

An aerial photograph of Springfield High School and its surrounding area. The school building is a large, multi-winged structure with a central courtyard. To the right of the main building is a large, open field, likely a sports field. The school is surrounded by a dense residential area with many houses and trees. The overall scene is captured from a high angle, showing the layout of the school and its integration with the neighborhood.

Springfield High School

Springfield School District
Delaware County - Pennsylvania

Master Plan Presentation Town Hall Meeting 4

Community/ Academic / Athletics and Recreation / Sustainability

January 14th, 2015

Town Hall Meetings

- **Town Hall Meeting 1** (October 16th, 2014)
Repeat Presentation of May 22, 2014 Board Meeting
- **Town Hall Meeting 2** (November 13th, 2014)
Existing Building / Right-Sizing / Education Model
- **Town Hall Meeting 3** (December 11th, 2014)
Phasing / Traffic and Parking
- **Town Hall Meeting 4** (January 14th, 2015)
Community/ Academic / Athletics and Recreation / Sustainability
- **Town Hall Meeting 5** (February 4th, 2015)
Financial Options / Cost Options / Tax Impact
- **Town Hall Meeting 6** (March 19th, 2015)
Recap / Summary / Options for Moving Forward



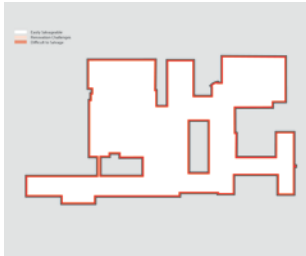
Code



Roofing



Windows



Envelope



Electric



Asbestos Roof Deck



HVAC



Plumbing



Town Hall Meeting 4

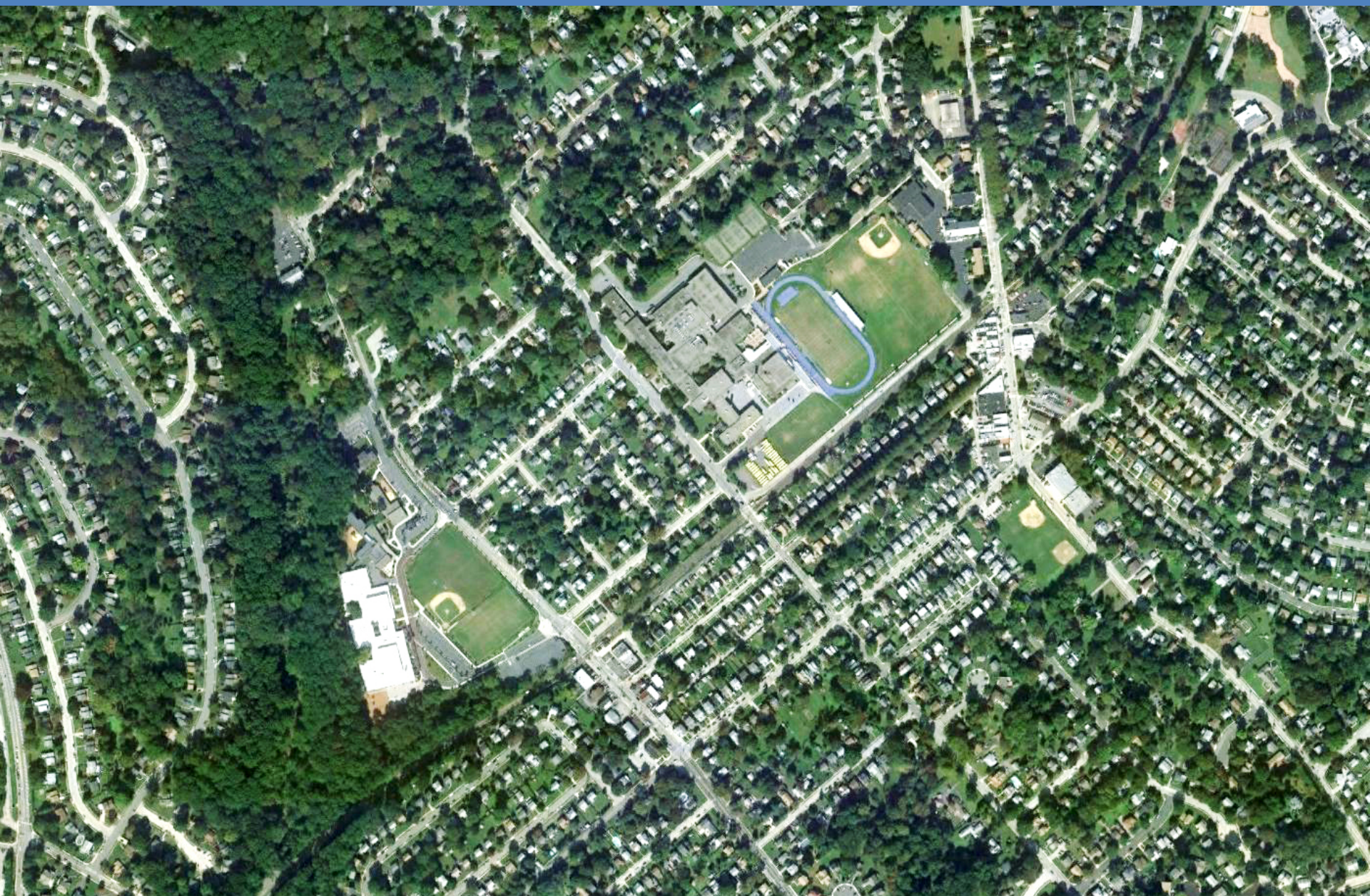
Community/ Academic / Athletics and Recreation / Sustainability

Presentation Outline

- Community Benefits
 - Access to Shared Spaces as Community Resource
 - Town Green / Athletics and Recreation
- Academic Impacts
- Athletic Impacts
- Regulatory / Sustainability
 - Zoning
 - Sustainability / Storm water Management
- Discussion

An aerial photograph showing a school facility with a large central building, a baseball field, and a tennis court. The facility is surrounded by a residential neighborhood with many houses and trees. The text "Existing Facility / Community" is overlaid in the center.

