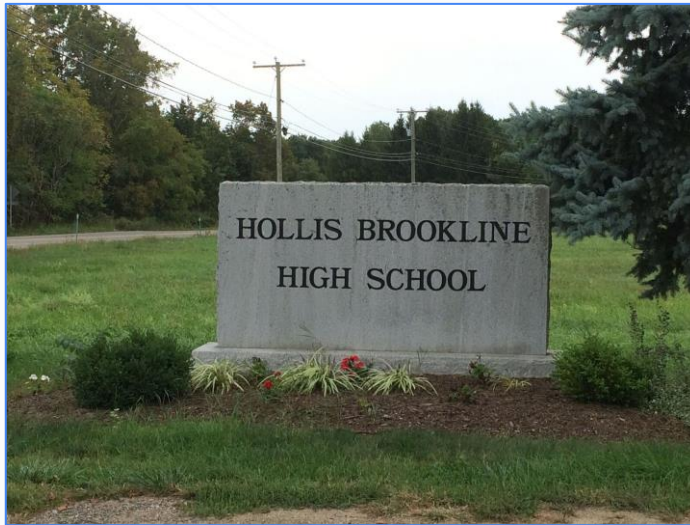


# Hollis Brookline High School Public Forum



# Goals—STEM

- Implemented a STEM focus K-12
- Investigated pathways for acceleration in STEM at HBMS
- Enhanced computer science offerings at HBHS
- Focused on returning Robotics Team back to HBHS

# Goals—Fitness Center

- Enhanced existing fields
- Desire multi-purpose turf field
- Transform weight room facility into cross training fitness center
- Create a private space for the trainer to work with student athletes

# Process

- November 2016, Facilities Study Group was formed at Board meeting
- May 2017, Board authorized expenditure of FY17 funds to hire architect firm
- June 2017 interview firms
- June 2017, Board accepts recommendation of committee
- July-September 2017, begin committee work with Banwell
- November 2017 Public Forum #1
- December 2017 Public Forum #2
- Board Approval of Warrant Article(s)
- March 2018 Annual Hollis Brookline School District meeting

# Existing Conditions

## STEM



- Existing space in middle school
- Overcrowded & cluttered

# Existing Conditions

## STEM



- Overlap of safety zones for machinery
- Lack clear sightlines for supervision

# Existing Conditions

## STEM



- Insufficient storage
- Potential safety issues
- Insufficient space

# Existing Conditions

## Fitness Center



- Large weight room
- Wasted space overhead
- No area for cross-training



# Existing Conditions

## Fitness Center



- Old, out-dated equipment
- Lack of privacy for athletic trainer to work with our athletes
- Inefficient use of space

# Existing Conditions

## Field



- Overused
- No option to rest and reseed

# Proposed STEM Renovation to Include:

→Enhanced facilities for instruction of STEM

→Curriculum to include:

- ◆ Robotics courses
- ◆ Engineering courses
- ◆ Computer science courses

→Creation of instructional space for:

- ◆ Robotics course(s) at Hollis Brookline Middle School
- ◆ HBMS to utilize existing space
- ◆ Engineering courses

# Proposed STEM Renovation to Include:

→ Leverage the HBHS facility assets better for after-hours robotics use

- ◆ Improved security
- ◆ Improved supervision
- ◆ Utilize classrooms for team meetings and small group
- ◆ Utilize Mini gym for robotic testing

→ US First Robotics Team to return to HBHS

# Proposed Renovation to Include:

- Cross-training fitness center to meet the needs of >300 student athletes in any given season
- Relocation of training room to work with our student athletes
- Relocation of Athletic Director's Office to provide supervision of gym and mini gym
- Equipment lockers in "equipment" corridor near gym

# STEM

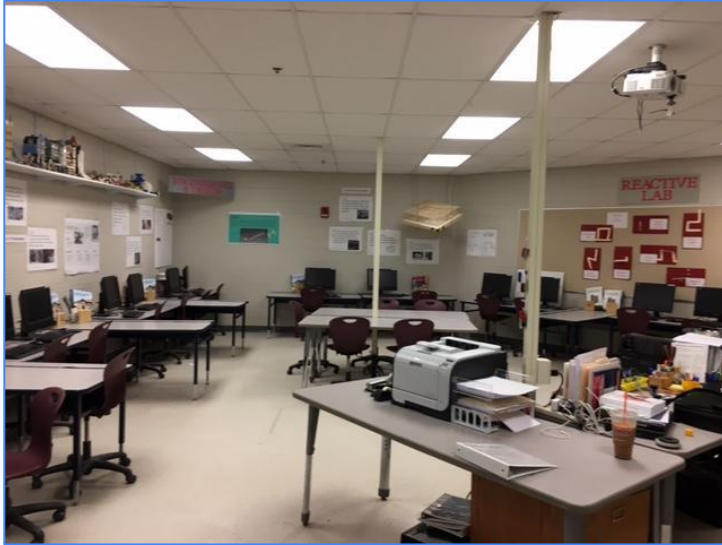
## Curricular Needs



- Articulated K-12 vertical progression of coding, computer science, and robotics
- Accelerating entry level courses from HBHS to HBMS
- Addition of higher level offerings to the HBHS department such as:
  - Biomedical Science
  - Aerospace Engineering
  - Civil Engineering and Architecture
  - Computer Integrated Manufacturing

# STEM

## Classroom Needs



- Flexible work space
- Appropriate ventilation for computers
- High end computers to handle graphics
- Wireless upgrade
- Computer space
- Table space for project work/build
- Kit storage
- Moveable
- Ceiling mounted electrical

# STEM

## Robotics Needs

- Clean Space (finer tools/computers)
- 3-D Printer
- Dirty Space (large tools)
- Wireless upgrade
- Work space
- Computer space
- Table space
- Robotics storage
- Moveable
- Ceiling mounted electrical

