

East Longmeadow High School

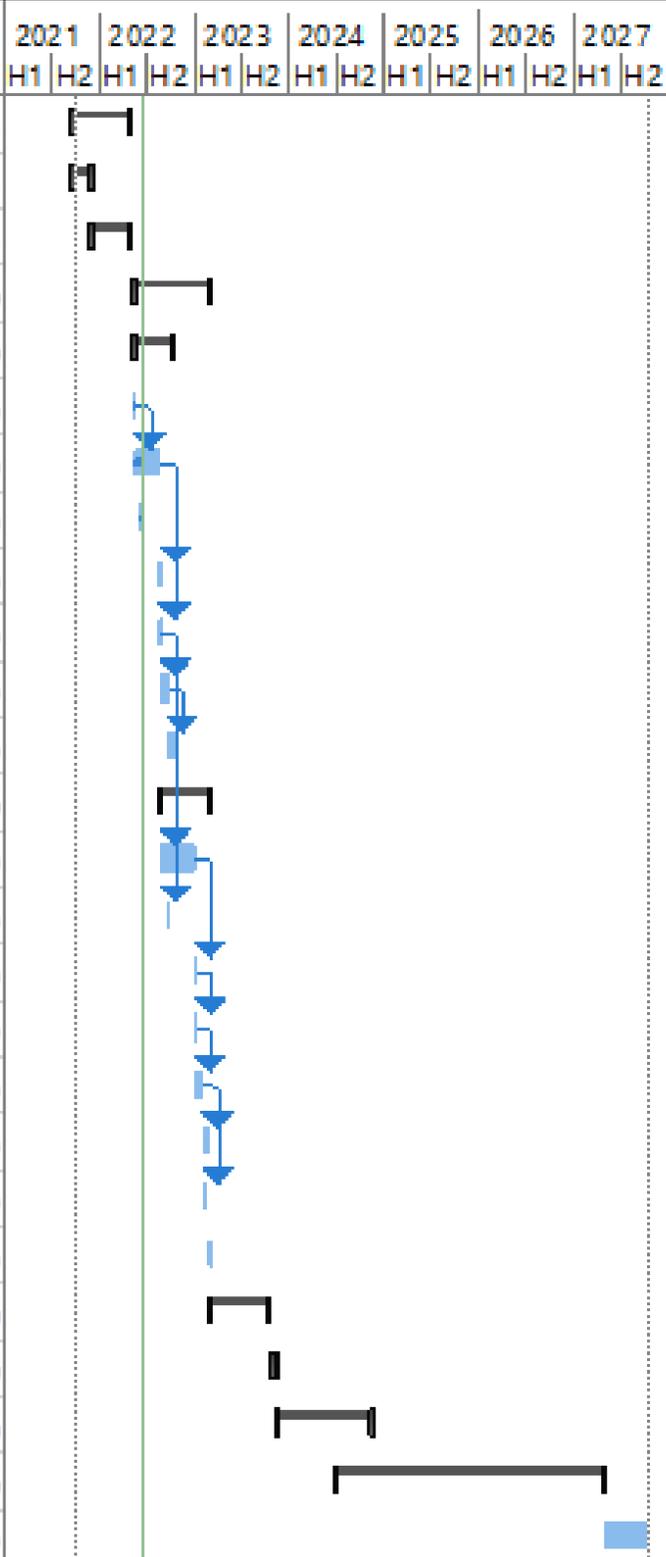


in association with



- 1) Welcome/Approval of Minutes
- 2) Skanska Update
- 3) JWA/SMMA Update
 - Review of Existing Conditions
 - Review of Results of Visioning Process
 - Review of Results of Programming
 - Discussion of PDP Options
- 4) Communications Update
- 5) New Business
- 6) Questions/Public Participation

ID	Task Name	Duration	Start	Finish	% Complete	2021	2022	2023	2024	2025	2026	2027
						H1	H2	H1	H2	H1	H2	H1
1	Module 2: Forming the Project Team	159 days	Mon 9/27/21	Thu 5/5/22	100%							
2	OPM Selection Process	52 days	Mon 9/27/21	Tue 12/7/21	100%							
11	Designer Selection Process	107 days	Wed 12/8/21	Thu 5/5/22	100%							
29	Module 3: Feasibility Study	206 days	Wed 5/25/22	Wed 3/8/23	9%							
30	Module 3.1: Preliminary Design Program	105 days	Wed 5/25/22	Tue 10/18/22	21%							
31	MSBA / Project Team Kick-off Meeting	1 day	Wed 5/25/22	Wed 5/25/22	100%							
32	PDP Submittal Development	68 days	Thu 5/26/22	Mon 8/29/22	30%							
33	Community Forum	1 day	Wed 6/15/22	Wed 6/15/22	100%							
34	SBC Approval of PDP Submission	1 day	Tue 8/30/22	Tue 8/30/22	0%							
35	PDP Submittal to MSBA	1 day	Tue 8/30/22	Tue 8/30/22	0%							
36	MSBA Review of PDP	21 days	Wed 8/31/22	Wed 9/28/22	0%							
37	Address PDP MSBA Comments	14 days	Thu 9/29/22	Tue 10/18/22	0%							
38	Module 3.2 Preferred Schematic Report	136 days	Wed 8/31/22	Wed 3/8/23	0%							
39	PSR Submittal Development	95 days	Wed 8/31/22	Tue 1/10/23	0%							
40	Community Forum	1 day	Wed 9/28/22	Wed 9/28/22	0%							
41	SBC Approval of PSR	1 day	Wed 1/11/23	Wed 1/11/23	0%							
42	PSR Submittal to MSBA	1 day	Thu 1/12/23	Thu 1/12/23	0%							
43	MSBA Review of PSR	21 days	Fri 1/13/23	Fri 2/10/23	0%							
44	Address MSBA PSR Comments	14 days	Mon 2/13/23	Thu 3/2/23	0%							
45	FAS Presentation	1 day	Fri 2/17/23	Fri 2/17/23	0%							
46	MSBA Board Meeting - PSR Approval	1 day	Wed 3/8/23	Wed 3/8/23	0%							
47	Module 4: Schematic Design	160 days	Thu 3/9/23	Wed 10/18/23	0%							
59	Module 5: Funding the Project	12 days	Thu 11/9/23	Fri 11/24/23	0%							
64	Module 6: Detailed Design	260 days	Mon 11/27/23	Fri 11/22/24	0%							
100	Module 7: Construction	736 days	Wed 7/10/24	Wed 5/5/27	0%							
107	Module 8: Completing the Project	115 days	Thu 5/6/27	Wed 10/13/27	0%							



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EXISTING CONDITIONS SURVEY



Architects, Engineers & Hazmat Assessment Team visit
June 17, 2022

Existing Conditions Survey - SITE

Site Located Less Than One (1) Mile West of Town Center.

Existing Site Access From Maple Street (Primary) and Norden Street (Secondary).

Site abuts residential neighborhoods and industrial properties, as well as Redstone Rail Trail.

Currently No Town-Owned Land Available for Connection South to Chestnut Street.

Existing Public Sidewalk Along North Side of Maple Street



Existing Conditions Survey - SITE

61.40 Acres (1 Parcel).

More than Adequate Parking.