Existing Facility / Community





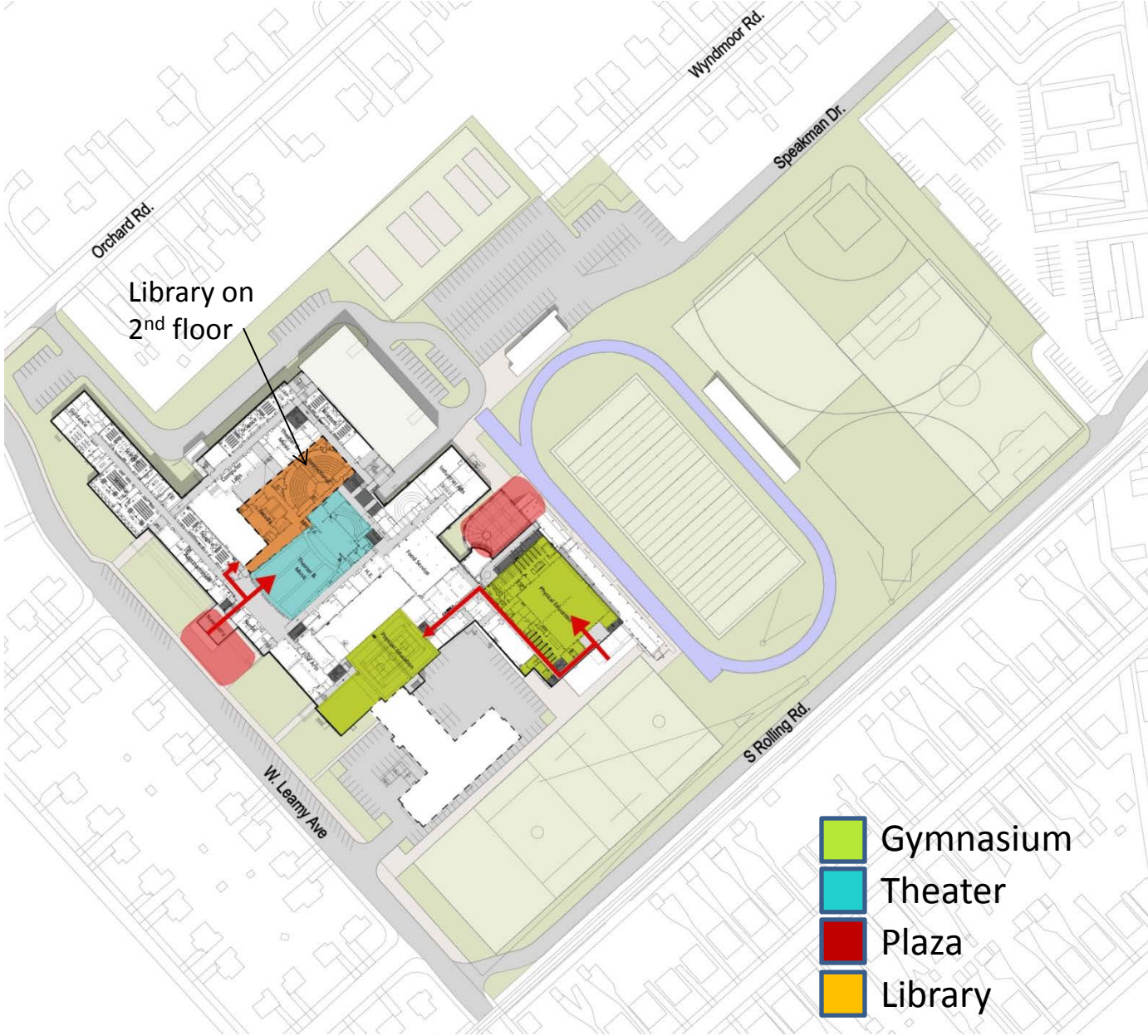


Four Options Compared

- Maintain Existing Building – (Service Life Extension)
- Renovate Existing Building
- Leamy Ave. New Building
- Saxer Ave. New Building

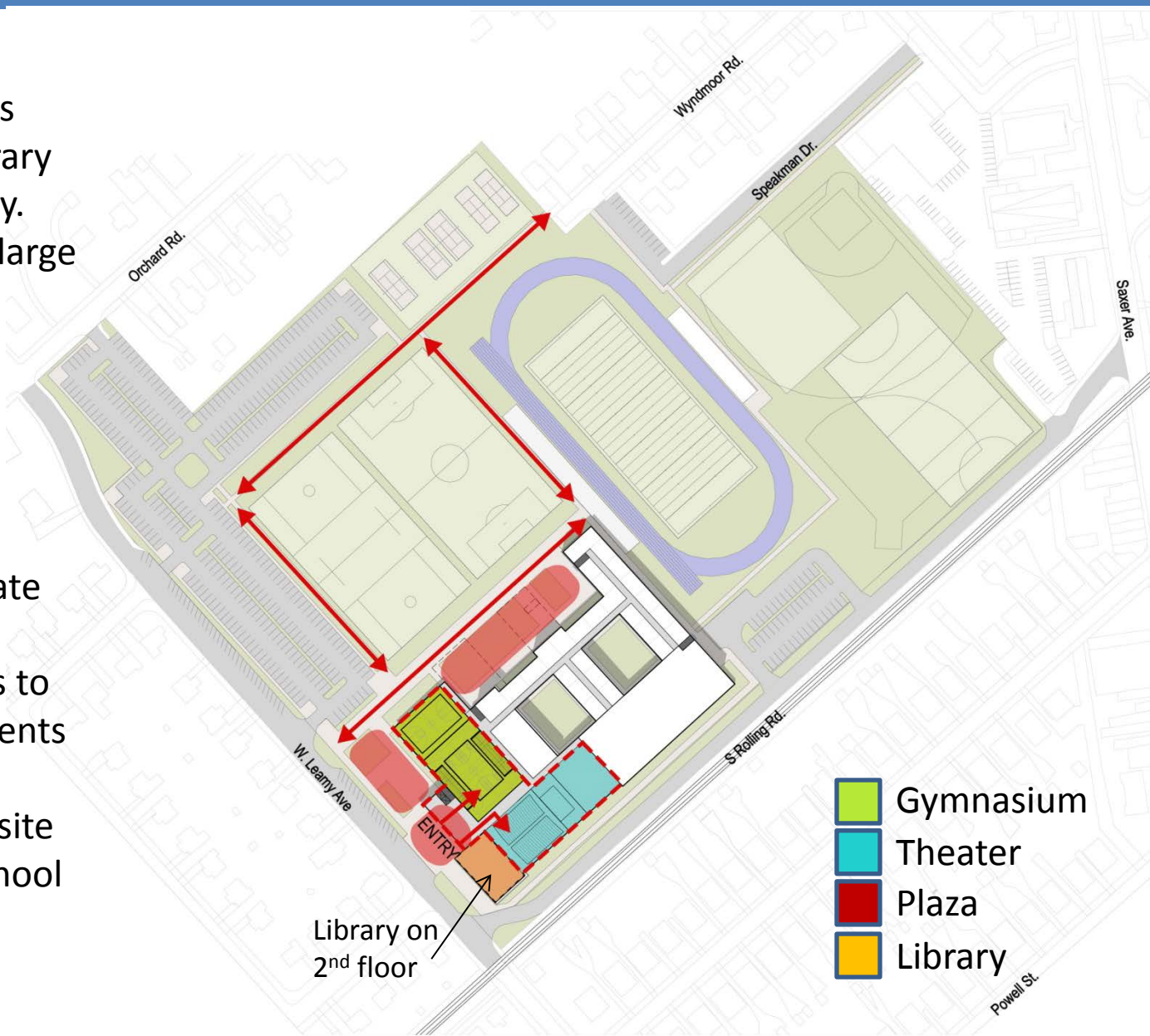
An aerial photograph of a school campus. The central feature is a large, multi-story school building with a complex roofline. To the right of the main building is a large, oval-shaped sports field, likely a football or soccer field. To the left of the main building is another sports field, possibly a baseball or softball field. The campus is surrounded by a dense residential neighborhood with many houses and trees. The text "Community Benefits" is overlaid in the center of the image.