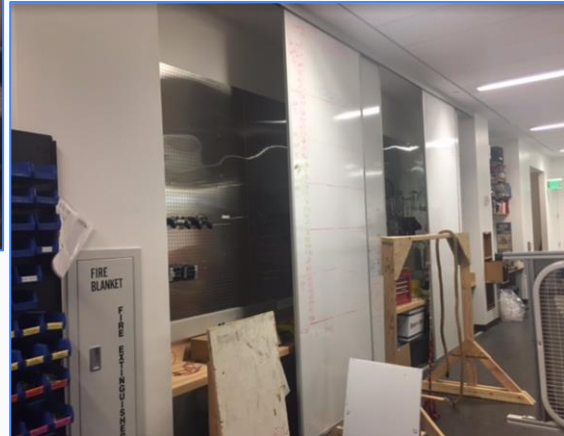


Should be mobile

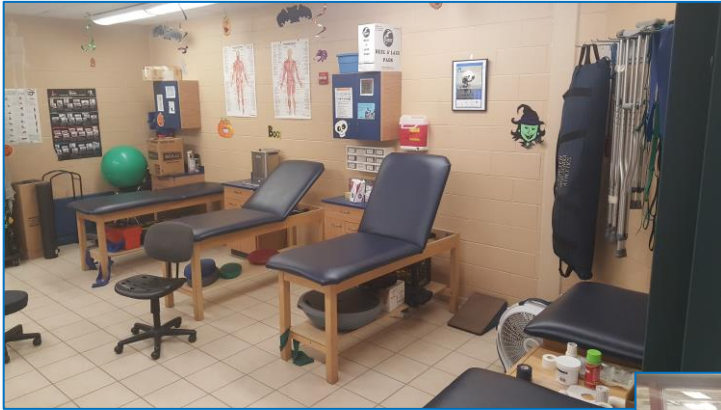




# STEM Storage



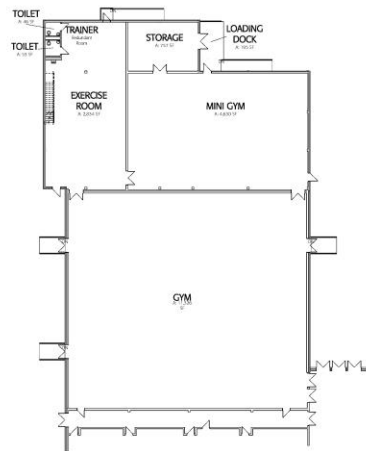
# Fitness Center



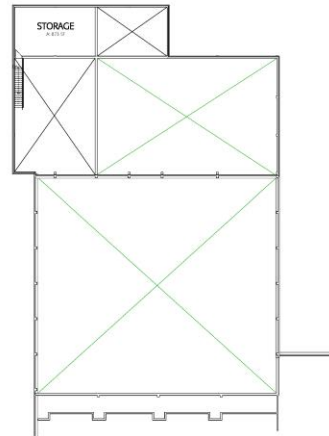
- Updated equipment
- Cross-training space
- Training room



