### W. EDWARD BALMER SCHOOL

#### NORTHBRIDGE, MA SCHEMATIC DESIGN

# SCHOOL BUILDING COMMITTEE MEETING







Massachusetts School Building Authority Funding Affordable, Sustainable, and Efficient Schools in Partnership with Local Communities



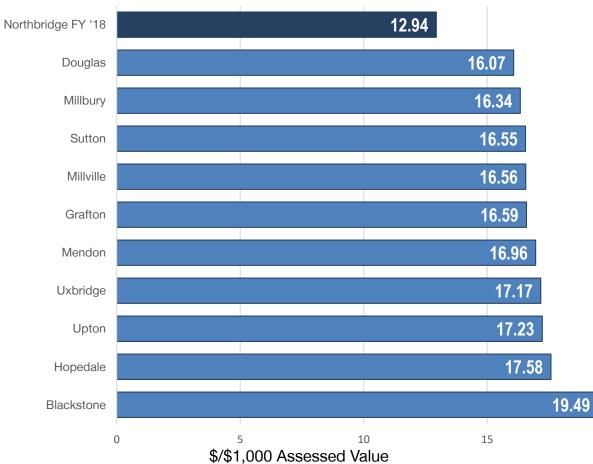
**JUNE 25, 2018** 

- Regional Tax Analysis
- Neighborhood Meetings Recap
  - 1. Vail Field sizes
  - 2. Site Design Stormwater
  - 3. Site Acoustical Design
  - 4. Selected Backyard Views
  - 5. Selected New Slides from Neighborhood Meetings
  - 6. Questions, Comments, Feedback

### REGIONAL TAX ANALYSIS

#### **RESIDENTIAL TAX RATE – CURRENT LEVEL**

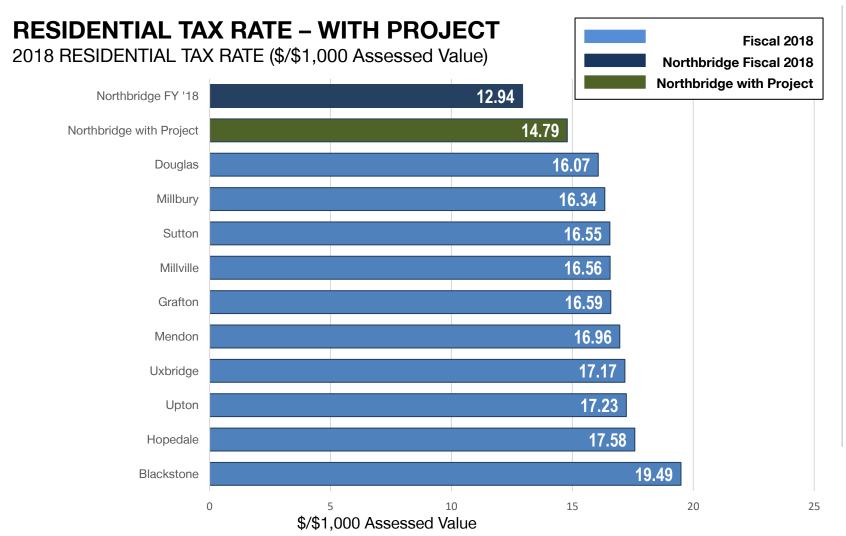
2018 RESIDENTIAL TAX RATE (\$/\$1,000 Assessed Value)