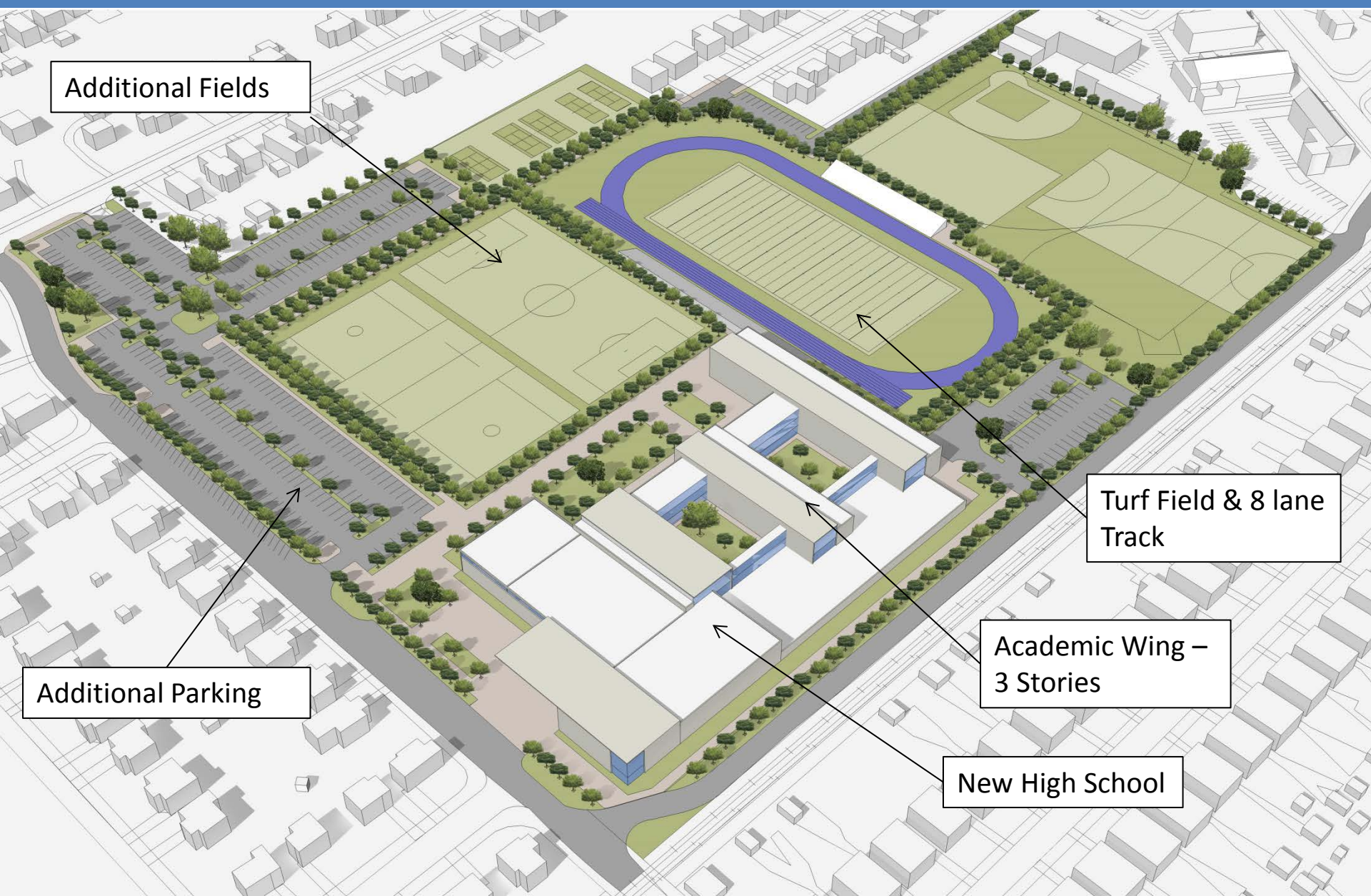
Community Benefits



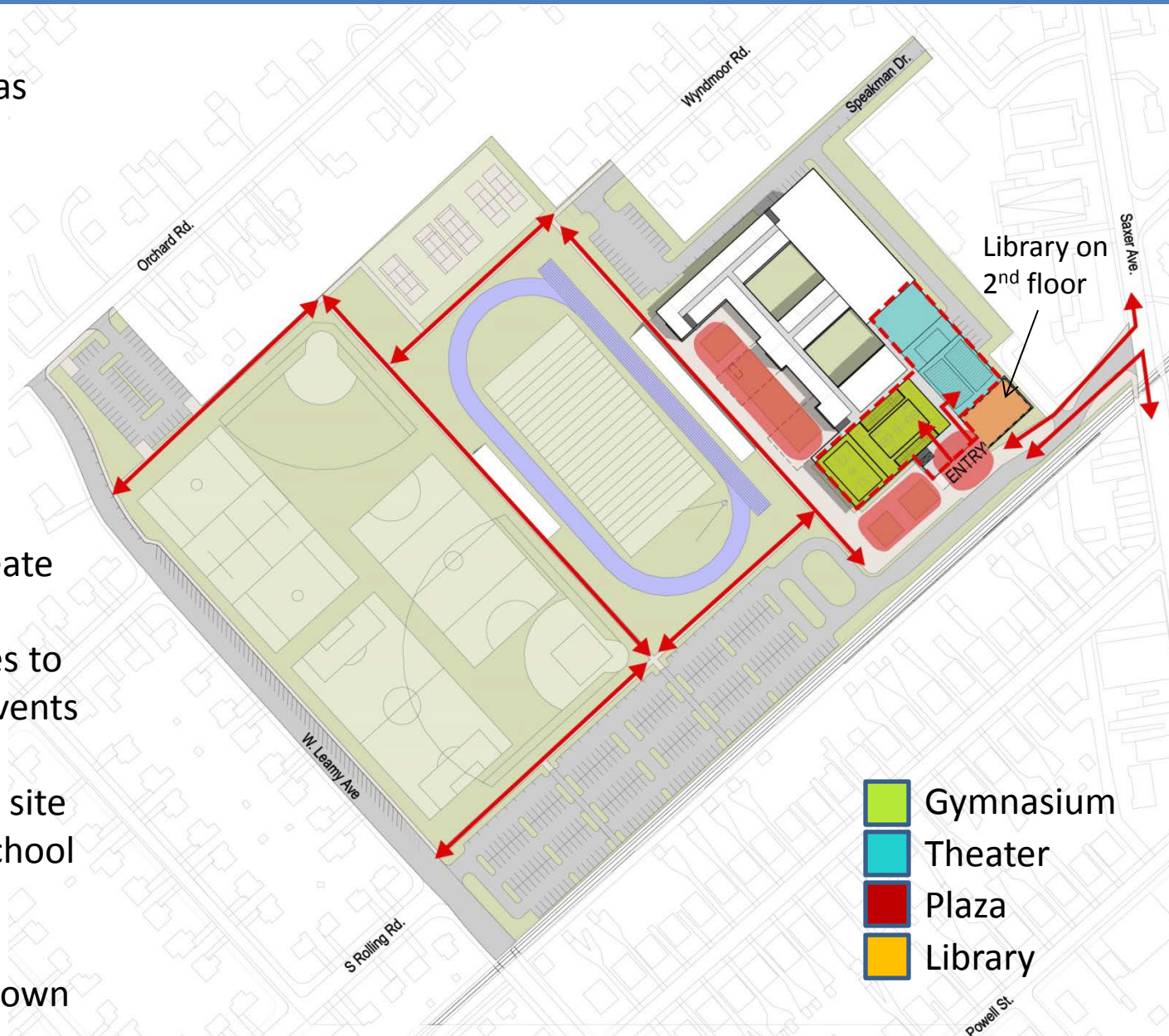


- Public Facilities such as Gym, Theatre and Library are grouped near entry.
 - Ease of entry for large events
 - Allows public functions to be secured from classrooms
- New Public Plazas create social spaces for community and places to gather during large events
- Paths throughout the site connect fields with school and neighborhood.