# Existing Floor Plans



1 LEVEL 1 - EXISTING PLAN  
Scale: 1/4" = 1'-0"



2 LEVEL 2 - EXISTING PLAN  
Scale: 1/4" = 1'-0"

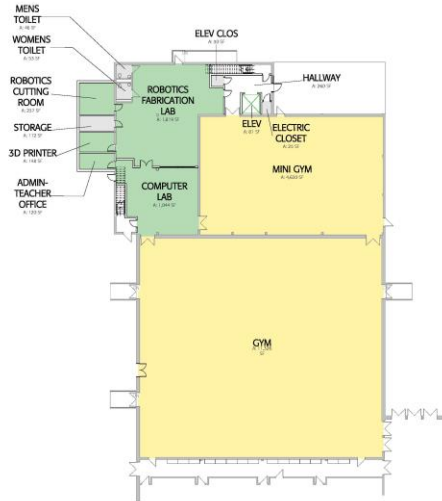
EXISTING PLANS

Hollis Brookline High School  
Hollis, New Hampshire

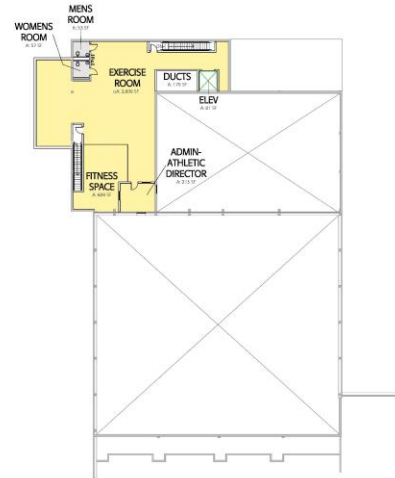
09/08/2017



# Proposed Option



1 LEVEL 1 - FLOOR PLAN PRESENTATION - OPTION 1  