Athletic Fields and Courts are Extensive and in Good Overall Condition.

Lack of Separation Between School Bus and Passenger Vehicle Traffic.

General Safety Concerns and Lack of Efficiency with Overall Vehicular Circulation.

Lacks Dedicated Pedestrian Routes and Areas in Main Parking Lot and Between Building and Stadium.

Loading | Service Area Cannot Accommodate Large Vehicles.



Existing Conditions Survey - SITE



AM Arrival Patterns



PM Dismissal Patterns



Parking Conditions and Lack of Faculty | Student Parking Separation



Accessible Parking and Routes Not ADA | AAB Compliant



Existing Conditions Survey - SITE



Walkway Conditions



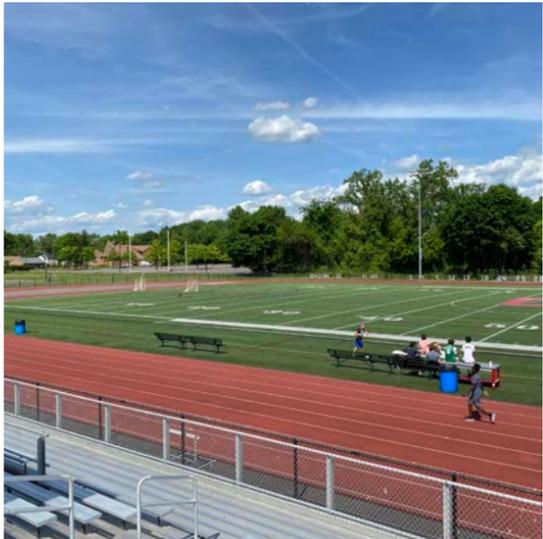
Undersized Loading | Service Area



Internal Courtyards



Concessions | Press Box | Storage



Athletic Fields



Main Entrance Green



Drainage & Utilities



Athletic Fields

Existing Conditions Survey - STRUCTURE

(1) Flat roof structure consists of open web steel joists, steel girders, and metal roof deck



(1) Typical Flat Roof Framing

(2) Elevated floor structure consists of open web steel joists, steel girders and concrete floor slab on deck



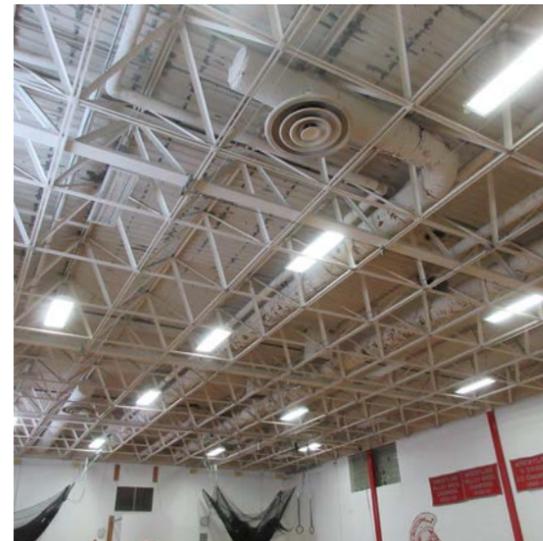
(2) Elevated floor framing

(3) Original gym roof consists of steel bents supporting steel beam purlins and metal roof deck.



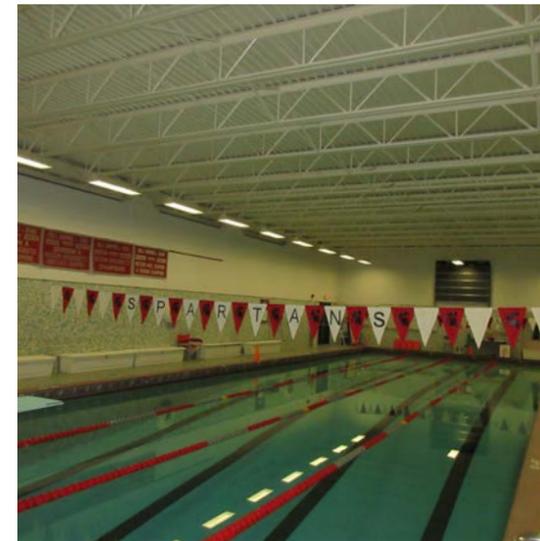
(3) Main Gym Structure

(4) Gym addition & industrial arts addition roofs are structured with steel space trusses and metal roof deck