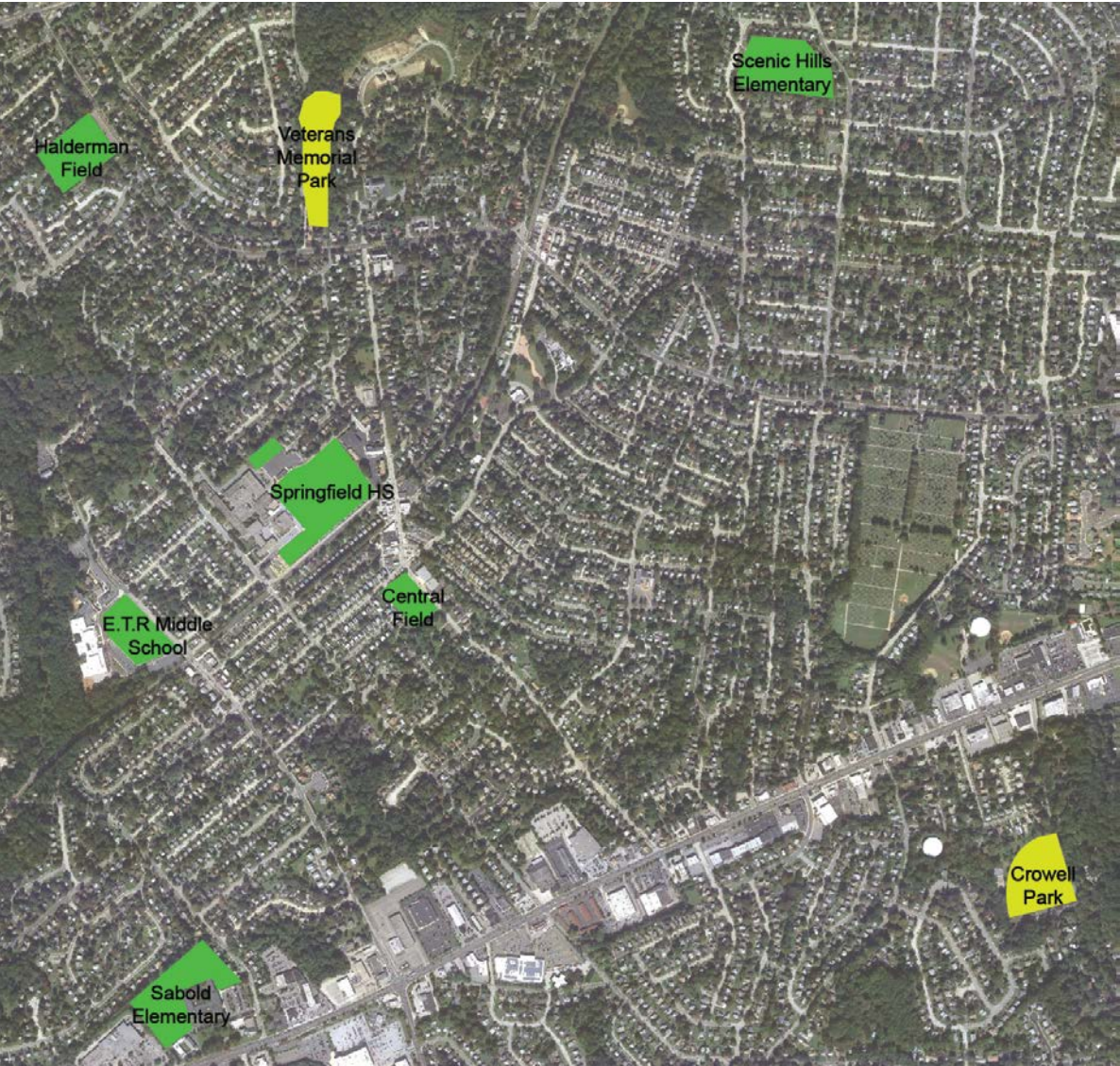
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 - Ease of entry for large events
 - Allows public functions to be secured from classrooms
- New Public Plazas create social spaces for community and places to gather during large events
- Paths throughout the site connect fields with school and neighborhood.
- Connection to Downtown