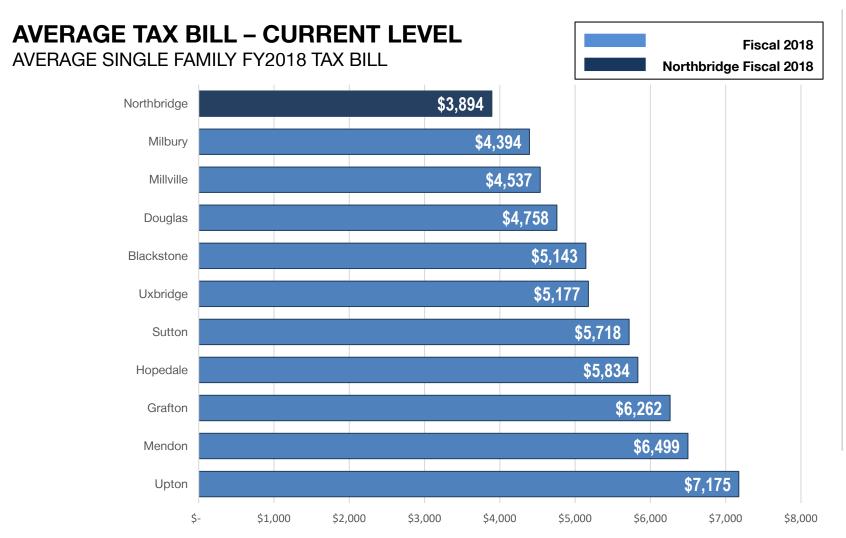


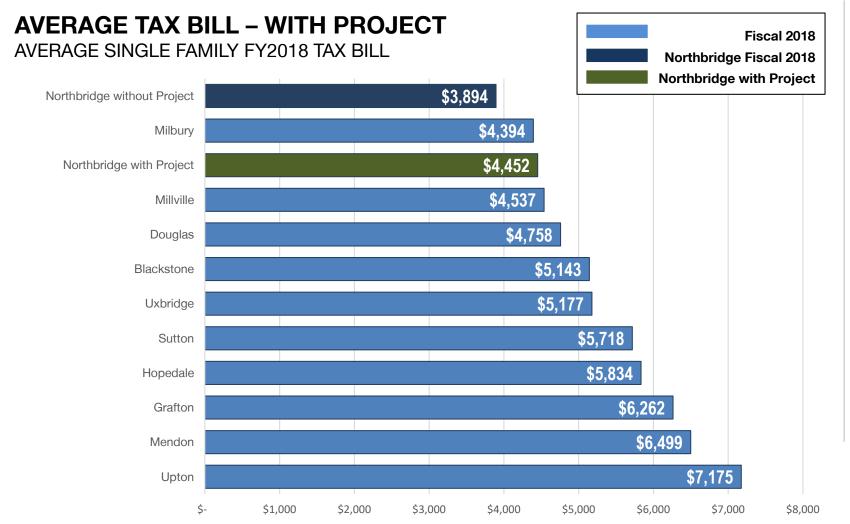


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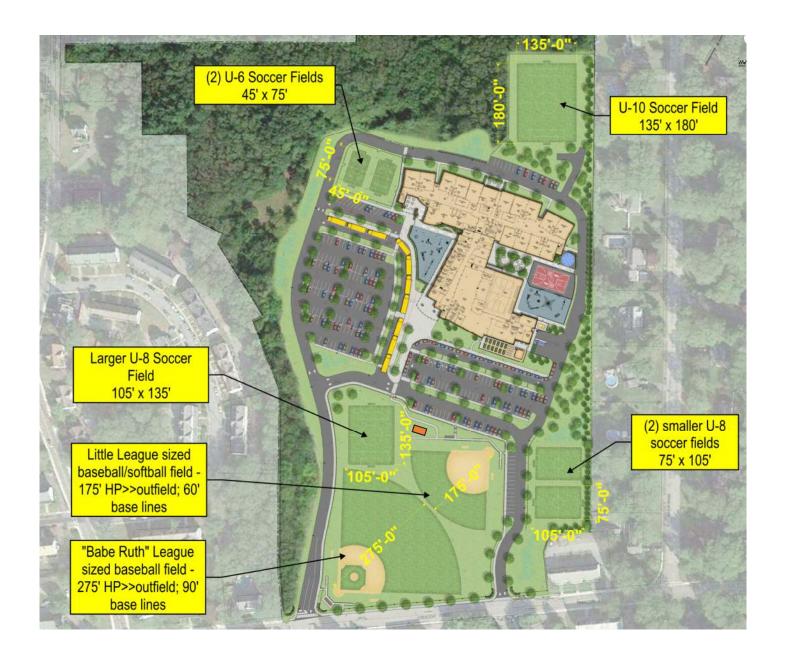
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### VAIL FIELD SIZES