(4) Gym 1973 Addition Structure

(5) Swimming pool roof consists of long span open web joists and metal roof deck



(5) Swimming Pool Structure

(6) Façade stucco shows cracking/delamination



(6) Typical façade stucco condition

Existing Conditions Survey - ARCHITECTURE

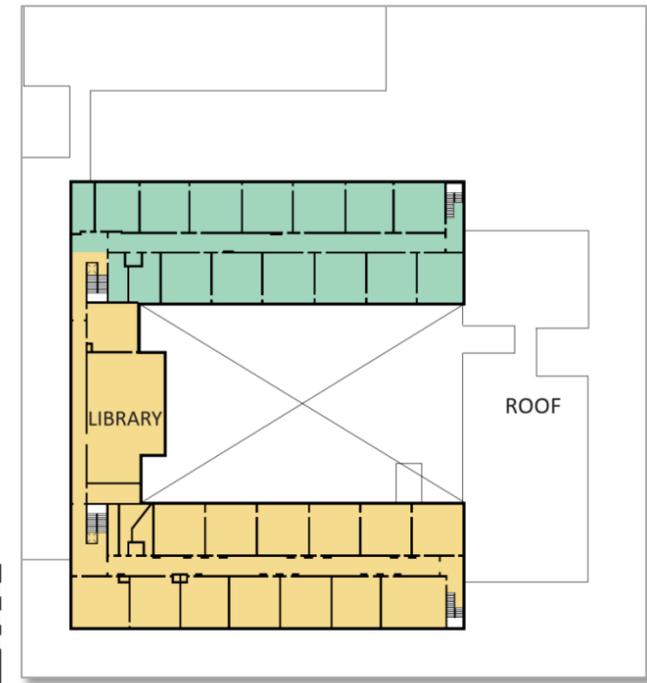
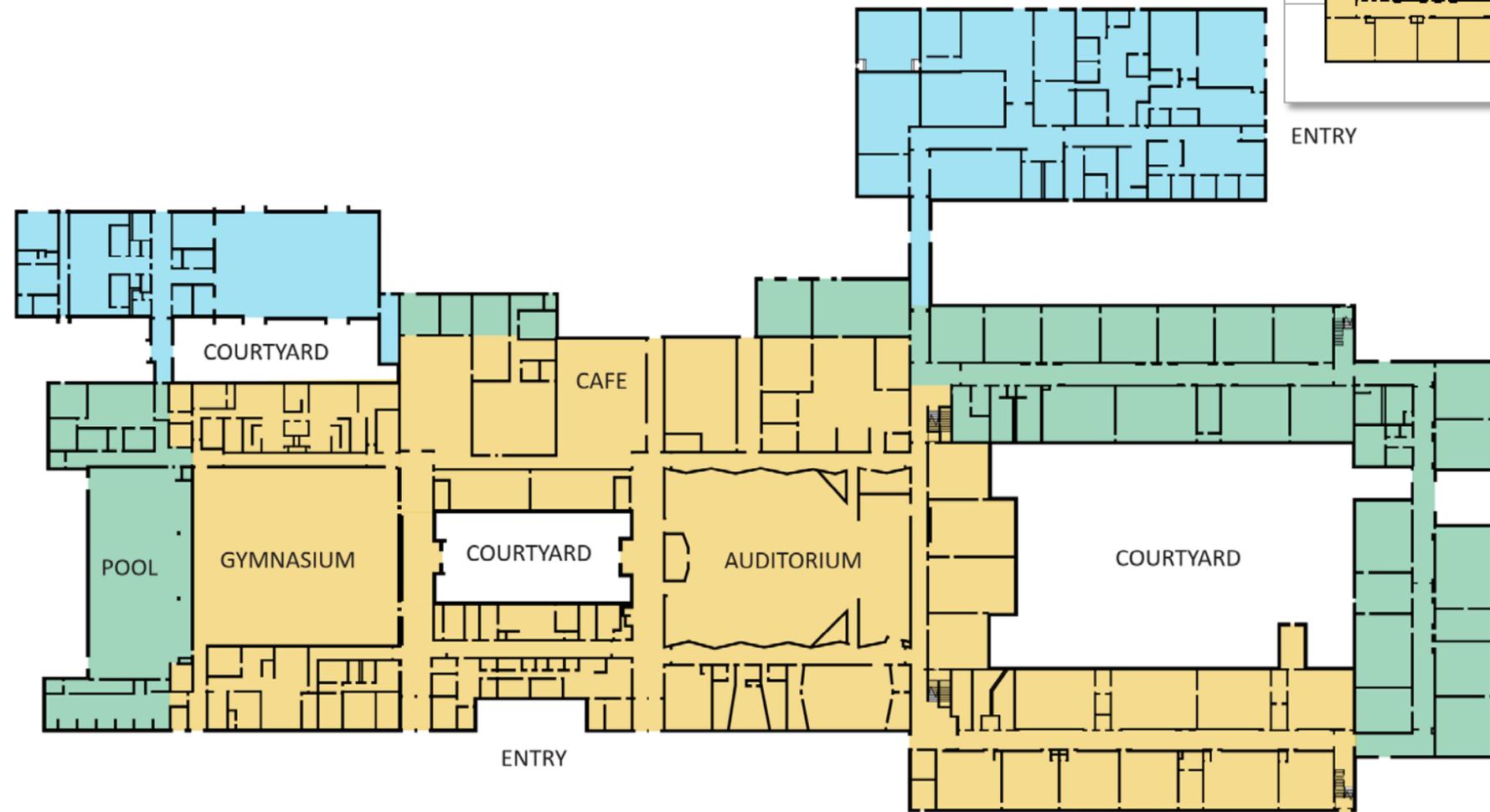
The building has held up remarkably well for 60+ years.

Convoluting circulation – a result from the different eras of construction.

Finishes are robust – though colors are of course dated and fixed.

Poor architectural conditions – as expected – for a building of this age.

Significant quantities of hazmat material.



Existing Conditions Survey - ARCHITECTURE

(1) Many classrooms show personality, display of student work and content. However this is not the case in hallways and shared space.

(2) The school has discovered outdoor spaces during the pandemic and is using them well.

(3) The school demonstrates a strong sense of pride and vibrant athletic/sport and wellness focus.

(4) There are spaces where student centered/UDL learning is on display.



(1) Graphics/Business Classroom/Personalization



(3) Gym/Spirit/Strong Athletics



(2) Courtyards that are well-utilized



(2) Evidence of programs to nurture student interest/discovery

Existing Conditions Survey - ARCHITECTURE

(1) Furnishings are dated, inconsistent, ergonomically inappropriate and discouraging of collaboration and project-based learning



(1) Make-do furniture & casework - Pre K CR

(2) First impressions of the school are vibrant and caring, but layout and materials send a different message.



(2) Entry/Security Concern/Lack of Welcome

(3) Hard surfaces, grid ceilings, dated tile reinforce 1950s institutional feel of school.



(3) Dated, institutional corridor, lacks student space

(4) Important civic spaces and classrooms lack natural light or appropriate ventilation or sense of connection.



(4) Non-public/windowless meeting rooms

Existing Conditions Survey - ARCHITECTURE

(1) Exterior sheet cladding in very poor condition.



(1) Exterior

(2) Brick exterior walls in good condition with a small number of areas with brick spalling – and some brick movement.



(2) Select areas of brick spalling and movement

(3) Original exterior window system remains and is located behind EIFS envelope system that is wearing and blocking daylight.



(3) "Updated" windows

(4) Roof is in poor shape. History of leaks. Minimal slopes. Surprisingly low / minimal flashing at adjacent walls.



(4) Low flashing and evidence of ponding

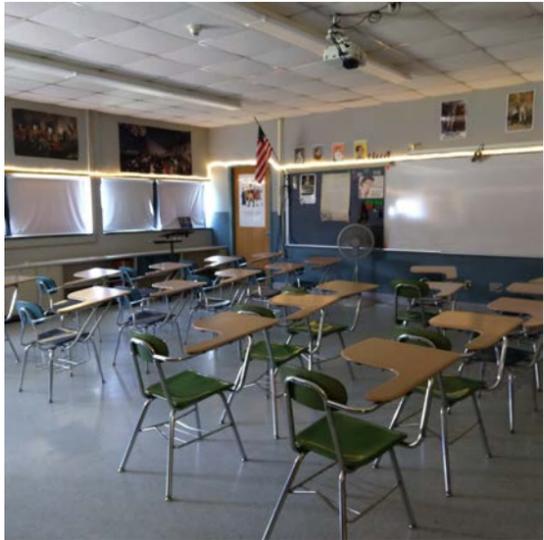
Existing Conditions Survey - ARCHITECTURE