An aerial photograph of a school campus. The central part of the image shows a large school building with a curved roofline. To the right of the building is a large oval athletic field, likely a football or soccer field. To the left of the building is another athletic field, possibly a baseball or softball field. The campus is surrounded by a dense residential neighborhood with many houses and trees. The text "Athletic Impact / Disruption" is overlaid in the center of the image.

Athletic Impact / Disruption



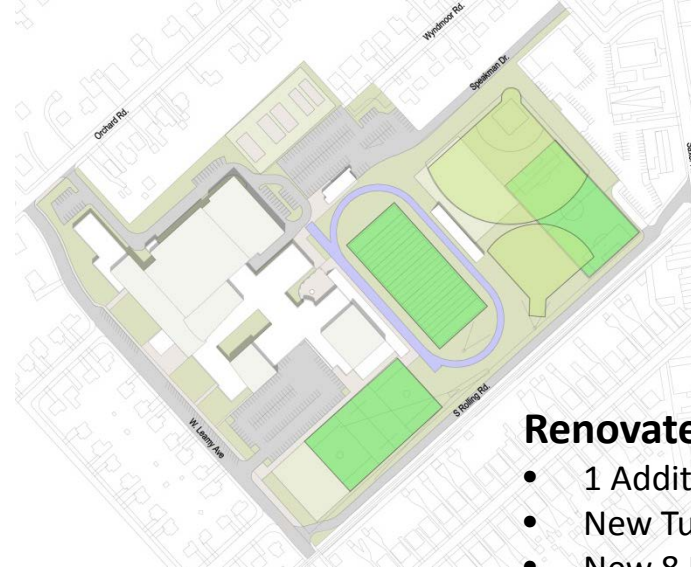
District / Community Field	# of Teams	# of Participants
High School Stadium Field	13	500
High School Baseball Field	4	68
High School Field Hockey Field	4	116
High School Bus Lot Field	2	167
ETR - Baseball Field	3	113
ETR - Lower Soccer/Lacrosse Field	5	138
ETR - Upper Soccer Field	2	33
Sabold - Back Field Multi Use	20	325
Scenic - Softball / Soccer Field	9	115
Halderman Front Field	13	193
Halderman Back Field	8	182
Central	10	160
Veterans Memorial Park*	1	18
Crowell Park*	1	16
Totals	95	2,144