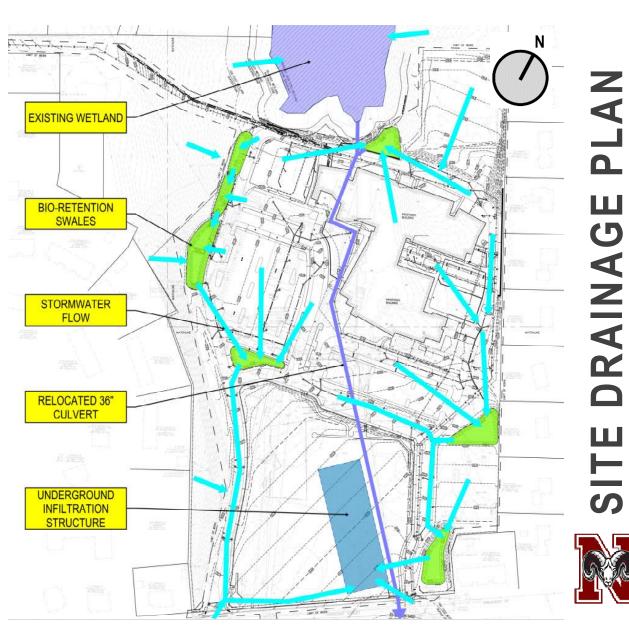
SITE PLAN



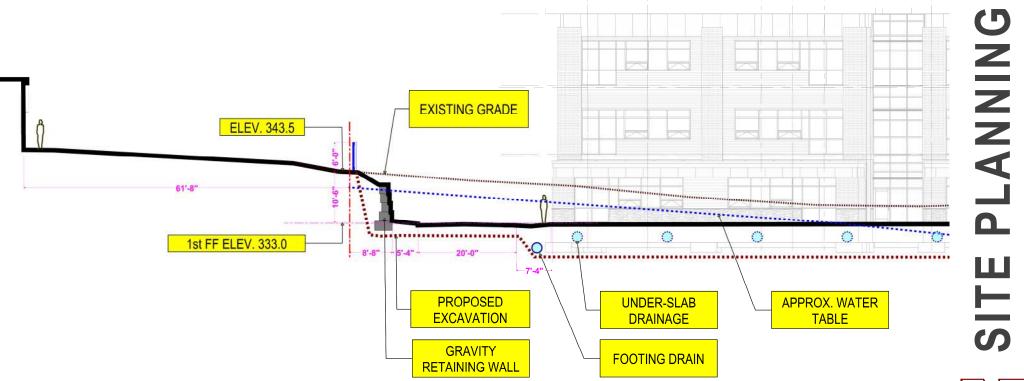
### SITE DESIGN-STORMWATER

### STORMWATER DRAINAGE

- Present site does not comply with MA stormwater regs.
- New site is a system of bioretention swales that drain into underground infiltration
- New site meets MA regs, no
  increase in peak flows



#### SITE SECTION SHOWING PROPOSED DRAINAGE





### SITE ACOUSTICAL DESIGN











### PROPOSED SOUND CONTROL MEASURES

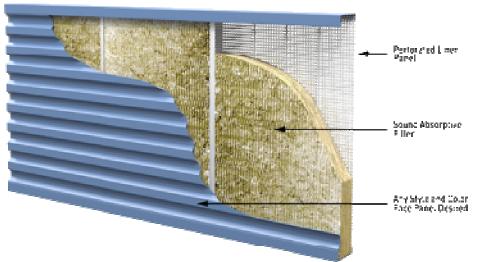
- 6' wood stockade fence at property line
- Dense planting buffers
- Road bermed and down-slope from houses
- Distance
- Trucks: No idling policy (conforms with LEED)

Mechanical Equipment:

- Select quieter equipment
- Specify sound attenuators and wraps
- Use sound-absorptive rooftop equipment screens that direct sound upward