Scale: 1/16" = 1'-0"



2 LEVEL 2 - FLOOR PLAN PRESENTATION - OPTION 1  
Scale: 1/16" = 1'-0"

## Department Legend



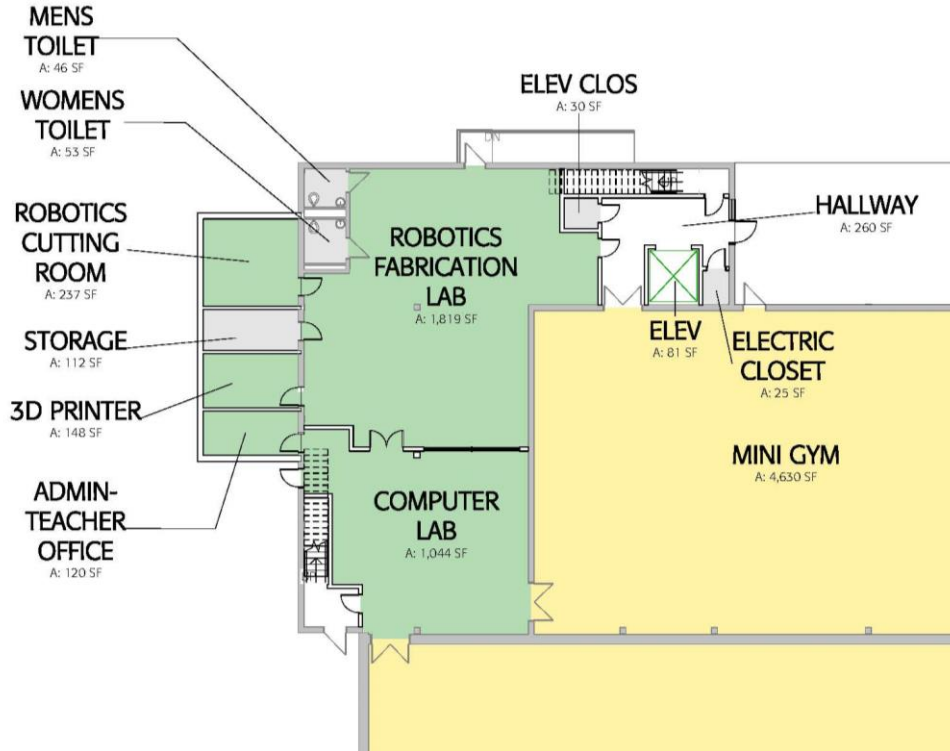
PROPOSED PLANS

Hollis Brookline High School  
Hollis, New Hampshire

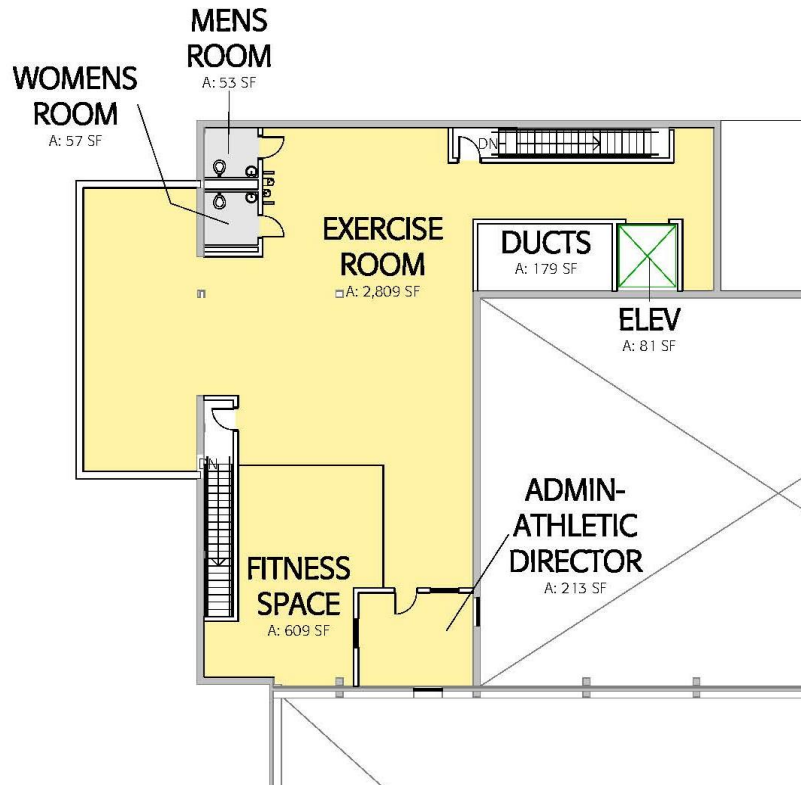
11/21/17



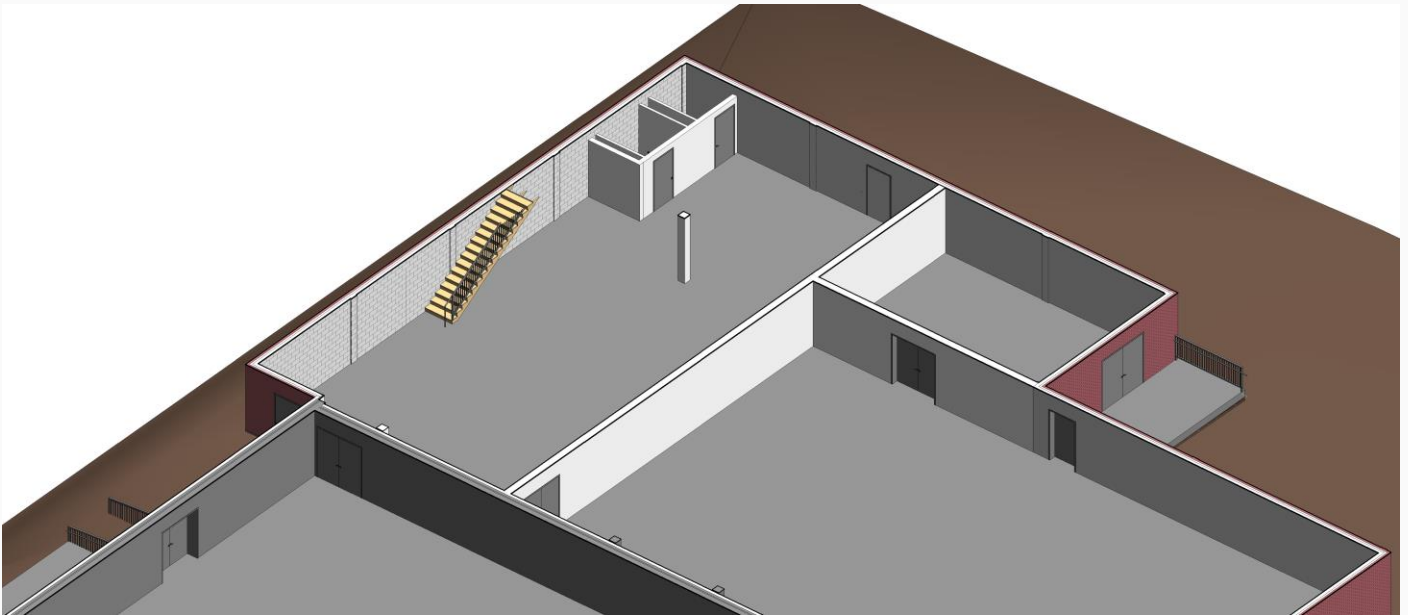
# Proposed Option—STEM



# Proposed Option—Fitness Center

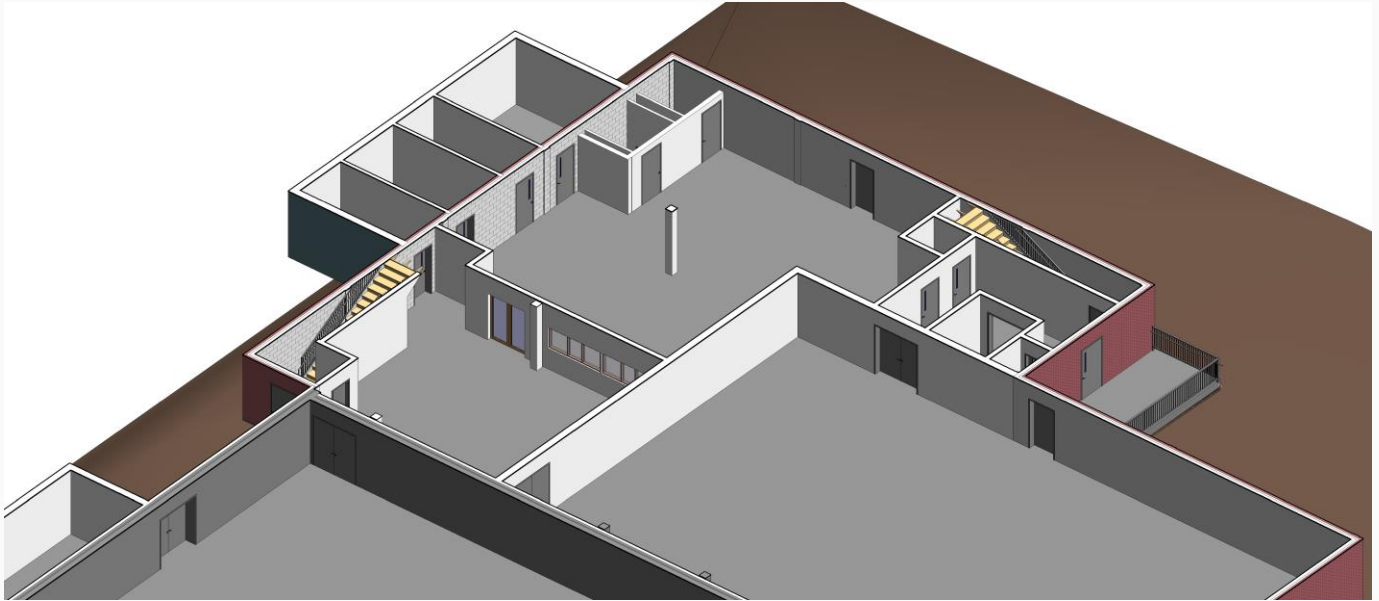