Lack of compliance with MAAB / ADA in numerous locations



Science facilities outdated and lack necessary infrastructure



Blinds pulled permanently - to try to help control glare and heat



Deteriorating floor finishes



Bathrooms that cannot be monitored have been abandoned



Small windows at perfectly wrong height



Major public spaces lack technology and updated finishes



Water infiltration at pool basement

Existing Conditions Survey - ELECTRICAL

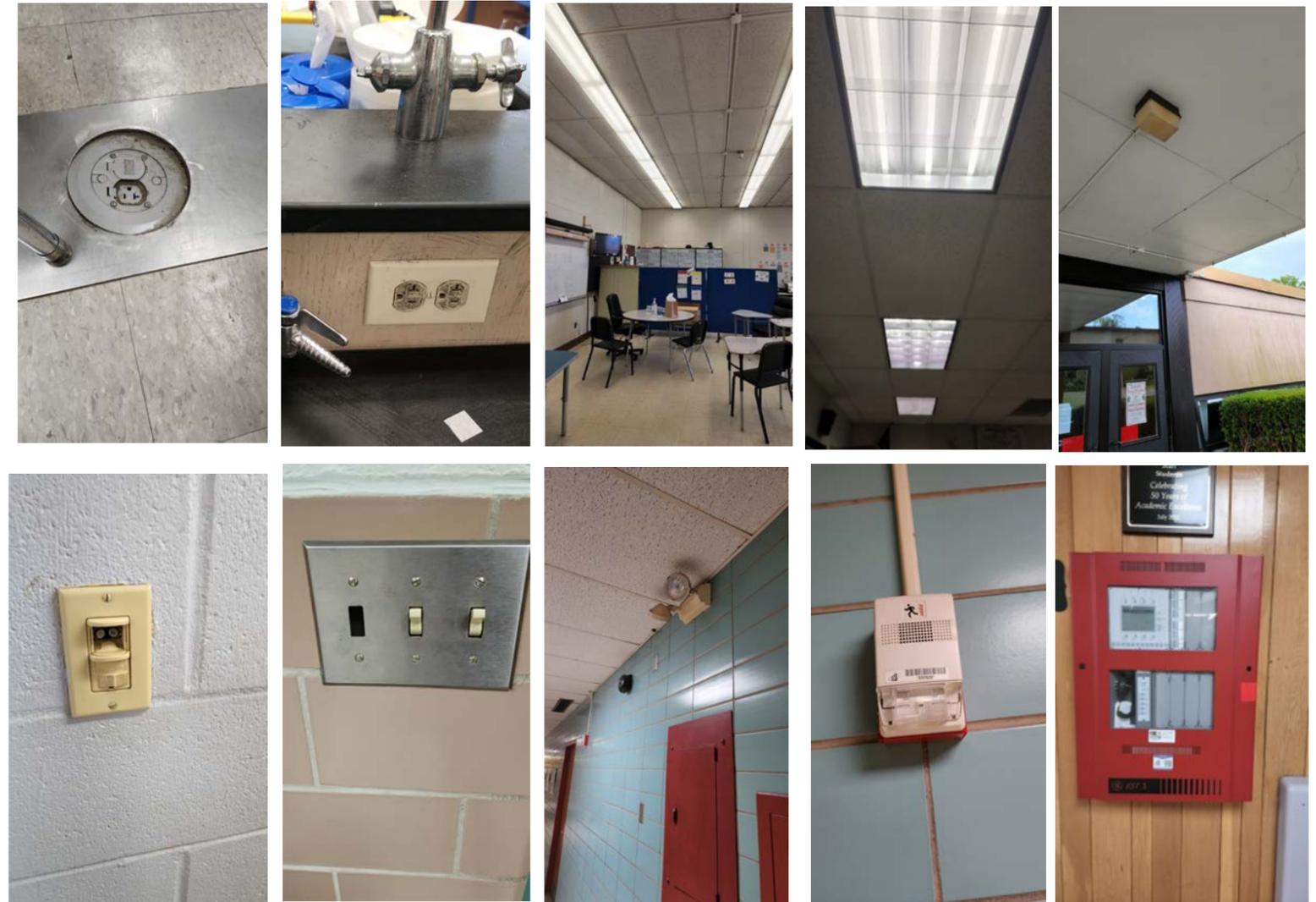
- Existing outdoor utility transformer and the Main Distribution Panel, by Eaton, rated 1,200 Amp 277/480v 3ph 4w, were installed during 1975 school building addition. Although the Main Distribution panel is in good operational condition, it's reaching its 50-yr life expectancy.
- The Main Distribution Panel is feeding the Original 1965 Distribution panel, by General Electric, rated 120/208v 3ph 4w, via an indoor 500KVA stepdown transformer. The Original Distribution panel is in poor condition and beyond its life expectancy.
- The Main and Original Distribution Panels feed (37) branch panels, installed throughout the building. Majority of panels are in poor condition and beyond their life expectancy, except for a few "newer" ones, such as Gym panels and Kitchen panels. All downstream power feeders are old, except for a few ones associated with recent upgrades.
- There is no Emergency Generator on site. The building heating systems, elevator, kitchen refrigeration equipment, etc. - all have no emergency power back-up.



Utility Transformer, Main Distribution Panel, Typical Small Power Panels

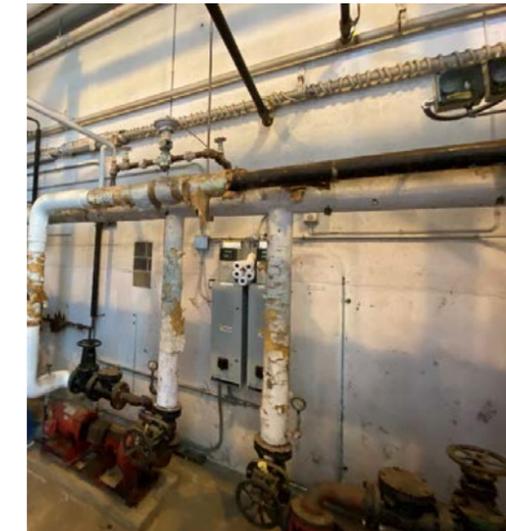
Existing Conditions Survey - ELECTRICAL

- All building areas have wall- and floor-mounted receptacles, the age and condition vary. Majority of receptacles are beyond their useful life. Typical classrooms have insufficient quantity of receptacles. Science classrooms have non-GFI outlets at counters with sinks (code violation). Some floor-mounted outlets are missing covers. Kitchen receptacles are non-GFI (code violation).
- Lighting system consists of surface-, recessed- and pendant-mounted lights, primarily with non-dimming T8 fluorescent lamps. Both gyms have high output non-dimmable T5 fluorescent lamps. In general, lighting illumination levels are adequate, however lighting fixtures are dated and have no means for adjusting the lighting levels accommodating different tasks. Exit signs with integral emergency light heads and emergency battery units are provided throughout, appear to be in fair condition. Exterior lights are operational, but old.
- Limited lighting controls are present, but not throughout the entire building – occupancy sensors were observed in a few classrooms and small rooms (some sensors are not operational). There are no daylight sensors or time controls. Lights in corridors are manually switched.
- Fire alarm system is in good operational condition.



Existing Conditions Survey - Mechanical

- Most of the HVAC equipment has exceeded its life expectancy.
- Although boilers are 10-14 years old, there is no central boiler plant or centralized heating hot water distribution.
- Hot water pumps and piping require replacement.
- Fuel oil in two underground tanks not used. Underground fuel oil piping and associated pumps – condition unknown.
- Window units, DX and/or water-cooled split systems require replacement.
- Other than select areas noted above, there is no air conditioning in the building.
- Pneumatic HVAC controls require replacement.



Existing Conditions Survey - MECHANICAL

- Unit ventilators, associated hot water piping and accessories serving classrooms require replacement.
- Finned tube radiation, cabinet unit heaters and convectors require replacement.
- Air systems equipment, ductwork and associated components serving Auditorium, Large Gym, Small Gym, Pool, Cafeteria, Kitchen, and Locker Rooms require replacement.
- Fume hood and associated ductwork in Chemistry classroom require replacement.
- All HV units and exhaust fans require replacement.



Existing Conditions Survey – PLUMBING & FIRE PROTECTION

Plumbing fixtures require updates for water efficiency and accessibility

Sanitary and Vent piping, where visible, are beyond their lifespan.

Storm piping, where visible, appear to be original to the building and out of date. Facility is not equipped with overflow/secondary drainage.

