# ELIZABETH G. LYONS ELEMENTARY SCHOOL



RANDOLPH, MA



### **BUILDING COMMITTEE PRESENTATION**

JUNE 23<sup>RD</sup>, 2021



### LYONS ELEMENTARY SCHOOL | GOALS OF THE MEETING

- 🐼 walk Boston
- Cost Estimate Update



## LYONS ELEMENTARY SCHOOL | WALKBOSTON UPDATE





**TSKP** STUDIO

in Motion

Philip G. Coburn Elementary Walk Audit West Springfield, MA

Centers for Disease Control and Prevention Division of Community Health/Community Transformation Grant

**AEDALUS** 

Mass in Motion, an initiative of the MA Department of Public Health

MAKING MASSACHUSETTS MORE WALKABLE



#### **Key Issues and Recommendations**

Overall, the pedestrian infrastructure immediately surrounding the Coburn School is safe and in good condition. Children have smooth, wide sidewalks to walk on and crossing guards regulate traffic at arrival and dismissal times. The areas of primary concern are road crossings on the southeast and southwest sides of the school. Below is a summary of the issues observed on the walk audit and preliminary recommendations that address these safety concerns.

1. Road crossings on Elm Street feel dangerous and provide no signal protection for walkers.

EIm Street/Garden Street crossing Students walking from the west side of EIm Street to the Coburn School use the crosswalk just south of the EIm Street/Garden Street intersection. This intersection was the site of a pedestrian fatality in December 2014. EIm Street was recently converted from a four lane, median-separated road to a two lane, median-separated road with parking lanes on both sides. The crosswalks are well marked. Parking is prohibited within 20' of the crosswalk which improves the visibility of walkers to oncoming traffic. Pedestrian crossing signs are also present.



The crosswalk at Elm Street and Garden Street is a popular crossing point for Coburn students. A crossing guard monitors this area.

#### Recommendations:

 Install curb bump-outs at the crosswalk locations to reduce the crossing distances for pedestrians and further discourage drivers from parking near the crosswalks.

- Consider installing Rectangular Rapid Flashing Beacons similar to those found at the US Post Office crossing.
- Work with the police department and engineering department to monitor driving speeds and volumes at this crossing. If traffic speeds are an issue, then prioritize this area for traffic enforcement. If traffic volumes are low enough, continue to implement road diet strategies to reduce the width of the travel lanes and roadway.



The crosswalk in front of the US Post Office on Elm Street has a Rectangular Rapid Flash Beacon and curb bump-outs.

Elm Street/Westfield Intersection The Elm Street/Westfield intersection poses danger to pedestrians, particularly those new to the area who do not understand the phasing of the traffic signal. Most students attending the Coburn School do not use this intersection to reach the school, but they may use it to reach other destinations before or after school. There are no pedestrian signals and it is difficult to anticipate when drivers will be given a green light. The City engineer mentioned that this intersection is under study and traffic counts are in process. This section of Elm Street has two travel lanes and two parking lanes on each side of the median. There is one marked crosswalk arcnse Westfield Street, and one marked crosswalk arcnse Westfield Street.

## Swalk Boston

MAKING MASSACHUSETTS MORE WALKABLE

#### **Pedestrian safety**

Reduce the number of walkers killed / injured statewide.

#### Walkable communities

Engage & build community through walk audits, workshops, & advocacy training.

#### Age-friendly walking

Adopt policies and practices that increase safety for children and older adults.

#### **Transit connections**

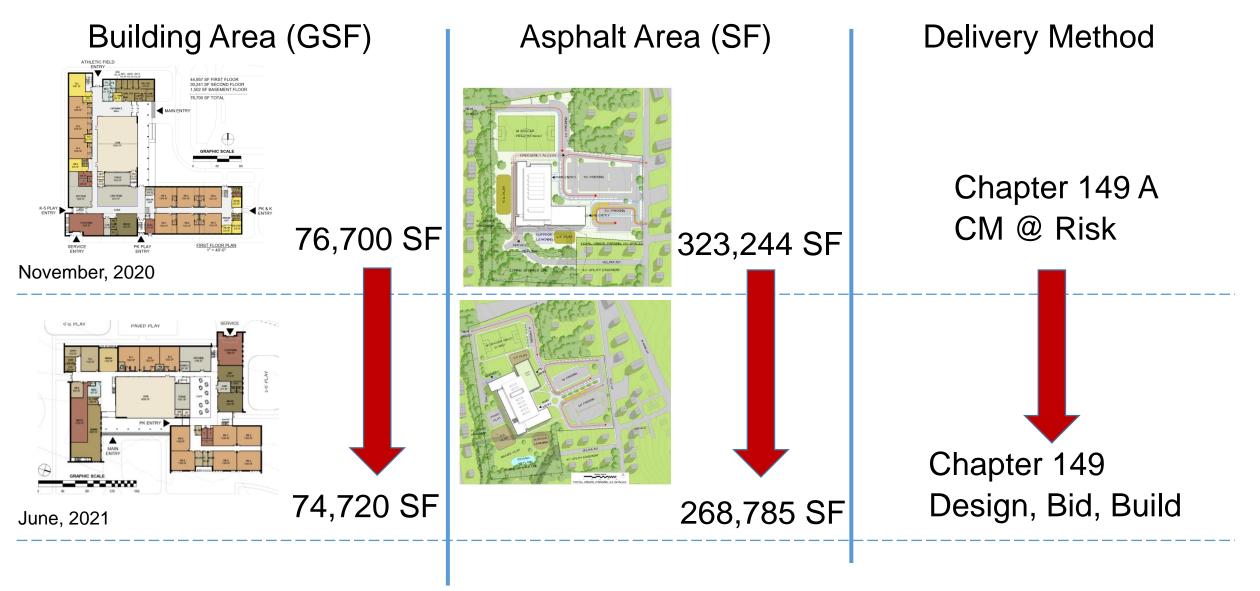
Promote safe walking connections to transit statewide.