- Public Park
- District Owned Field

*District teams only

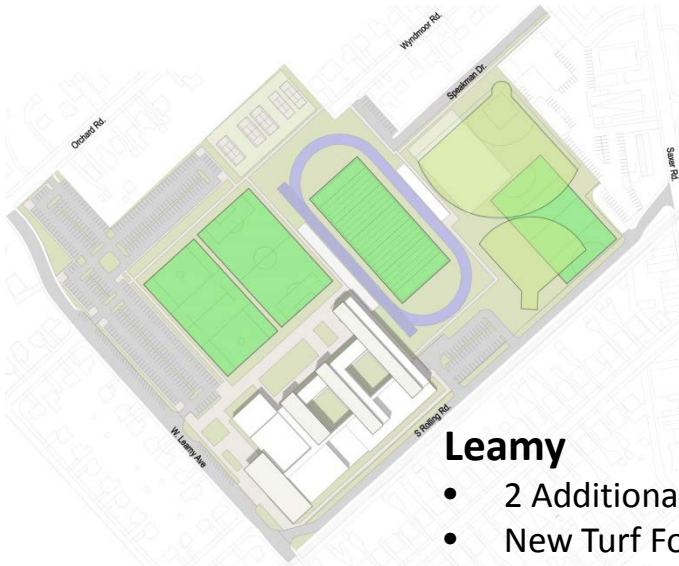


Maintain



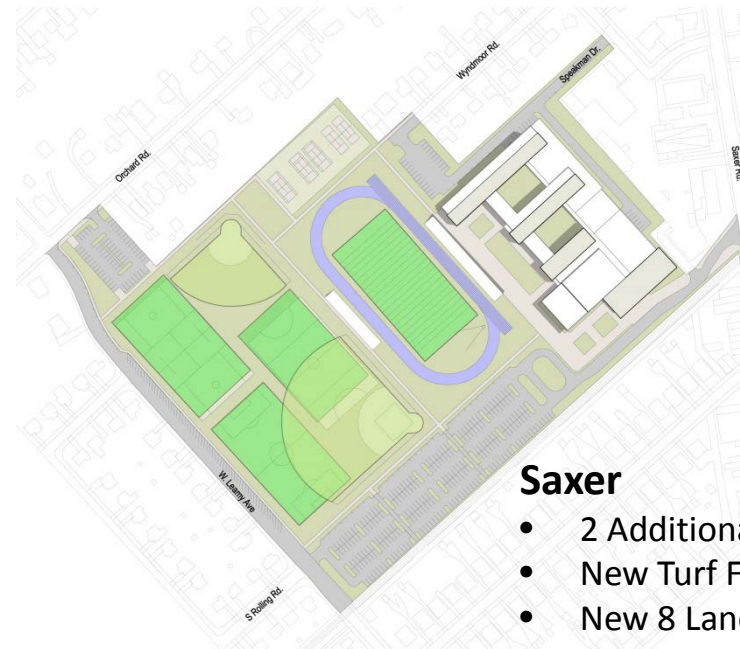
Renovate

- 1 Additional field
- New Turf Football field
- New 8 Lane Track



Leamy

- 2 Additional fields
- New Turf Football field
- New 8 Lane Track



Saxer

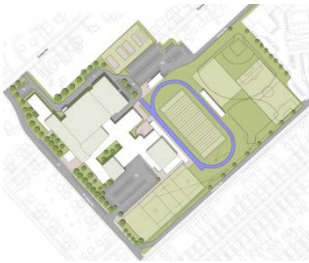
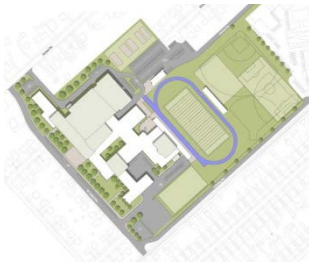
- 2 Additional fields
- New Turf Football field
- New 8 Lane Track



	Maintain Exstg	Renovate Exstg	New Leamy Ave.	New Saxer Ave.
	Maintain Current Facility	Maintain Existing + New Gym	All New	All New
Increase On-site Fields	No	+1	+2	+2
Existing Fields Impacted	Low	Medium	Medium	High
Turf field – Increased Scheduling	No	Yes	Yes	Yes
Community Use of Fields	No change	Increased	Increased	Increased
Gym and Track Expansion	No	Yes	Yes	Yes
Safety – Use of Remote Fields	No Change	No Change	Reduced	Reduced
Access to Athletic Trainer	No Change	No Change	Increased	Increased

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Academic Impact / Disruption



	Maintain Exstg	Renovate Exstg	New Leamy Ave.	New Saxer Ave.
	Maintain Current Facility	Maintain Existing + New Gym Relocate Admin	All New	All New

PHASING/SCHEDULE

Estimated Base Construction Duration	3.2 yrs. (38 months)	3.25 yrs. (39 months)	3.25 yrs. (39 months)	1.75 yrs. (21 months)
Estimated Overall Project Duration (incl. phasing)	3.7 yrs. (44 months)	4.7 yrs. (56 months)	5 yrs. (60 months)	3 yrs. (36 months)
Senior Classes Effectd	4	5	5	3
Circulation/Campus Disruption	High	High	Medium	Low
Potential for Schedule Creep	High	High	Medium	Low

TEMPORARY SPACE

Temporary Classrooms, Space required	Yes 25-30 -Potential	Yes 25-30-Potential	No	No
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	Maintain Existing	Renovate Existing	New Leamy Avenue	New Saxer Avenue
Impact on Educational Environment	High	High	Medium	Low
Impact on Student Achievement	High	High	Medium	Low
Impact on Student/Staff Morale	High	High	Medium	Low
Relocation of Program Spaces During Construction	Yes	Yes	Yes	No
Interior Circulation Disruption Around Construction Areas	Yes	Yes	Yes	No
Exterior Circulation Disruption Around Construction Areas	Medium	Medium	Medium	Medium
Construction Areas Next to Program Areas	Yes	Yes	Yes	No
High Noise Levels	High	High	High	Medium
Outside Travel Between Buildings	Yes	Yes	Yes	No

KEY:

LOW IMPACT

MEDIUM IMPACT

HIGH IMPACT

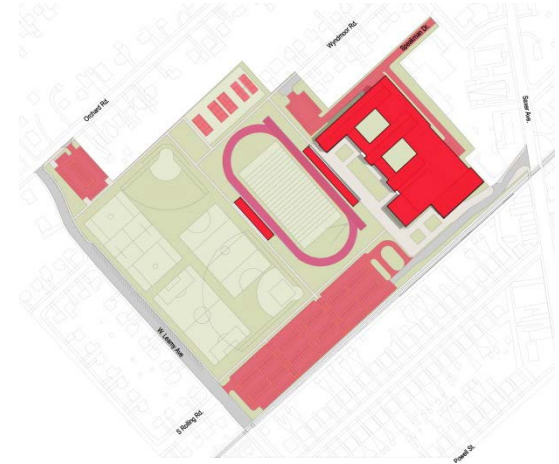
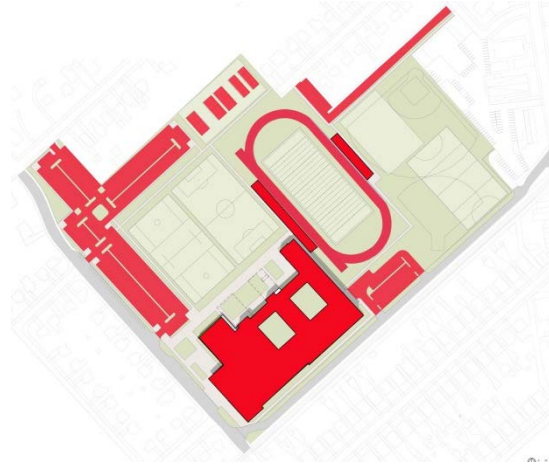
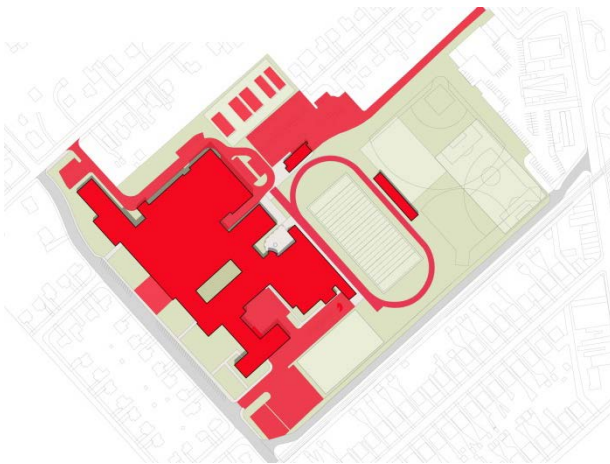