Domestic Hot Water Heaters in boiler room in fair condition. Heaters in several locations not operational. Hot water loops provide sporadic hot water to fixture locations.

Domestic water piping outdated, insulation intermitted, outdate where present.

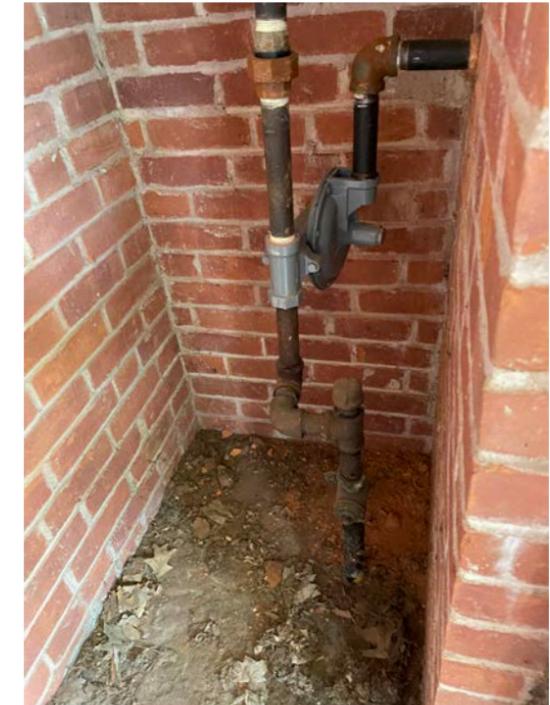
(2) Natural Gas entrances and distributions, high and low pressure, in fair condition.

Compressed air system, equipment and piping approaching life span.

Facility is currently not equipped with Fire Protection Systems.



Waste and Domestic Water Piping



Low Pressure Natural Gas Entrance



Non-Operational Water Closet



Water Service Entrance

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Visioning

Completed First & Second Visioning Workshops

June 13, 2022

June 22, 2022

Completed Public Forum at East Longmeadow High School

June 15, 2022





Visioning Key Takeaways

Education:

- Rigorous core curriculum
- Continued Electives
- Sense of "Joy" in learning
- Global/competitive mindset
- All learners supported/valued
- Value music, arts & movement
- Need more collaborative spaces
- Encourage more STEM/STEAM
- Remove barriers to learning/UDL
- Emphasis on mental health support

Architecture:

- A social/active "center/commons"
- Bring nature "in"/connect to outdoors
- Better lab spaces (Sci, STEM & FACS)
- More flexible classrooms
- "Timelessness"/not too modern
- New media center with presentation space and varied use
- Updated, multipurpose auditorium
- More user-friendly cafeteria
- Design for safety/security
- Logical wayfinding
- Learning happening everywhere

Community:

- Welcoming
- Intergenerational/cultural
- Community Mtg Space
- Community Pool
- Expanded Learning
- Recreational Use
- ELCAT
- Better traffic pattern
- Sustainable Design

Programming

Existing ELHS

- 185,614gsf
- 37 Classrooms (varied sizes)
- No planning rooms
- No breakout rooms
- Undersized Labs and STEM spaces
- Undersized Gym
- Undersized Media Center (2,825sf)
- Oversized Auditorium (7,298sf)
- Oversized Dining (8,570sf)
- Oversized Art Rooms
- Even on Admin/Slightly under on Medical
- Abundant storage

MSBA 800 Student High School

- 164,800gsf
- 27 Classrooms @ 850sf/ea
- 2,700sf Planning rooms
- 1,000sf Breakout rooms
- 1,400sf Science Labs plus 200 sf prep rooms
- 12,000sf Gym + 3,000sf Alt PE space
- (5) Voc Tech Spaces of 1,440sf
- 4,900sf Media Center
- 5,333sf Auditorium
- 7,500sf Dining
- Even on Administration

Key Takeaways

Anticipate	Anticipate exceeding MSBA in Core Academic, Physical Education & Special Education categories in order to provide for ELHS programming needs.
Recommend	Recommend matching MSBA in Media Center, Arts, Auditorium, Voc Tech, Dining, Admin & Medical, Custodial.
Assume	Assuming additional non-reimbursed community space square footage (Central Office, Town IT, Town Pool, Additional Locker Room Space, Community Room, ELCAT Offices).
Result	Proposed 201,125 gsf (36,325gsf over MSBA Base Reimbursed SF & 15,500sf more than current building)

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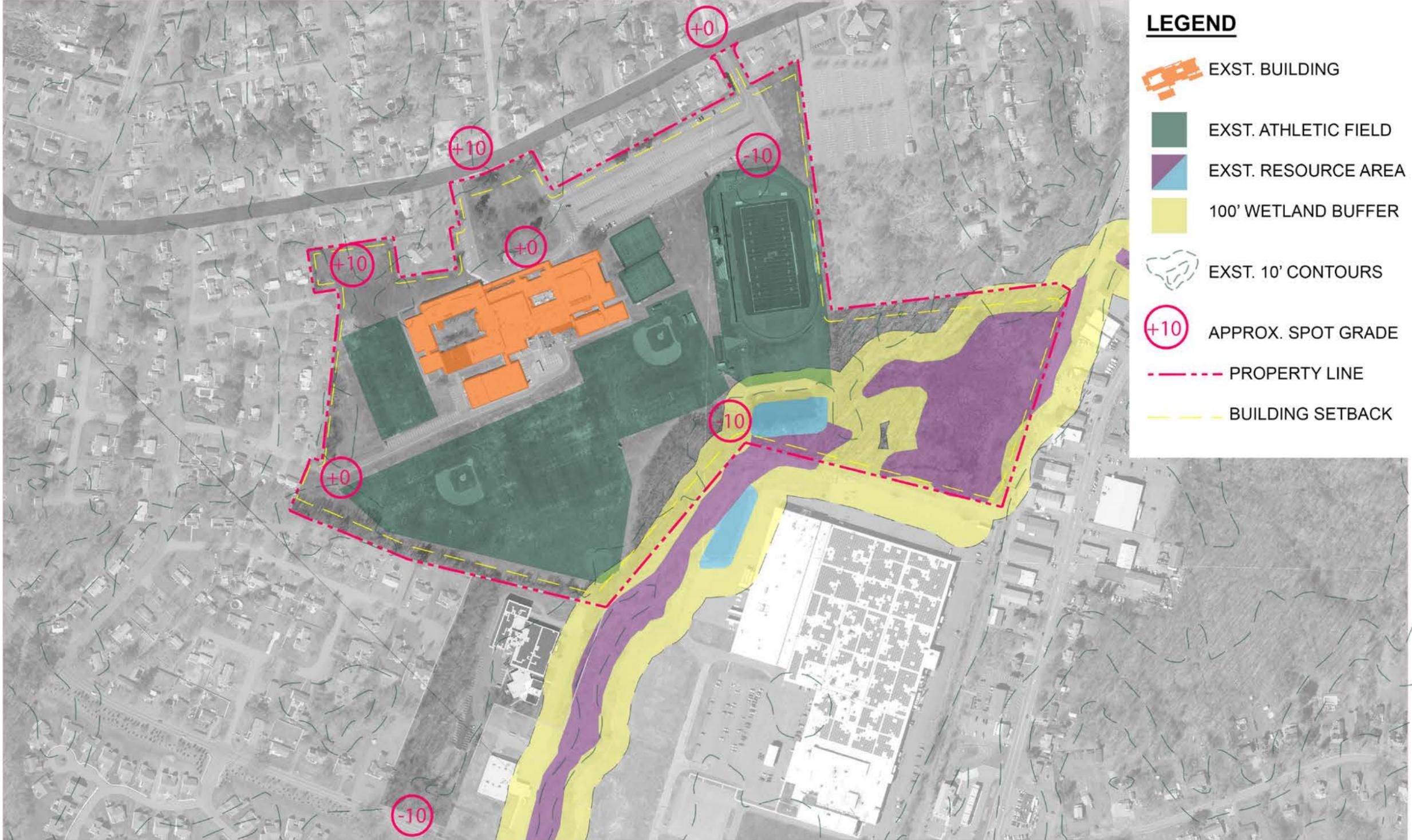
Preliminary Development Studies