# Level 1 - Existing



Existing

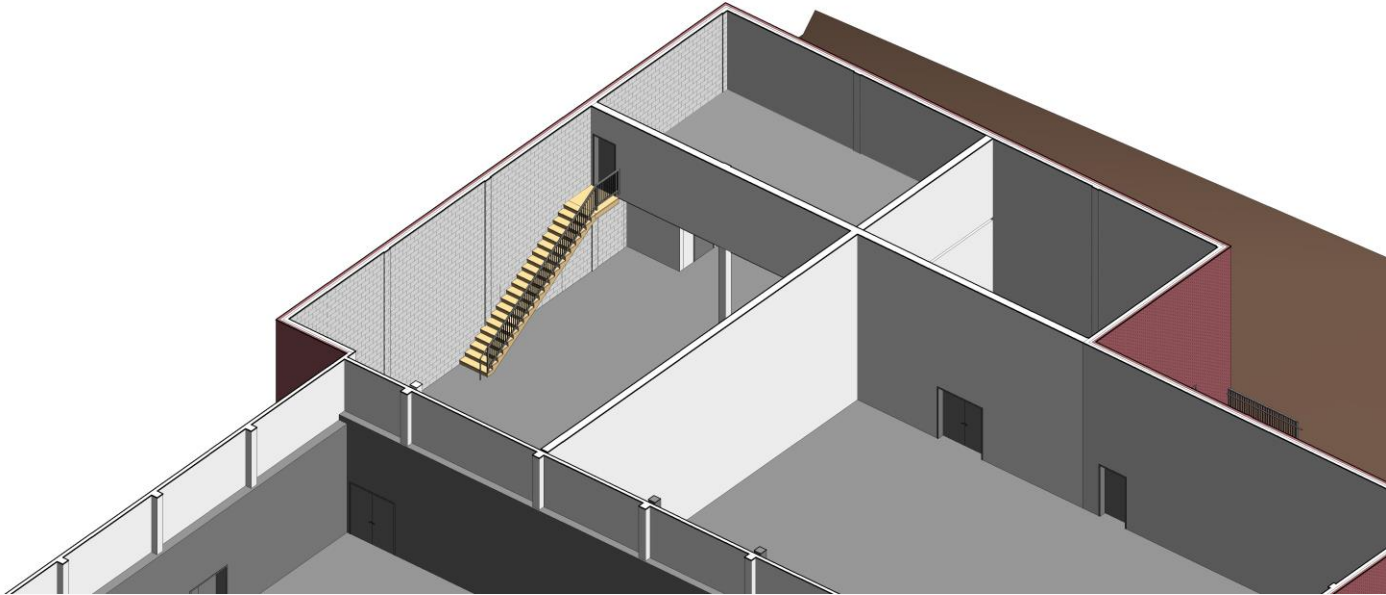
# Level 1- Proposed



Proposed

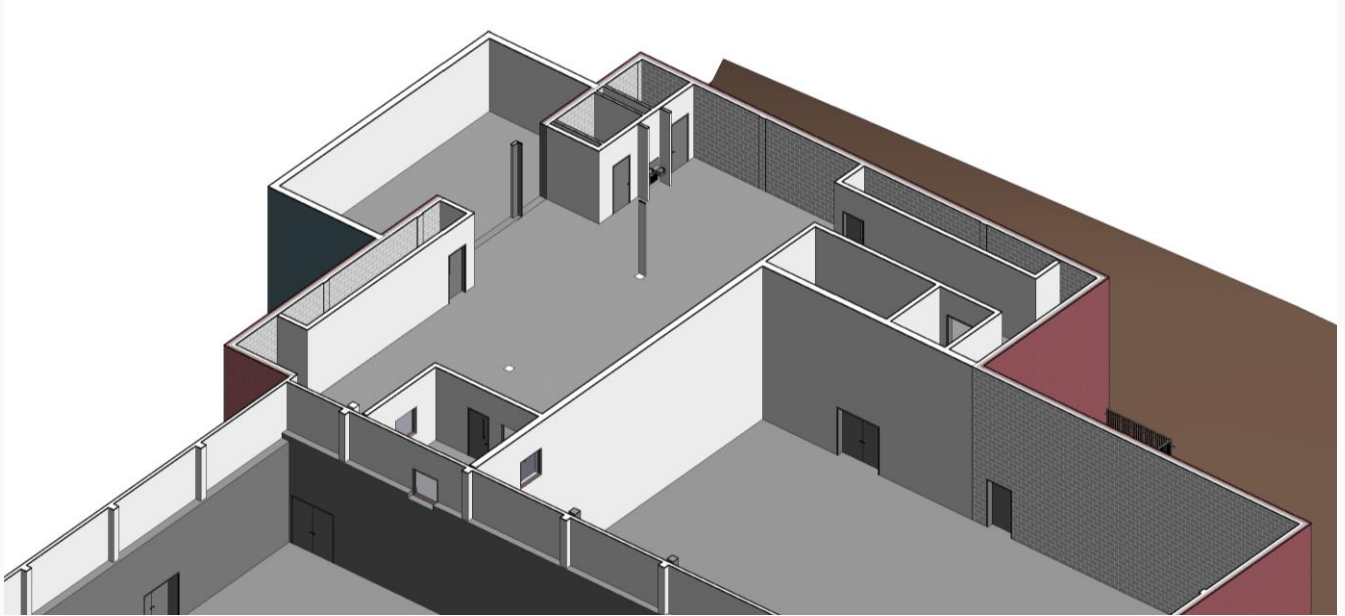


# Level 2 - Existing



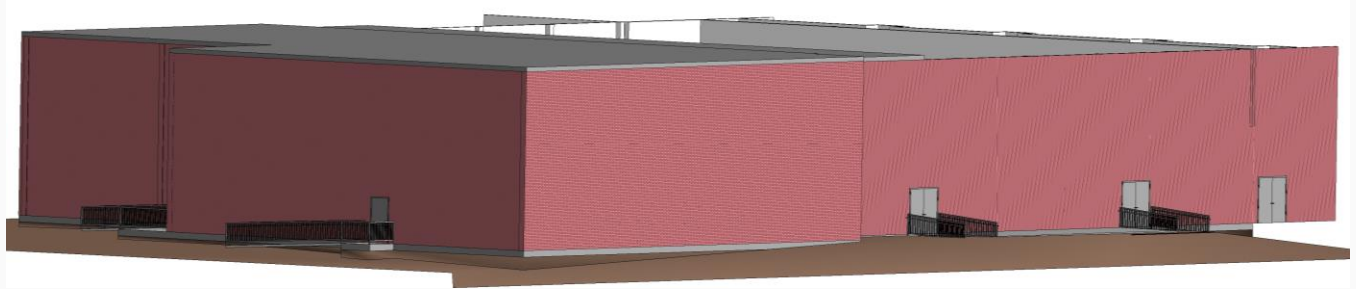
Existing

# Level 2 - Proposed

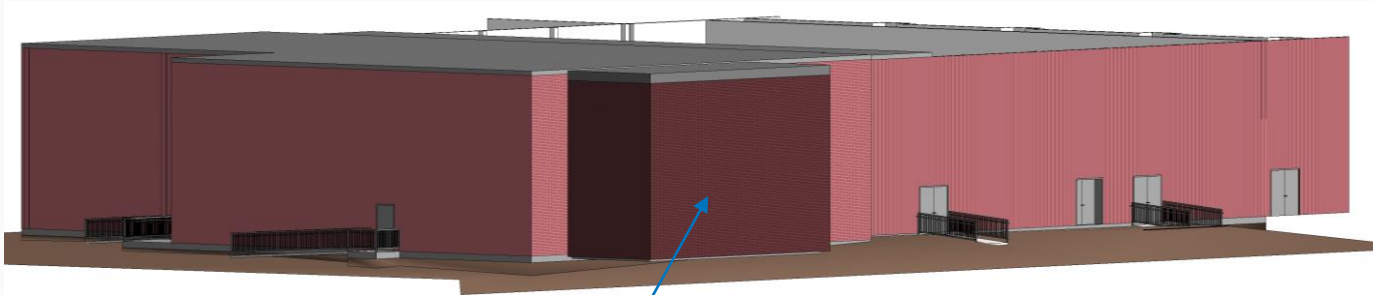


Proposed

# Southern View



Existing

