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HISTORIC SCHOOLS:

RENOVATION vs. REPLACEMENT & THE ROLE OF A FEASIBILITY STUDY

Weighing the pros and cons of renovating a historic neighborhood school or building a new one takes preservation "know-how," experience and creativity. As school districts face the challenge of trying to satisfy educational programmatic requirements, the latest trends in teaching methods and integrating new technology, the historic neighborhood school is not always given full consideration. Prevailing assumptions that a newer school will result in a better education or perceptions that historic school buildings have unfixable flaws also place historic neighborhood schools at risk. The potential for renovation is routinely dismissed without full consideration of the facts and long-term implications.

Central to this decision-making process is the feasibility study, often conducted by an architectural consultant hired by a school district. A feasibility study of the issues involved in renovation is the only tested way to evaluate the fit of an old building to contemporary educational uses. In its most basic form, a feasibility study helps establish if renovation of a historic school is possible, practical and whether it can meet the proposed educational needs. Not simply a cost-benefit analysis, a feasibility study evaluates technology needs and barriers, scheduling to complete a school construction project from start to finish, options and alternatives, and potential implications of decisions to the surrounding neighborhood and community.

Potential problems persist including feasibility studies of historic schools conducted by inexperienced architects, inflated and exaggerated cost estimates for renovation, limited or no community input, a bias against historic, hidden costs not accounted for, and minimal consideration for impacts to a community.

A biased or incomplete feasibility study will not fully inform the general public or school district about all options. The below feasibility study checklist can help identify the factors involved in making the best decision and assuring that a feasibility study for your historic neighborhood school is fair, objective and reasonable. It will also assist in identifying "warning signs," questions to ask, and knowing what to look for when challenging the results and projected cost estimates of a feasibility study.

Consultants: More often than not, school districts hire architects and professionals who know a lot more about designing new buildings than renovating older ones. Not all architects have training, experience or an interest in the subspecialty of historic rehabilitation. Many architects are unfamiliar with, or biased against, renovation options.

aga	ainst, renovation options.
	Does the consulting architect have experience with historic preservation and/or
	specialize in historic school renovations? If so, can you review previous work? If
	not, has the architect consulted with historic preservation specialists?
	Are there any inherent conflicts of interest? Is the consultant the likely architect
	for the new or rehabilitated school and do they have an interest in new
	construction?
	Can the architect be unbiased, fair and objective?
	How was the architect selected? Was it an open-bid process, request for
	proposals (RFP), or pre-selection?
	Is part of any funding assistance from the State and, if so, is there a review or
	approval process prior to selection of the architect?

Hidden Costs: In addition to the known costs for					
designing and constructing a new school, there may be					
hidden costs that don't enter into discussions. What are					
the real costs of building on a new site? Often these					
figures are inadvertently or purposely omitted from the					
final cost estimate.					
☐ If the new school will be built on an undeveloped site,					
there will be added costs to purchase and develop					
the land and to build roads, sewers and other					
infrastructure. Are these figures included in the					

Study!
What is the availability and cost of additional
transportation to the new site (i.e. busing)? Will
more children be bussed to the new school? If so,
what are the added costs?

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- ☐ If the historic school is planned for demolition, there will be costs to demolish it, abate hazardous materials and dispose of debris (often 4 to 5% of the overall replacement costs). Were these costs included in the final estimates?
- □ Renovating an existing building general saves 20 to 25% of the cost of new construction as the building shell is retained. Do cost estimates reflect this savings?
- ☐ If the historic school is already scheduled for abandonment, are costs to stabilize, maintain and upkeep, secure and dispose of the building included?
- □ What are the indirect costs to the community? How will a vacant, boarded-up school impact the surrounding neighborhood, influence marketability, stability and affect the area's property values?
- ☐ If a mega-school is proposed in remote, outlying areas, what are the costs of sprawl that usually follows, i.e. bussing, infrastructure, etc.?
- □ Do cost estimates for a building contingency (cushion) accurately reflect unknown or anticipated cost overruns for both rehabilitation and new construction?

Building Codes: Most existing and recently built school buildings will not comply with every code provision at the local and state levels. Despite the flexibility of many codes and the potential for waivers, often studies rigidly interpret this compliance, declaring a building unsafe or cost prohibitive to retrofit.