- Site Considerations
- Potential Buildable Areas Considered

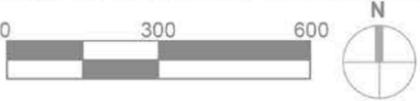
PROPOSED OPTIONS FOR DISCUSSION:

1. Code Upgrade
2. Addition / Renovation
3. New Construction (Center of Site - Option A)
4. New Construction (Center of Site - Option B)
5. New Construction (South End of Site - Option A)
6. New Construction (South End of Site - Option B)

Site Considerations



- LEGEND**
- EXST. BUILDING
 - EXST. ATHLETIC FIELD
 - EXST. RESOURCE AREA
 - 100' WETLAND BUFFER
 - EXST. 10' CONTOURS
 - APPROX. SPOT GRADE
 - PROPERTY LINE
 - BUILDING SETBACK



Potential Buildable Areas Considered

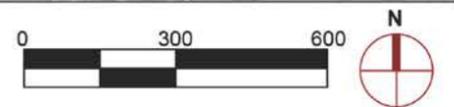
SITE CONSIDERATIONS:

- Spatial Restrictions
- Proximity to Neighbors
- Poor Visibility from Maple Street
- Conflicts with Existing Facility (building and track and field)



Legend

- Preferred Site
- Site Not Recommended
- Views to Site



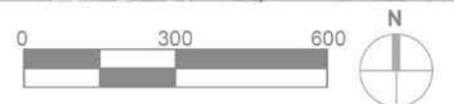
1. Code Upgrade (required inclusion)

ARCHITECTURE:

- Maintains current entry
- Remediates hazmat
- Brings building up to code
- Undersized labs, classrooms & Gym

SITE:

- Accessibility upgrades
- Circulation reconfiguration
- Utility upgrades



2. Addition/Renovation

ARCHITECTURE:

- Maintains current entry location
- Requires swing space

SITE:

- Accessibility upgrades
- Circulation reconfiguration
- Utility upgrades
- Open space reconfiguration
- Outdoor classroom opportunities in pockets



LEGEND

-  BUILDING LOCATION
-  MAIN ENTRY
-  RECREATIONAL FIELDS



3. New Construction (Center of Site – Embracing Green)

ARCHITECTURE:

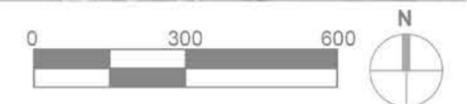
- Suboptimal solar orientation
- Building between playing fields

SITE:

- Large, continuous green to west
- Bike/ped connections to neighborhood
- Building adjacent to game field
- Western exposure for entry
- Opportunity for N/S vehicle axis



LEGEND	
	BUILDING LOCATION
	MAIN ENTRY
	VEHICULAR CIRCULATION
	PEDESTRIAN / EMERGENCY ACCESS
	PARKING
	PLAZAS & WALKWAYS
	RECREATIONAL FIELDS



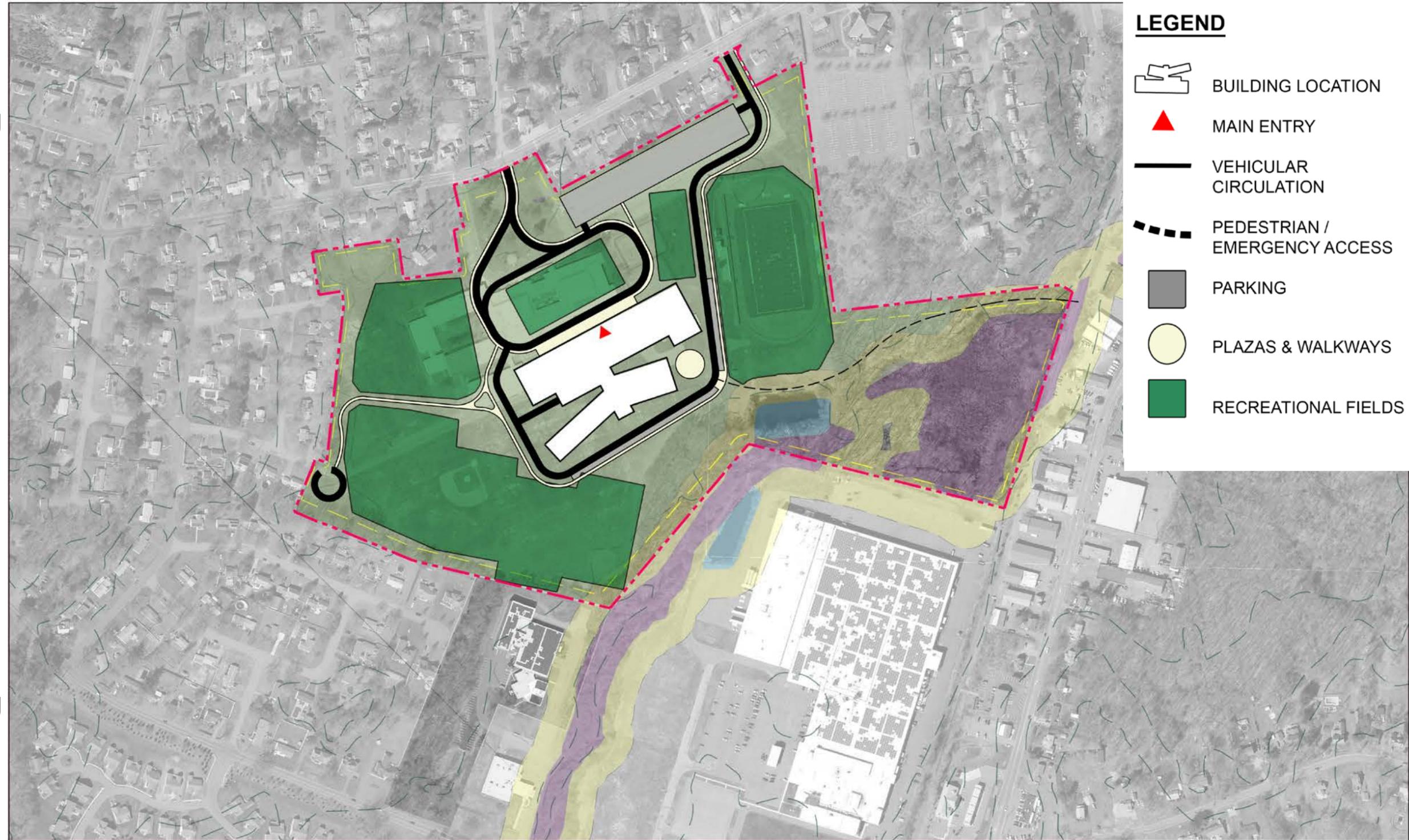
4. New Construction (Center of Site – Central Green)