#### Walking policy & design

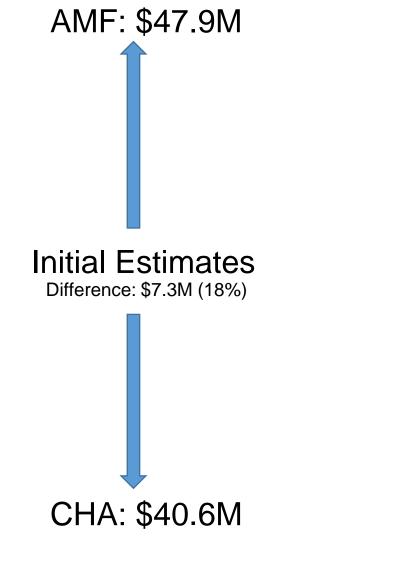
Influence projects, policy, and legislation on local, state, & national levels.

#### walkBoston to :

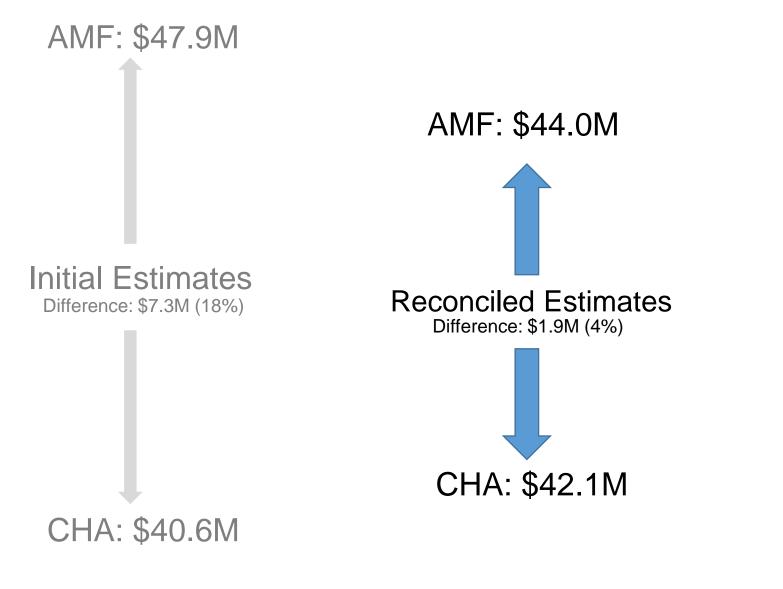
- identify access issues
- make recommendations to improve pedestrian access