Regulatory / Sustainability

Regulations

Max Building Coverage Permitted = 30%

Max Impervious Coverage Permitted = 40%



Maintain & Renovate Schemes

Building Coverage = 20% +/-

Total Impervious = 43% +/-

Leamy Scheme

Building Coverage = 11% +/-

Total Impervious = 40% +/-

Saxer Scheme

Building Coverage = 11% +/-

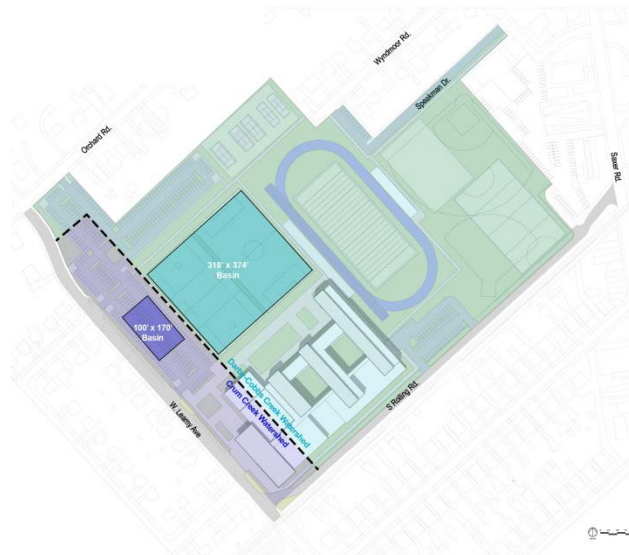
Total Impervious = 40% +/-

- Site Drains to two watersheds – **Crum Creek** and **Darby-Cobbs Creek**
- Crum Creek stormwater requirements for rate control are more restrictive than Darby-Cobbs Creek.
- Protect both watersheds with any development
- Existing condition has no runoff controls for rate, volume, water quality
- Opportunity to provide state of the art stormwater BMPs to control rate, volume, water quality



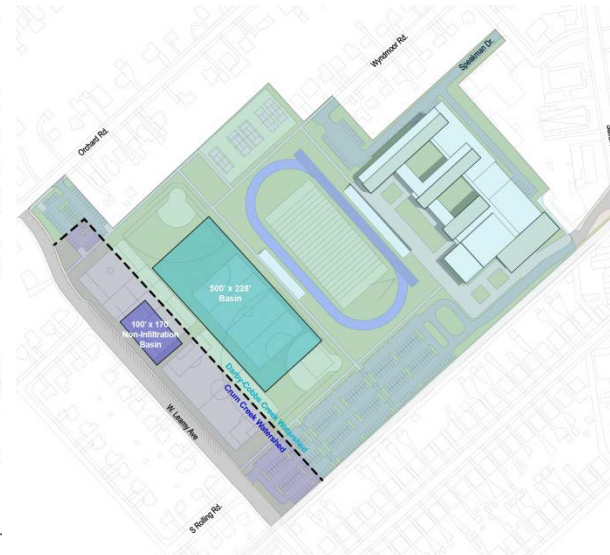
Renovate

- Infiltration basins required in both watersheds



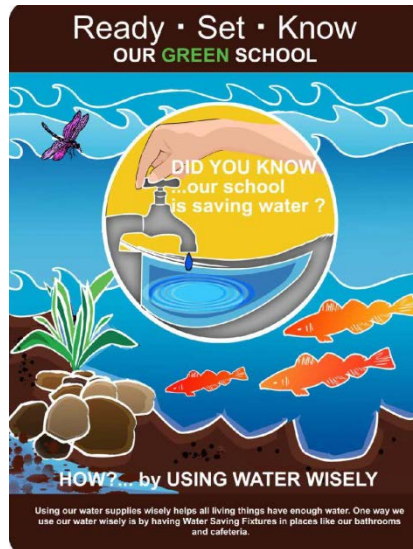
Leamy

- Infiltration basins required in both watersheds



Saxer

- Infiltration basins required in Darby-Cobbs.
- Rate control basin required in Crum Creek



Common sense approach to sustainable design will provide return on investment through:

- Reduced operational cost
- Increased educational opportunities
- Improved educational and working environment.







EXISTING HALLWAY



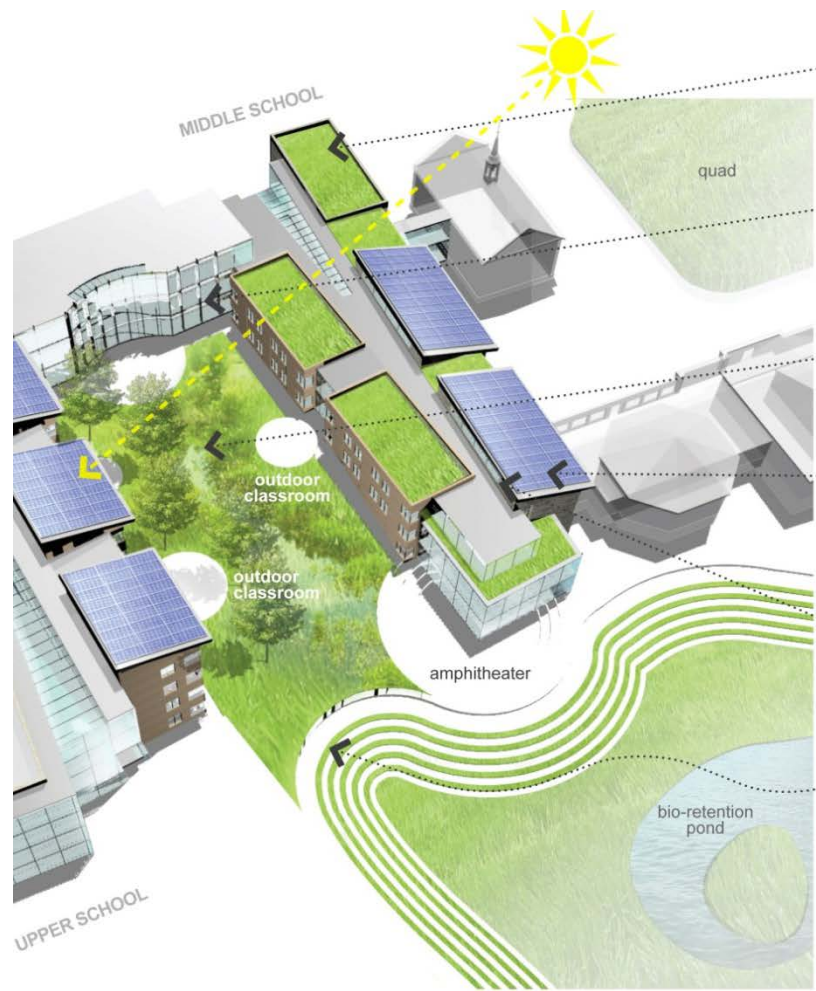
EXEMPLAR HALLWAY



EXISTING CLASSROOM



EXEMPLAR CLASSROOM



LANDSCAPE

opportunity for green roof areas [reduces rainwater run-off to creek], expanded habitat areas, integrated native/natural landscape, future connections to the creek, & program opportunities