ARCHITECTURE:

- Some overlap on existing footprint
- Fronts towards Maple
- Good solar orientation
- Building surrounded by playing fields

SITE:

- Provides expansive green at front entry
- Eliminates Norden connection
- Maintains current parking strategy
- Improves pedestrian access



LEGEND	
	BUILDING LOCATION
	MAIN ENTRY
	VEHICULAR CIRCULATION
	PEDESTRIAN / EMERGENCY ACCESS
	PARKING
	PLAZAS & WALKWAYS
	RECREATIONAL FIELDS



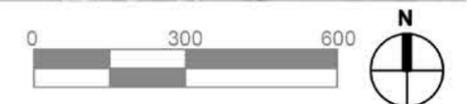
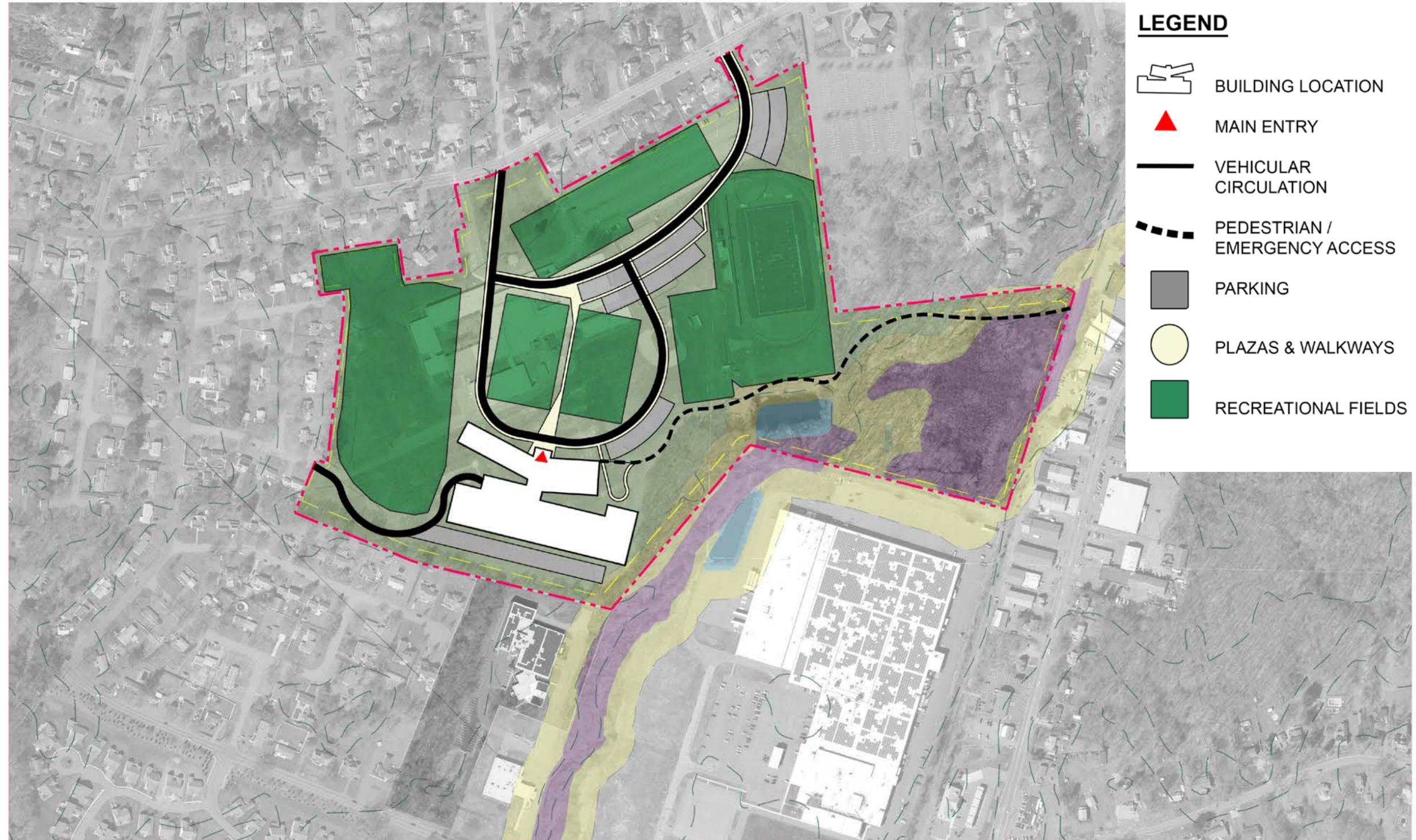
5. New Construction (South End of Site – Big Bow Little Bow)

ARCHITECTURE:

- Dramatic arrival
- Good solar orientation
- Building behind playing fields
- Separation between building and football field / track.

SITE:

- Large green to north
- Spreads parking
- Uses Norden for emergency access and loading