#### SOUND-ABSORPTIVE ROOFTOP EQUIPMENT SCREENS

# ACOUSTICS SITE

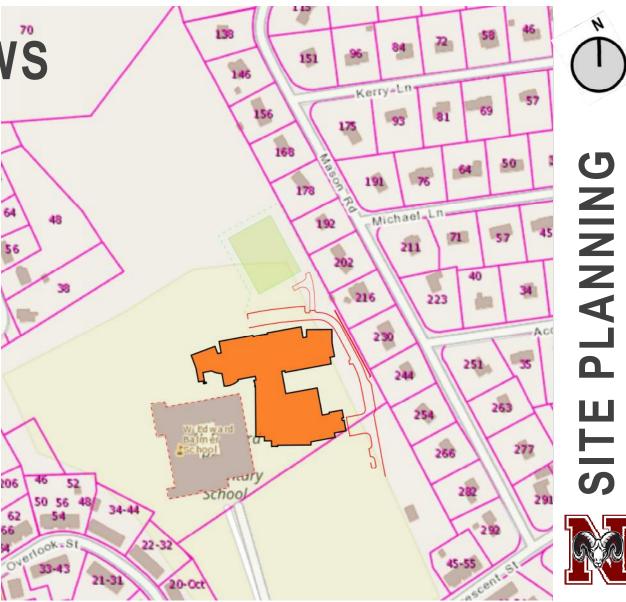


- Measure background noise levels at key points on site:
  - Neighbors' back yards/ houses
  - Property line at each residence
- MA DEP policy
   – no more than +10dB louder than existing background noise
- <10 dB becomes design goal
- Employ design strategies as listed

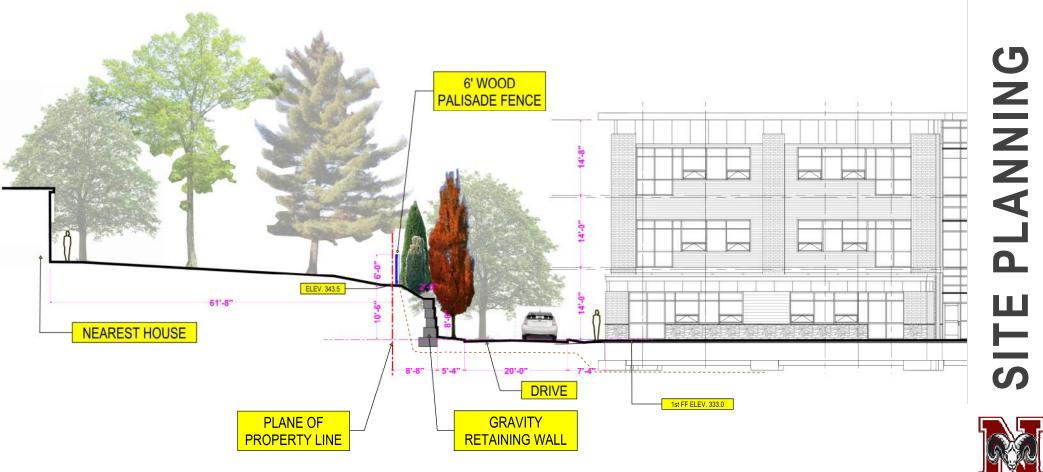
### SELECTED BACKYARD VIEWS

### **BACKYARD VIEW**<sup>®</sup>

- Respected privacy of neighbors
- Computer model of building and site elements
- Trees and shrubs approximate mature growth shown
- Houses and sheds approximate
- No swimming pools or patios shown
- Private fences and landscaping approximate