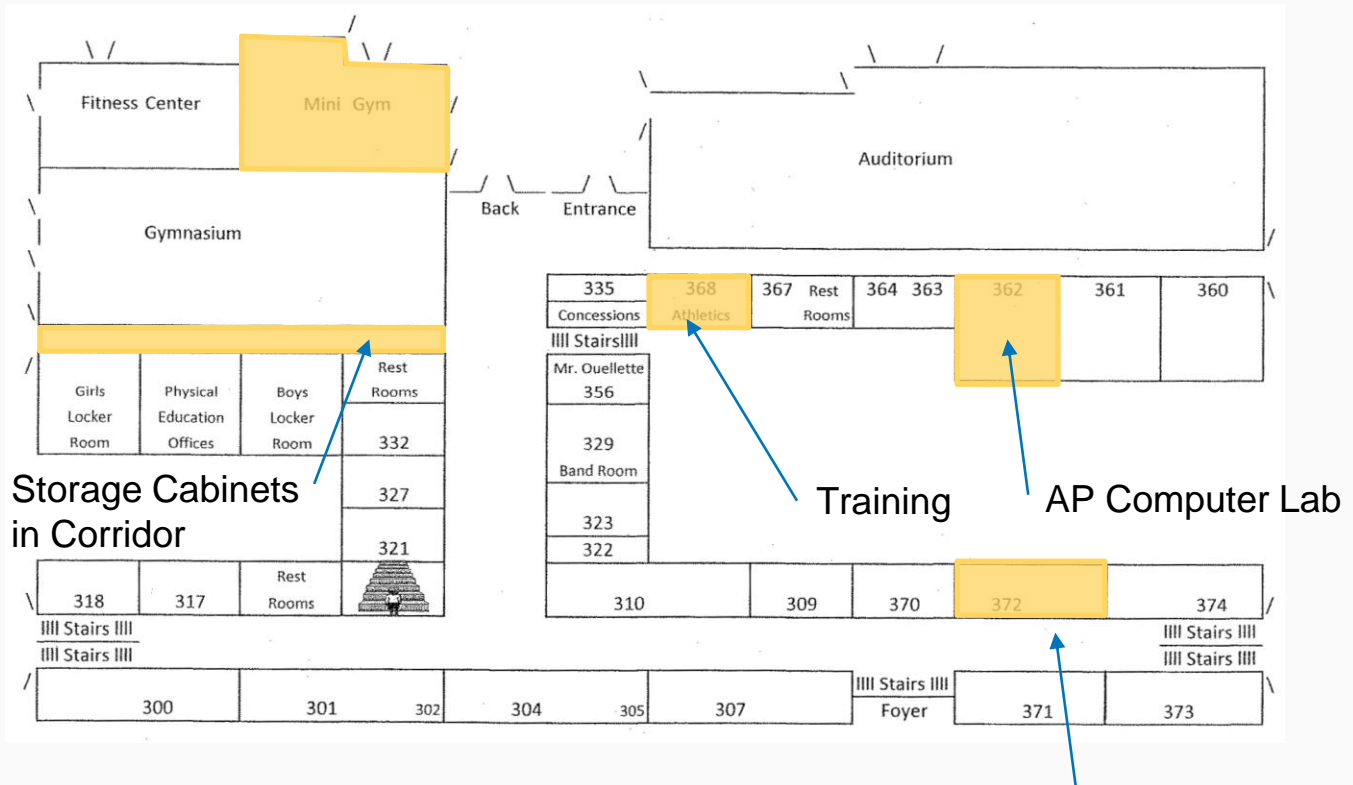


Proposed

Robotics/ Fitness  
Bump Out

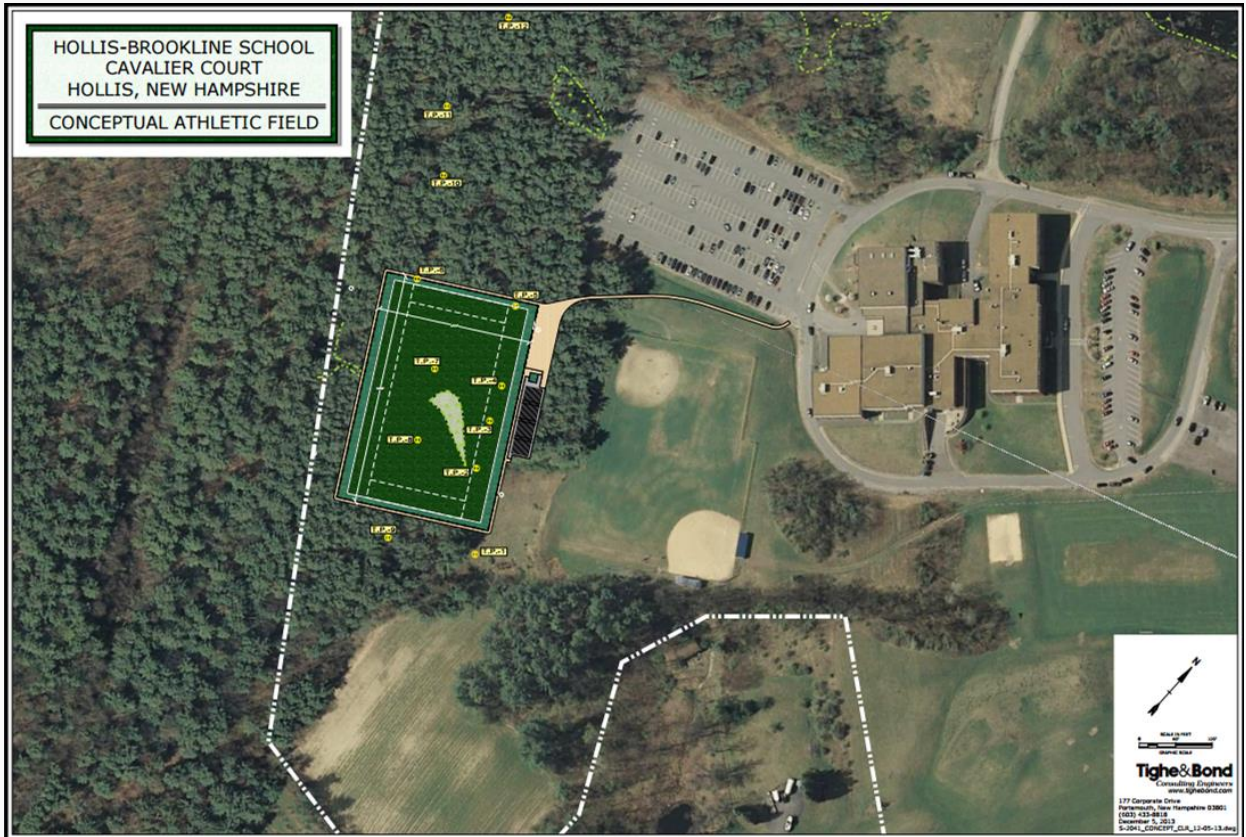


# Using Existing Spaces



Existing Lab Space becomes available

# Proposed Field Location





# Proposed Field Options

## Multi-Purpose Turf Field

- Synthetic Turf
- Fencing
- Driveway entrance/Handicap Parking
- Lighting Infrastructure