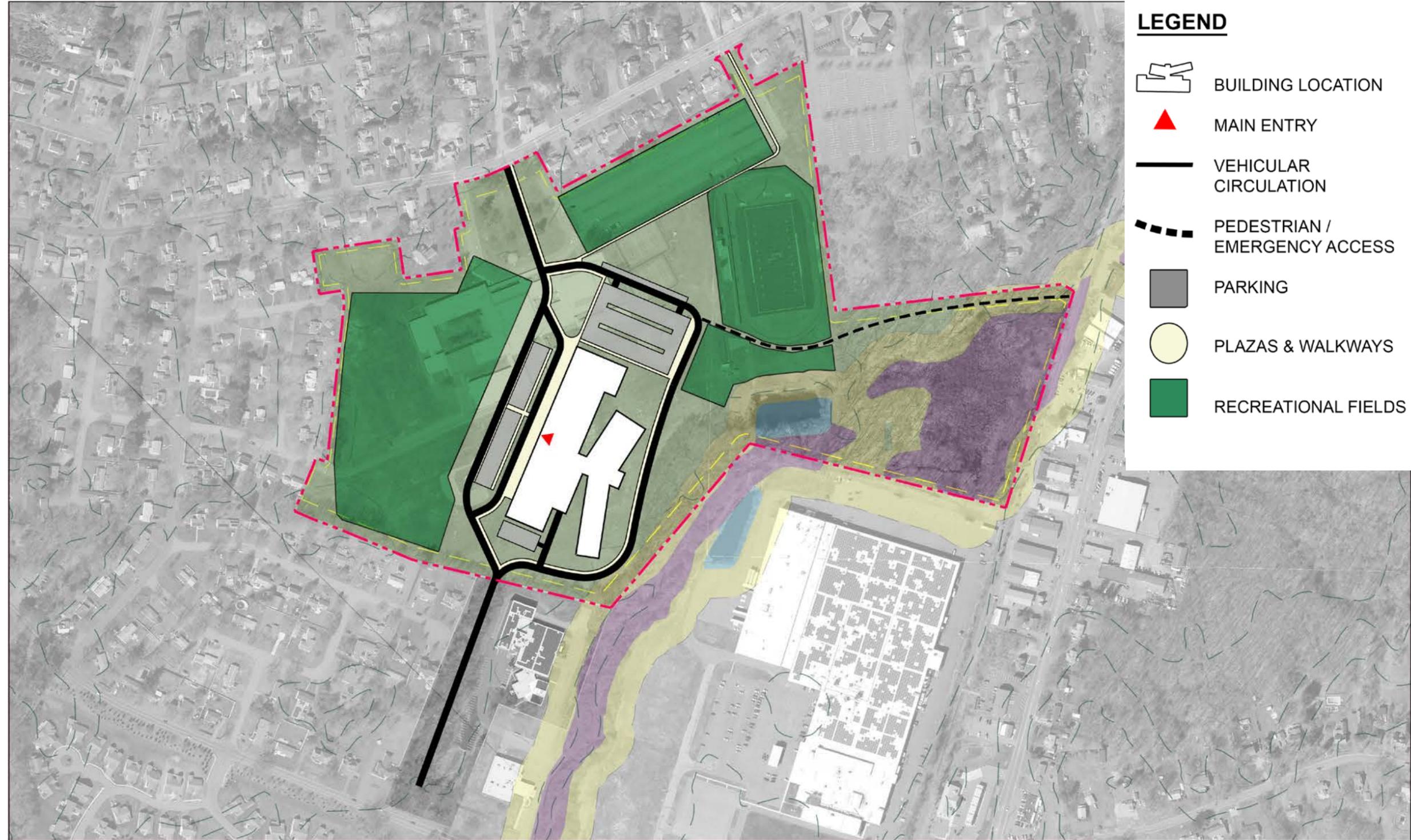
6. New Construction (South End of Site – Option B)

ARCHITECTURE:

- Building on north/south axis
- Suboptimal solar orientation

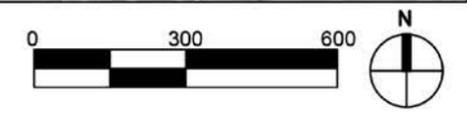
SITE:

- Organizes around Chestnut connection
- Roads and building bifurcate site
- Greater impact on athletic program
- Spreads parking



LEGEND

- BUILDING LOCATION
- MAIN ENTRY
- VEHICULAR CIRCULATION
- PEDESTRIAN / EMERGENCY ACCESS
- PARKING
- PLAZAS & WALKWAYS
- RECREATIONAL FIELDS



3.



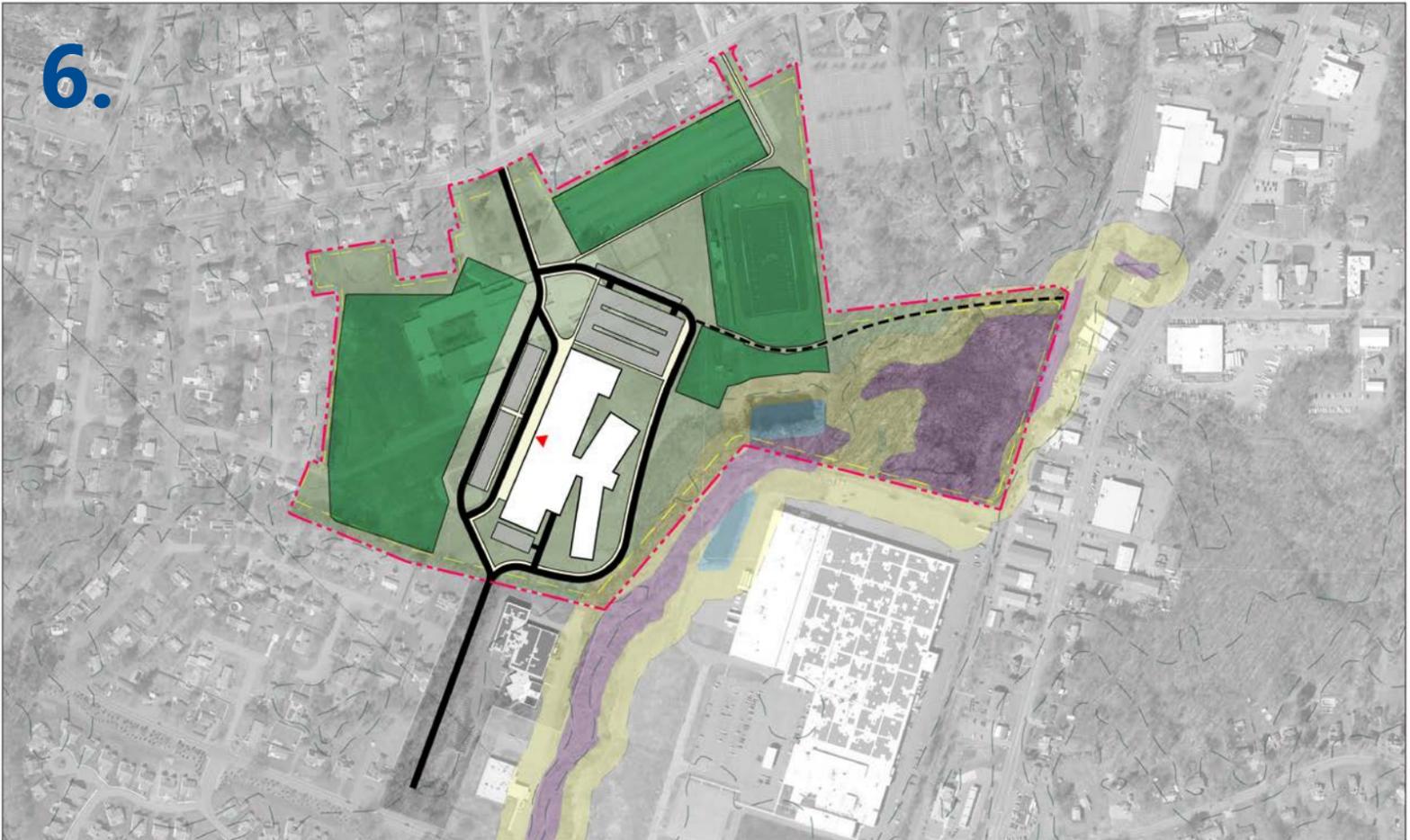
4.



5.



6.



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Next Meeting Time?

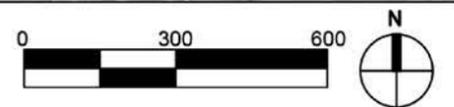


Thank you

4. New Construction (Center of Site – Flying J)

ARCHITECTURE:

- Overlaps existing footprint
- SITE:
- Increases use of Norden
- Spreads parking



7. New Construction (South End of Site – Horseshoe)

ARCHITECTURE:

- Building behind playing fields
- Dramatic arrival

SITE:

- Spreads parking
- Green space to north and within loop
- Uses Chestnut connection for emergency access

