCHEMATIC DESIGN - VIEW FROM BEETHOVEN TOWARD BEACON







SCHEMATIC DESIGN – END ELEVATION STUDY

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SCHEMATIC DESIGN – MATERIALS/PRECEDENT

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Budget: Construction Cost Estimate Update

Construction costs for the Zervas ES project are on budget per current estimates

- Two full independent cost estimates were developed based on the detailed Schematic Design documents: one by the Designer's Cost Consultant and one by the Construction Manager
- The Construction Manager, WT Rich, is also working on the Angier project so their cost and scope data is informed by the most current relevant precedent
- The two estimates were reconciled to a variance of less than 0.25% (\$74 K) indicating a consistent understanding of design intent and scope
- The higher of the two estimates was within 0.6% (\$170 K) of the \$29 M construction budget, which is negligible at this phase because the estimates include \$2.75 M in contingencies









Budget: Construction Cost Estimate Update (cont.)

The estimates include the full scope of work on the expanded Zervas site

- The estimates include all work on the three adjacent residential properties (which will be incorporated into the Zervas site)
- The potential work to develop and improve the Blue Zone (or any related Traffic work) will be covered in the \$3 M Off-Site Improvements line item within the \$40 M Total Project Budget
- No Value Engineering adjustments were required at this phase to align the project design with the construction budget, all program elements are included

Additional Cost Estimates will be developed at 3 key future project milestones

- Two sets of estimates will be reconciled to budget at the end of the Design Development, 60% Construction Documents and 90% Construction Documents phases
- The project team will deliver the Zervas school on schedule and on budget









Budget & Categories of Expenses for the New Zervas School Project

CATEGORIES OF THE BUDGET		BUDGET	ΕX	CURRENT (PENDITURES	EX	TOTAL PENDITURES	EN	TOTAL CUMBRANCES	U	NOBLIGATED BUDGET
FEASIBILITY STUDY (Includes A/E, OPM & CM PreCon)	\$	800,000	\$	98,498	\$	705,218	\$	787,194	\$	12,806
PROJECT ADMINISTRATION (Includes OPM)	\$	1,025,000	\$	-	\$	-	\$	-	\$	1,025,000
CONSTRUCTION CLERK OF THE WORKS INCLUDED IN OPM SERVICES UNDER PROJECT ADMINISTRATION										
BUILDING SYSTEM COMMISSIONING	\$	100,000	\$	-	\$	-	\$	-	\$	100,000
ARCHITECTURE & ENGINEERING	\$	2,800,000	\$	-	\$	-	\$	-	\$	2,800,000
PRE CONSTRUCTION SERVICES	\$	140,000	\$	-	\$	·	\$	-	\$	140,000
CONSTRUCTION	\$	29,000,000	\$	-	\$	-	\$	-	\$	29,000,000
OFF SITE IMPROVEMENTS (Acquisition/Blue Zone)	\$	3,000,000	\$	8	\$	*	\$	522,000	\$	2,478,000
FURNITURE/FIXTURES/COMPUTER EQUIPMENT	\$	1,200,000	\$	-1	\$	-	\$	-	\$	1,200,000
OTHER PROJECT COSTS	\$	270,000	\$	E4	\$	-	\$	-	\$	270,000
CONSTRUCTION CONTINGENCY	\$	1,365,000	\$	-	\$	-	\$	-	\$	1,365,000
OWNER'S CONTINGENCY (SOFT COSTS)	\$	300,000	\$	-	\$		\$	-	\$	300,000
TOTAL PROJECT EXPENDITURE BUDGET	\$	40,000,000	\$	98,498	\$	705,218	\$	1,309,194	\$	38,690,806

Total Value of CM Change Orders Submitted to Date	\$ -
Total Number of CM Change Orders Submitted to Date	0

Construction Completion Rate (%)	NA
Projected Construction Start Date	January 2016
Substantial Completion Date	July 2017
Final Project Completion Date	Fall 2017

NOTES:

Current approved project funding is \$1 M for FSSD plus \$2.7 M for Property Acquisition

Expenditures are listed "as submitted" to the City, some expenditures may not yet be processed by the City of Newton

Expenditures and Encumbrances are rounded to the nearest whole dollar

The potential cost of concrete slab moisture mitigation will be covered under Construction Contingency

Construction budget include demolition of 3 existing adjacent residences and development of those sites

Off Site improvements include potential acquisition of adjacent residential properties and reconstruction of the Blue Zone on Beethoven Street

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Project Milestone Schedule

Start	Finish	Activity	
August-13	October-13	OPM Selection	
October-13	January-14	Designer Selection	
January-14	June-14	Feasibility Study/Options Analysis	
July-14	September-14	Schematic Design	
	September-14	SD Cost Estimates and Reconciliation	
October-14	November-14	Site Plan Approval and 5-58 Funding Approval	
November-14	March-15	Design Development	
February-15	March-15	DD Cost Estimates & Reconciliation	
	March-15	DD Local Approval	
March-15	September-15	Construction Documents	
	July-15	60% CD Cost Estimates and Local Review	
	September-15	90% CD Cost Estimates and Local Review	
	October-15	Bidding	
	November-15	Develop Guaranteed Maximum Price Construction Contract	
November-15	December-15	Construction Mobilization and Procurement	
	December-15	Zervas Faculty and Students relocate to Carr Facility	
January-16	July-17	Construction of new Zervas School	
July-17	August-17	Fit out, furnishing, and NPS occupancy of New Zervas School	
	September-17	New Zervas School opens for students	

Zervas Elementary School - Newton, MA









Community, Safety and Logisitcs

OUR COMMITMENT

To assure the health and safety of the general public while minimizing disruption to the local community and enabling cost-effective progression of the work



- ✓ Site-specific safety plan
- ✓ Erosion control plan / order of conditions
- ✓ SWPPP plan
- ✓ Dewatering plan
- ✓ Worksite egress and access
- ✓ Barricades and signage
- ✓ Dust control
- ✓ Noise control
- ✓ Delivery blackout periods
- ✓ Parking and traffic management
- ✓ Neighborhood Management plan