# Proposed Field Options

Synthetic Turf Breakdown of Costs	
Site Earthwork	\$300,000
Synthetic Field	\$825,000
Drainage	\$125,000
Electrical Conduit Preparation/Infrastructure	\$50,000
Fencing	\$70,000
Miscellaneous Paving	\$75,000
Soft Cost Multiplier ~15%	\$225,000
Total	\$1,660,000



# Potential Field Revenue

Turf Field Hourly Rental Rates	March 1 - April 10		April 10 - October 15		October 16 – November 30	
	Without Lights	With Lights	Without Lights	With Lights	Without Lights	With Lights
Community Youth Group	\$75	\$125	\$50	\$100	\$75	\$125
Community Non-Profit	\$100	\$150	\$100	\$150	\$100	\$150
Community for Profit & Outside Community Non-Profit	\$125	\$175	\$125	\$175	\$125	\$175
All Other Organizations	\$150	\$200	\$150	\$200	\$150	\$200
Town	\$0	\$0	\$0	\$0	\$0	\$0

\*Rates obtained from Souhegan High School Model



## **STEM & Fitness Renovation**

- \$1,980,000

## **Multi-Purpose Turf Field**

- \$1,660,000

\*STEM Equipment, Athletics Equipment, & Lights  
through Private Donations

# Schedule

## **Next Steps:**

- Send plan to NH Department of Education
- Review construction delivery methods
- Refine total building project estimate
- Continued Community Outreach
- Board Approval of Warrant Articles
- Annual March School District Meeting

# Estimated Tax Impacts of COOP Facilities Expansion

12/6/2017

# Estimated Tax Impacts

- Impacts based on total amount financed of \$3.5M
- Terms are 10 years for bond, combination of 7 & 10 years for lease
- Estimated tax rate impacts assume the current apportionment formula remains in place
- Same tax base as FY19 budget planning
- Tax rates stabilize in Year 2 for a bond and Year 1 for a lease

	Bond	Lease
TOTAL P + I	\$3.94M	\$4.14M
Interest rate	1.5%	3.6%
Hollis Total P + I	\$2.74M	\$2.87M
Brookline Total P+I	\$1.21M	\$1.26M
FY19 Tax Rate/K	\$.04	\$.28
FY19 Tax \$/\$100K	\$4	\$28
FY20+ Tax Rate/K	\$.22	
FY20+ Tax \$/\$100K	\$22	
Cum Tax \$/\$100K	\$226	\$238

# Impact per Average Home

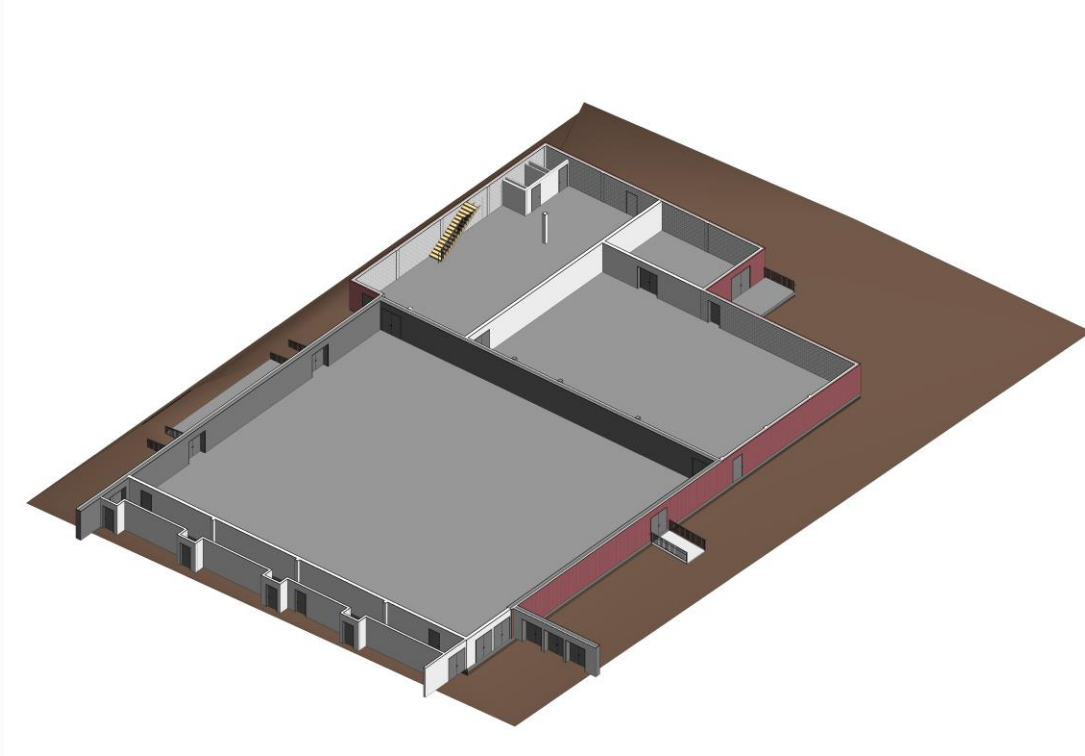
	Bond	Lease
Hollis FY19 \$/Avg Home	\$15	\$113
Brookline FY19 \$/Avg Home	\$10	\$78
Hollis FY20 \$/Avg Home	\$89	\$113
Brookline FY20 \$/Avg Home	\$61	\$78
Total Cost Over Ten Years Hollis \$/Avg Home	\$905	\$950
Total Cost Over Ten Years Brookline \$/Avg Home	\$622	\$653