SUN

shield for summer sun & capture winter sun



WATER

opportunity for raingardens [reduces stormwater run-off, increases habitat, integrate collection of rainwater for planting irrigation & toilet flushing]



SUN

opportunity for photo voltaic & solar hot water



DAYLIGHT

capture northern daylight & other daylighting opportunities



WIND

opportunity for natural ventilation & energy recovery



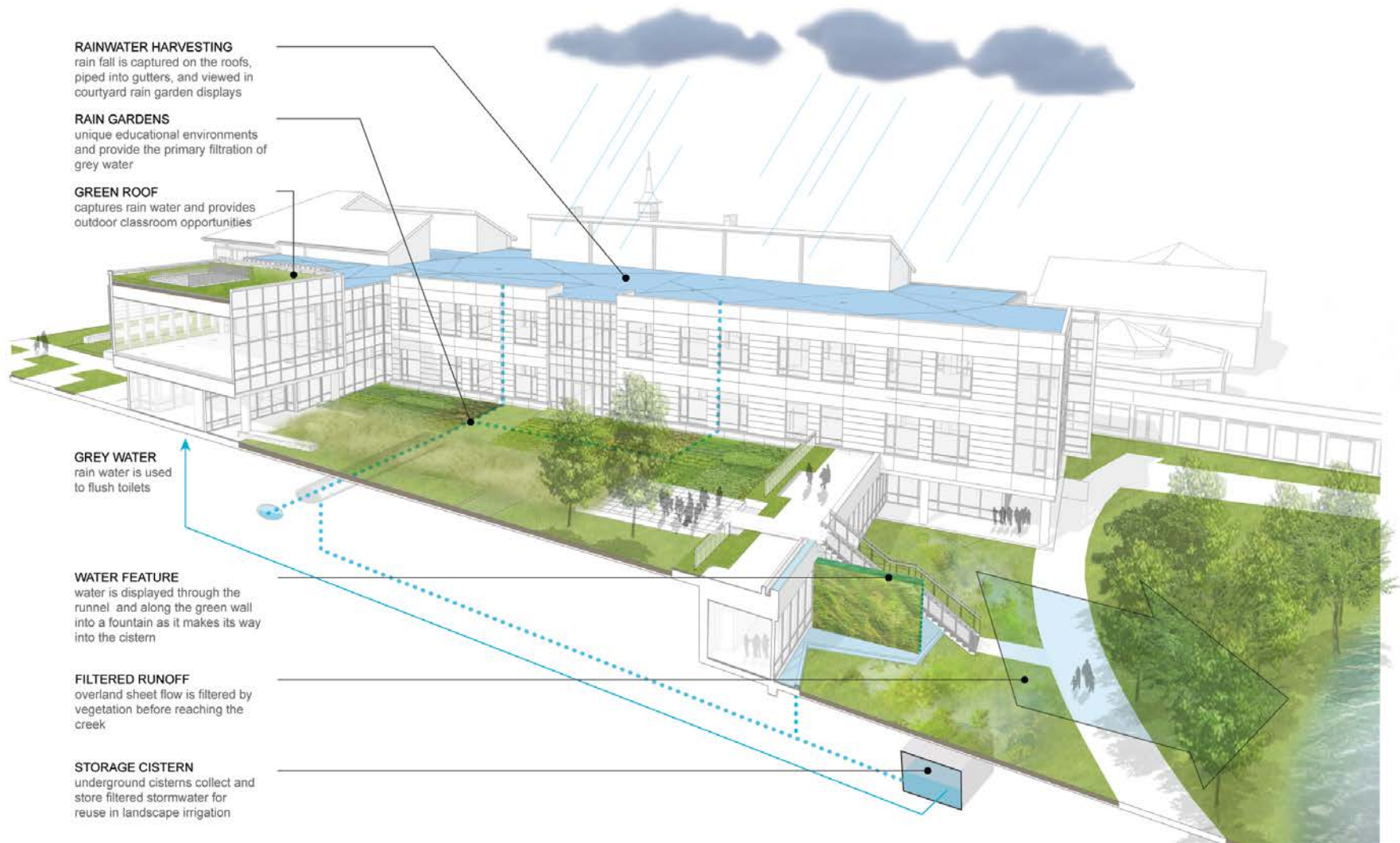
EARTH

opportunity for geo-exchange for heating & cooling

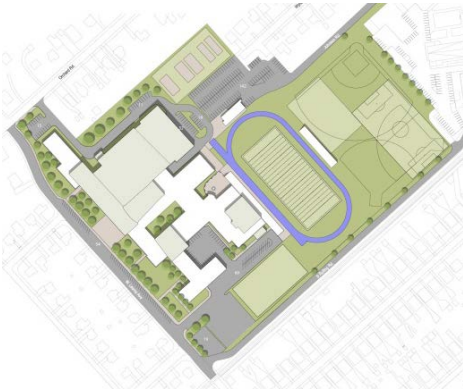


EARTH

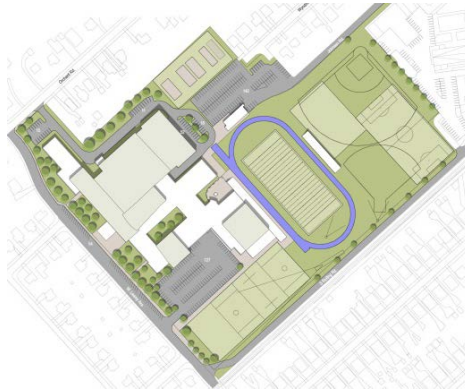
opportunity to re-use existing materials in various ways, & recycle waste materials







Maintain Existing



Renovate Existing



New Leamy



New Saxer

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