- ☐ Did the feasibility study investigate and address code compliance options or alternate codes for historic buildings in your jurisdiction, such as early warning systems?
- ☐ If seismic retrofit is applicable and proposed in the study, was an engineer familiar with historic buildings consulted?
- Can a new addition to an historic school preclude the need for a proposed demolition by meeting

- programmatic objectives and satisfying modern code requirements?
- □ Have important character defining and historic elements of the school been adversely impacted to satisfy code requirements? If so, were alternatives considered?

Public Participation and Community

Planning: The decision-making process associated with a feasibility study is not always open to the public or outside input. Citizens are more often than not excluded entirely and feel powerless. A study conducted behind closed doors does not consider all viewpoints or build trust and support from within the community.

- Were there public meetings or charrettes asking what the community wanted? If so, did they allow for community input?
- ☐ Was a citizens or advisory committee formed to help explore the options and issues?
- Does the feasibility study consider the community use of the school, such as after-school programs or public meeting space?
- □ Are public meetings inclusive or instead dominated by corporations, developers, construction company owners, architects or others biased in favor of building a new school?
- ☐ Did the study consider a community's local planning program, zoning, comprehensive or master plan?
- ☐ Does the study consider any review or approval process at the state or federal levels?
- Were site visits made to other successfully rehabilitated historic schools? If so, did this involve a cross-representation of citizens?
- ☐ Who reviews the feasibility study results and what are their qualifications? Is anyone involved with an expertise or interest in historic preservation?

Historic Significance: Historic designation will often invoke environmental review requirements that help ensure alternatives to demolition are adequately considered. Conversely, designation could make the project eligible for alternative building code requirements and additional funding sources.

- ☐ What is the school's significance? Was this accurately reflected within the study?
- What is the cultural significance within the community?
- ☐ Does the study consider the implications of any local, state or national designation, such as any mandatory review process?
- ☐ Has a district-wide survey been done to assess the most important schools in the community? If so, was this information considered in the study?

Funding Considerations: A feasibility study	☐ Do you have first-hand information? Meaning is the		
may add or omit certain expenses in order to skew the	info. presented second-hand, and therefore		
analysis in favor of new construction. For example, the	potentially misunderstood or misrepresented?		
estimate for a new school might leave out demolition or	Schoduling: Timing is another critical factor when		
site development costs. An accurate and	Scheduling: Timing is another critical factor when		
comprehensive cost comparison between renovation	considering any option. Can work be accomplished		
and new construction will help level the playing field.	during the summer months, phased over several years		
Does the funding source tie the feasibility study to any reviews or requirements?	or students housed in temporary quarters? These decisions often impact the viability of rehabilitating an		
☐ Is the study accurately considering life-cycle costs	historic school.		
and forecasting future costs for both new	 Does the study outline logistics and potential for disruption to students for both rehabilitation and new 		
construction and rehabilitation? Building	construction?		
components deteriorate at different levels and costs	☐ What is the total timetable proposed for all options,		
fluctuate year by year. A life-cycle analysis that uses	from start to finish?		
a fixed rate of deterioration will lead to inaccurate	 Does the study consider creative alternatives such as 		
results. What is the life expectancy of the new	phasing work?		
school?	Measuring building conditions can be a subjective		
 □ Are funding opportunities, such as matching-grants, associated with historic designation taken into 	process where historic schools are often ranked as		
consideration in the final cost estimate?	"poor" without any objective and quantifiable		
□ Does the locality or state have arbitrary formulas	indicator of measure. An objective rating system and		
mandating new construction as a certain threshold of	criteria that allow for comparisons between the		
spending. If so, is this indicated within the study?	subject school and others within the same district		
openang. It so, is the maisted within the study.	would be more reliable.		
Site Plan and Building: The abandonment of	What criteria are used for the building conditions		
historic schools is often justified in terms of their	evaluation?		
incompatibility with modern educational specifications,	 Do they reflect age, type of construction, apparent 		
such as minimum acreage and classroom size	condition and design adequacy, life expectancy,		
standards. More often than not, these specifications are	feasibility of renovation, mechanical adequacy?		
merely guidelines that can be accommodated by	☐ If school buildings were ranked by excellent, very		
adopting creative solutions – although school board	good, good, fair, poor (or a similar system), does the		
officials are often under the impression that	study provide definitions for each?		
"standards" or "recommendations" are hard and fast	Educational Programming: Standards for		
"requirements."	school facilities are set by the education agency of each		
☐ Are proposed expansive playing fields, facilities and	state and vary from state to state. Local school districts		
arbitrary athletic guidelines influencing the decision	also set standards, often favoring new construction.		
to build new? Are these requirements or preferences?	☐ Are educational specifications influencing the		
☐ Does the study consider creative partnerships with	outcome of the feasibility study and driving the		
city park agencies, nearby churches, public transit	decision to abandon the historic school? If so, do		
agencies and other institutions to share playing	any state or federal guidelines mandate these or are		
fields, parking spaces, or transportation services?	they produced locally?		
☐ How will the new land be acquired? If donated by a	Who wrote the program and does it have any		
developer, what are the implications and have the	inherent biases?		
pros and cons and overall suitability of the site for	☐ What are requirements versus desirables? Must an		
use as a school been considered in the study?	elementary school be one-story or is that a local		
☐ Have local or state variances been considered, such	preference?		
as for expansive parking lots or acreage standards?	What is the current and projected enrollment for a		
☐ Does the study account for the relocation of walls or	school? Is overcrowding an issue and will a new		
use of hallway square footage to enlarge	school solve this problem?		
classrooms?	☐ Can the historic school accommodate the needed		
☐ Have spaces been considered for new uses, such as	educational programs? If not, does the study outline		
former libraries for media centers?	why and what sorts of spaces are needed.		