Avg home value in Hollis ~\$400K, Avg home value in Brookline ~\$275K

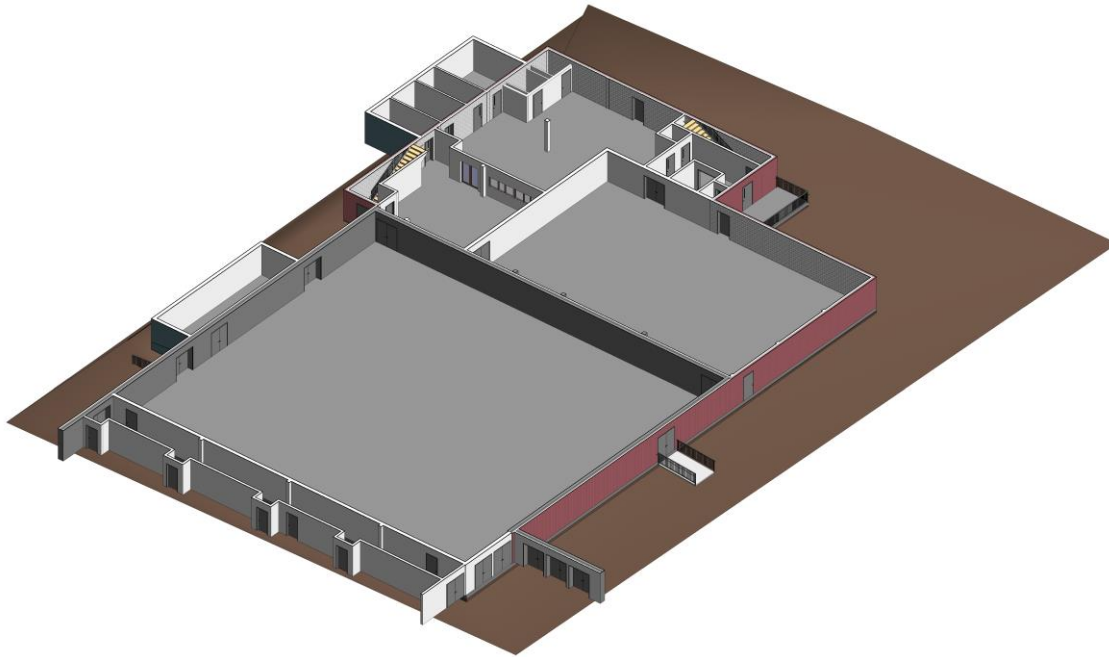
# Hollis Brookline High School Public Forum...Questions?



# Level 1- Existing

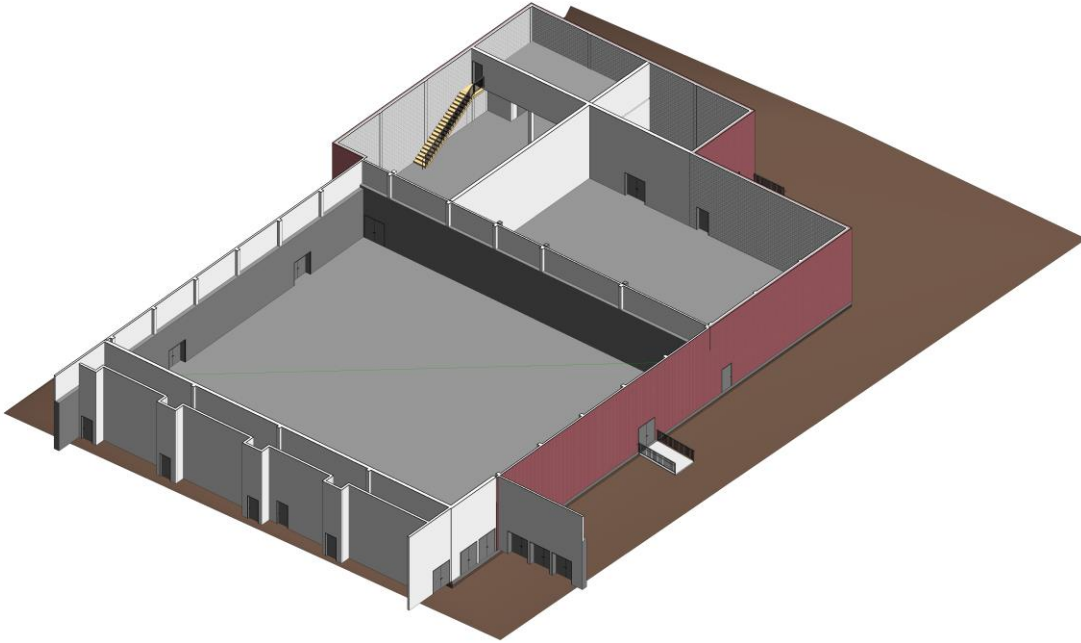


# Proposed Level 1



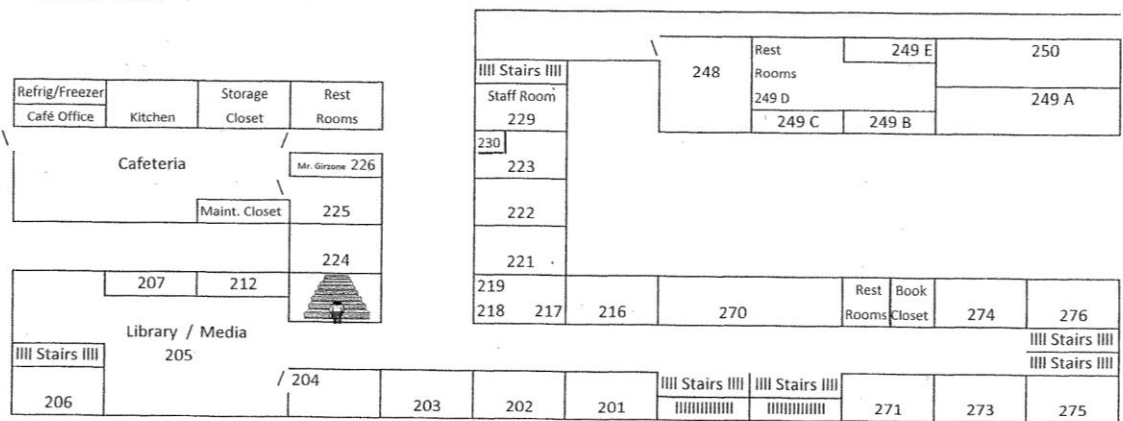


# Existing Level 2



# HOLLIS BROOKLINE HIGH SCHOOL

## SECOND FLOOR



## FIRST FLOOR