#### **EAST PROPERTY LINE – SITE SECTION**





Backyard view north of soccer field, looking southwest



Backyard view near soccer field, looking southwest



Backyard view near classroom wing, looking west



Backyard view near playground, looking west



Backyard view near stormwater basin, looking northwest



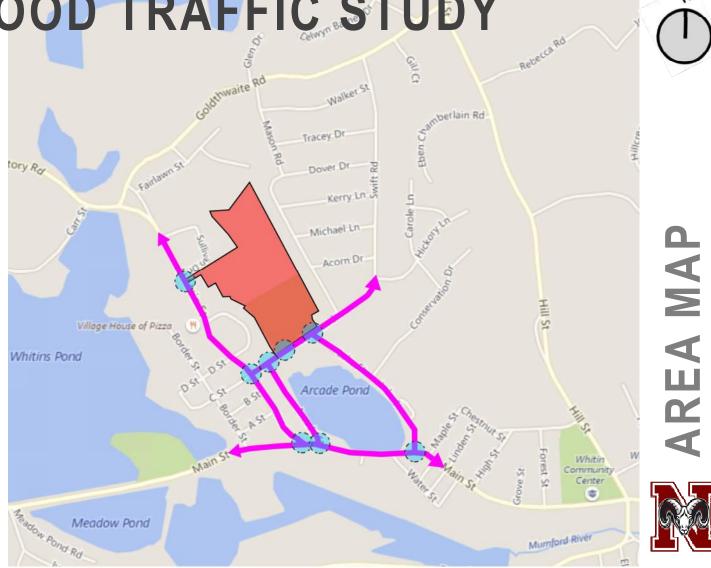
# **PLANTING MATERIALS**



## SELECTED NEW SLIDES

### NEIGHBORHOOD TRAFFIC STUDY

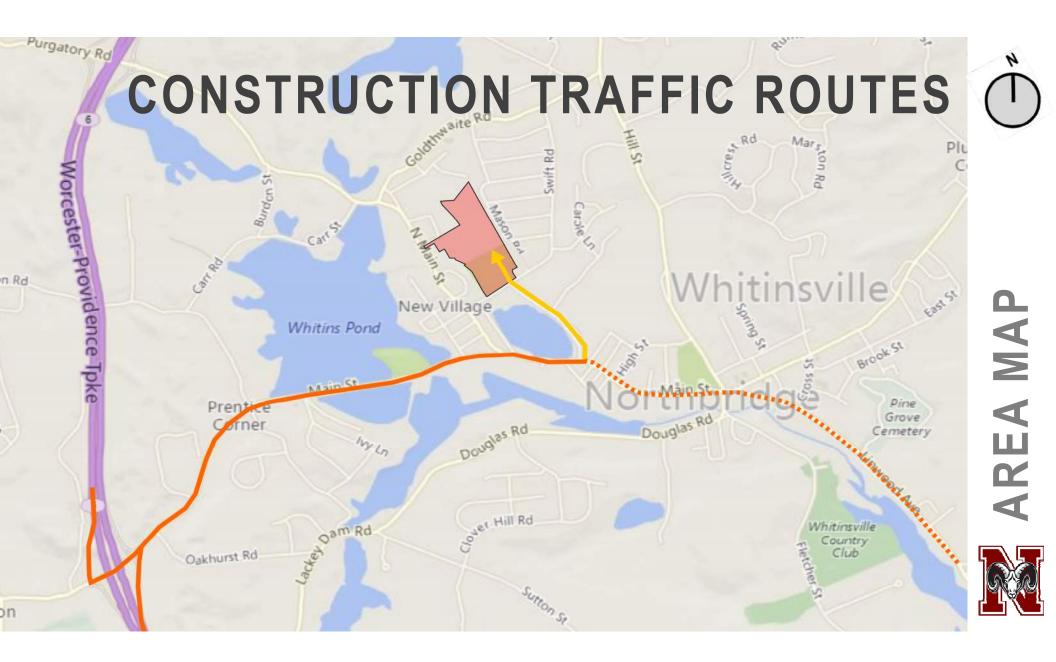
- Existing roads can handle increased traffic
- Level of Service of intersections to remain much the same
  - Most are grade A, a few B, one C, one E→D
- No added signals warranted



### NEIGHBORHOOD TRAFFIC STUDY

- 77 car queue should not interfere with traffic
- Intersection improvements (H/C ramps & crosswalks) recommended
- Acceptable sight distances at school intersections

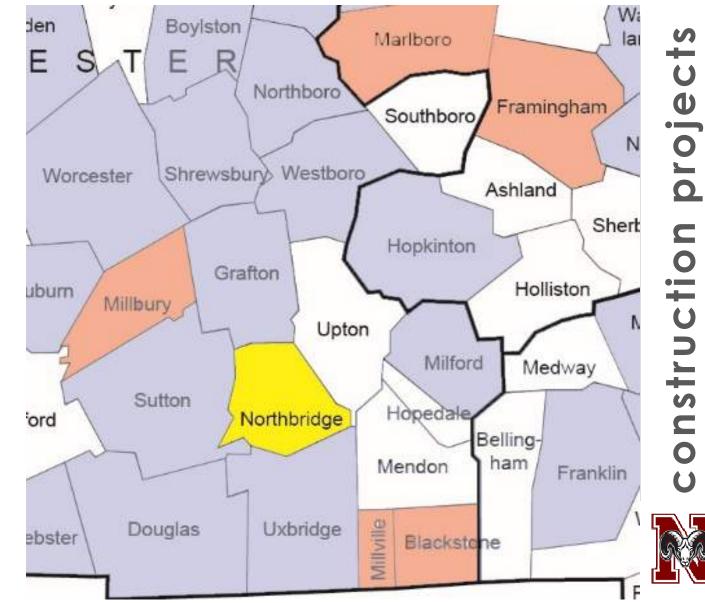




MAP SHOWING MSBA CORE PROGRAM PROJECTS IN NEIGHBORING TOWNS (within past ten years):