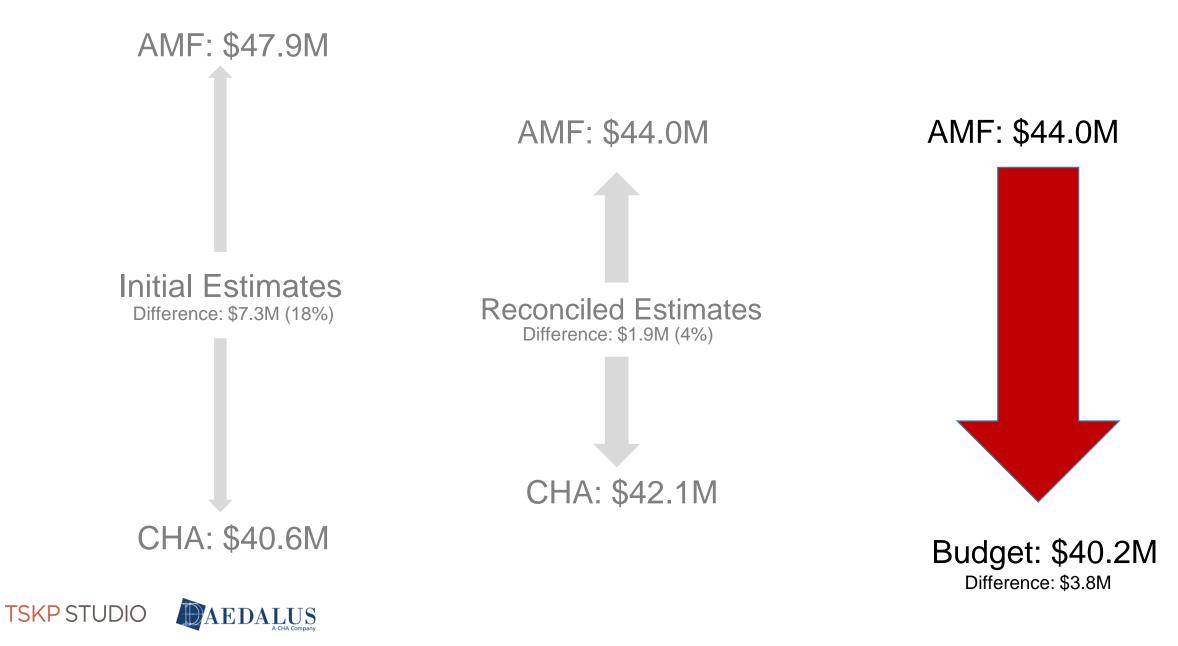
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#### LYONS ELEMENTARY SCHOOL | COST REDUCTION – HOLISTIC APPROACH

CATEGORY	COST REDUCTION VALUE
Structure	\$226,609
Shell	\$981,101
Interior	\$1,024, 681
Services	\$1,004,428
Sitework	\$803,810
Total	\$4,040,629



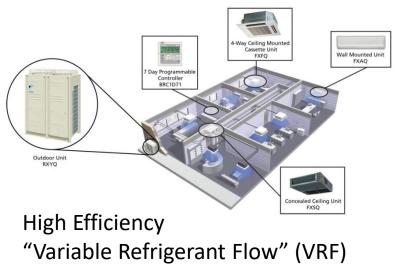
CATEGORY	COST REDUCTION VALUE	Five Cost Red	duction Items
Structure	\$226,609	Shell #9:	Eliminate rooftop clerestory windows. (\$189K)
Shell	\$981,101	Services #1:	Change hydronic radiant heating panels. (\$911K)
Interior	\$1,024, 681	Site #1:	Change granite curbs to concrete. (\$126K)
Services	\$1,004,428	Site #2:	Change playground surfacing to engineered wood fiber. (\$181K)
Sitework	\$803,810	Site #3:	Remove Dow/Mitchell Street extensions from
Total	\$4,040,629		the project. Possible Add-Alternate. (\$280K)





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Shell #9: Eliminate rooftop clerestory windows. (\$189K)



**Option #1: Change from hydronic to electric radiant heating panels.** 

Pros:

Lowers first cost.

Decarbonization. Reduced reliance on fossil fuels (natural gas).

Cons:

Electric costs more to operate – higher utility bills.

**Option #2: Eliminate radiant heating panels. Use VRF for heat. Upgrade windows.** 

Pros:

Lowers first cost.

Decarbonization. Reduced reliance on fossil fuels (natural gas).

Envelope efficiency is improved.

Cons:

VRF loses efficiency in low temperatures.



Services #1: Change hydronic radiant heating panels. (\$911K)



Granite Curb



#### Concrete Curb



Site #1: Change granite curbs to concrete. (\$126K)



Poured in Place Rubber Playground Surfacing

Site #2:

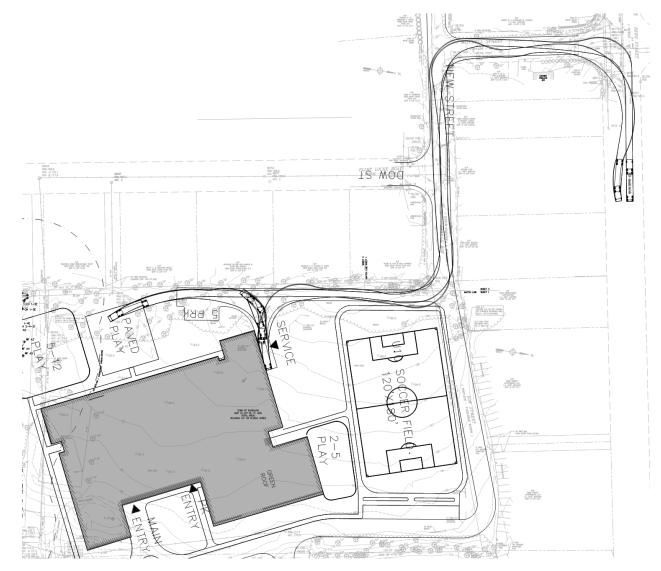


Engineered Wood Fiber Playground Surfacing



Change playground surfacing to engineered wood fiber. (\$181K)

Site #3:





Remove Dow/Mitchell Street extensions from the project. (\$280K)