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	omponents of Feasibility Study: Before under							
fits	scope of a feasibility study is a key step. As each historic school, community and region is unique, there is no one size fits all approach to conceiving a feasibility study. Instead, on a case-by-case basis, design the feasibility study to							
	Programmatic Fit by Schematic Analysis. Using the same architectural program developed for a new school, a design professional explores ways in which the existing building can be modified to meet the educational needs of the curriculum. The work product is typically a schematic diagram of spaces and rooms overlaid to the current floor plan of the school, by which the extent of change necessary is self evident. Additions that do not fit within existing space are also shown.							
Ве	low is a general breakdown and common steps of a feasibi	lity s	tudy:					
sit	cument existing conditions of building(s) and e against proposed use and programming	CO	aluate historic significance/importance to mmunity					
	eds. Structural systems (including seismic, where applicable) Building envelope (windows, roof, gutters, etc.)		Eligibility criteria Local, state or national historic designation(s) Physical integrity Period of significance for school					
	Compliance with building codes Plans and site (ADA accessibility/compliance, parking, transportation, etc.) Materials and finishes		epare physical feasibility drawings Schematic or existing floor plans Façade renderings					
	Health and life safety (fire systems, lighting, alarm, egress, sprinklers) Hazardous materials (asbestos, lead paint, contaminated soil, etc.)		esent full range of options/alternatives with os and cons of each Renovate?					
	HVAC, mechanical, electrical, plumbing		Renovate with additions? Replacement onsite with demolition? New construction on new site with abandonment?					
	Sq. ft. analysis for each component of the school All classrooms (size, configuration)		Adaptive use?					
	Support systems (office, conference, etc.) Gymnasium/auditorium (capacity, acoustics) Athletic/recreation needs Cafeteria/"cafetorium"		fine scheduling Schedule of construction and timing for bringing school back online Any phasing Need to house students temporarily					
	entify technology specifications TV, intercoms, telephone, internet access, network cabling		esent cost estimates and economic analysis Broken down by each option (including initial cost, present value, operating cost, real estate value,					
	entify security specifications Surveillance cameras, controlled/points of access	Ma	and life cycle cost analysis). ke recommendations					

Identify community needs/interest
 □ Community outreach and public input
 □ Role of school in adjacent area/community

Quantifiable with rationale.

The National Trust for Historic Preservation's Historic Neighborhood Schools Initiative is aimed at leveling the playing field and putting renovation of historic neighborhood schools on an equal footing with construction of new schools. We believe that preserving historic neighborhood schools is of great importance not only to the historic preservation community, but also to advocates of better schools and better environments for school children. The National Trust has developed a multi-year strategic plan to promote the continued use of historic neighborhood school buildings as schools. This fact sheet cites Information from various sources, including National Trust publications, <u>A Community Guide to Saving Older Schools</u>, and <u>Why Johnny Can't Walk to School www.nthp.org/main/abouttrust/schoolshome.html</u>