> Completed or Under Construction

In Feasibility to Design Development Phase



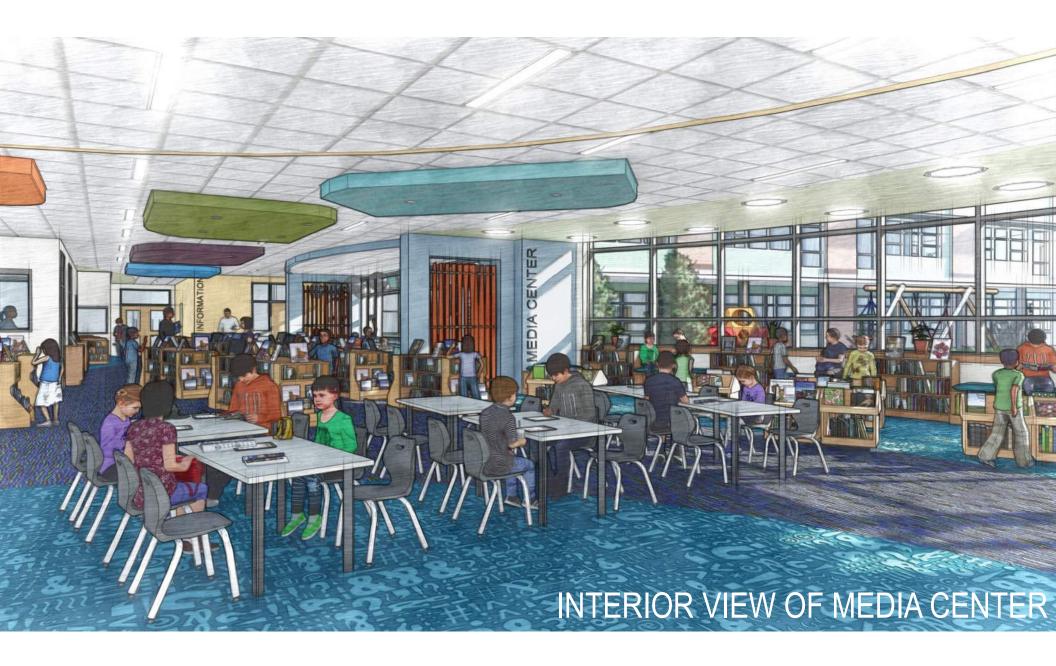




### INTERIOR VIEW OF MEDIA CENTER

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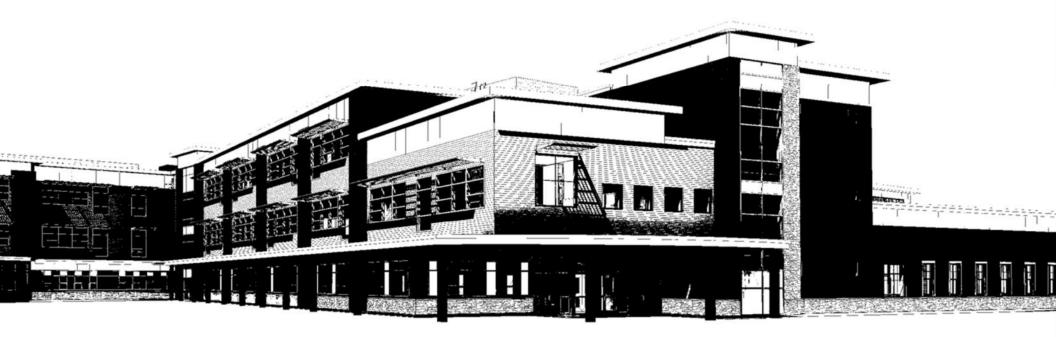
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- June 27, 2018 MSBA Board Meeting to approve project to bring to voters
- August 20, 2018 Community Forum #8
- September 19, 2018 Community Forum #9
- October 10, 2018 Community Forum #10
- October 23, 2018 Town Meeting Vote
- November 6, 2018 Anticipated Debt Exclusion Vote





### Thank you for your attention! Questions? Comments?



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