

Springfield High School

Springfield School District
Delaware County - Pennsylvania

Master Plan Status Update

Presentation to Springfield School District

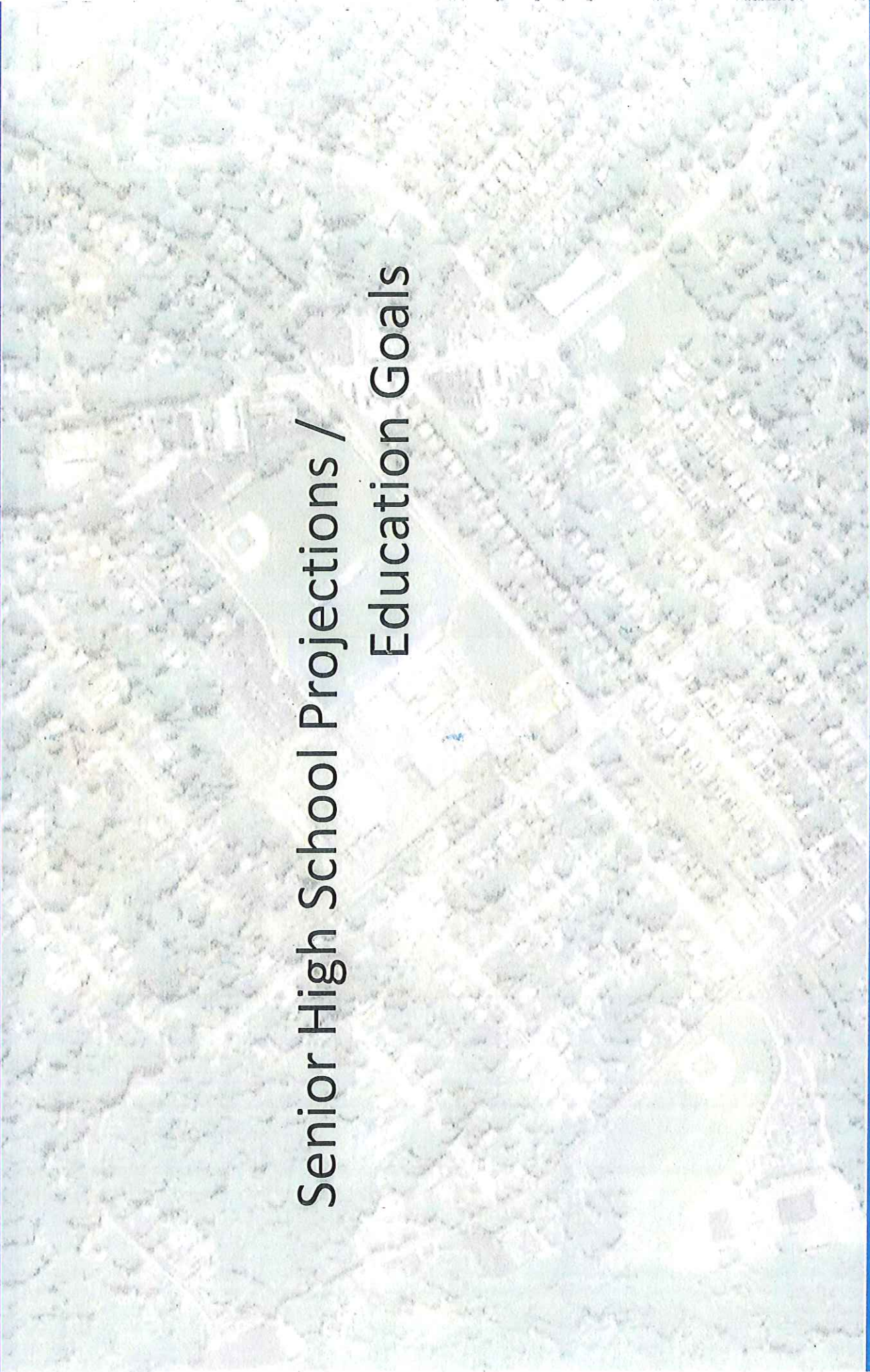
School Board Meeting / Executive Session - January 23, 2014

32

Outline

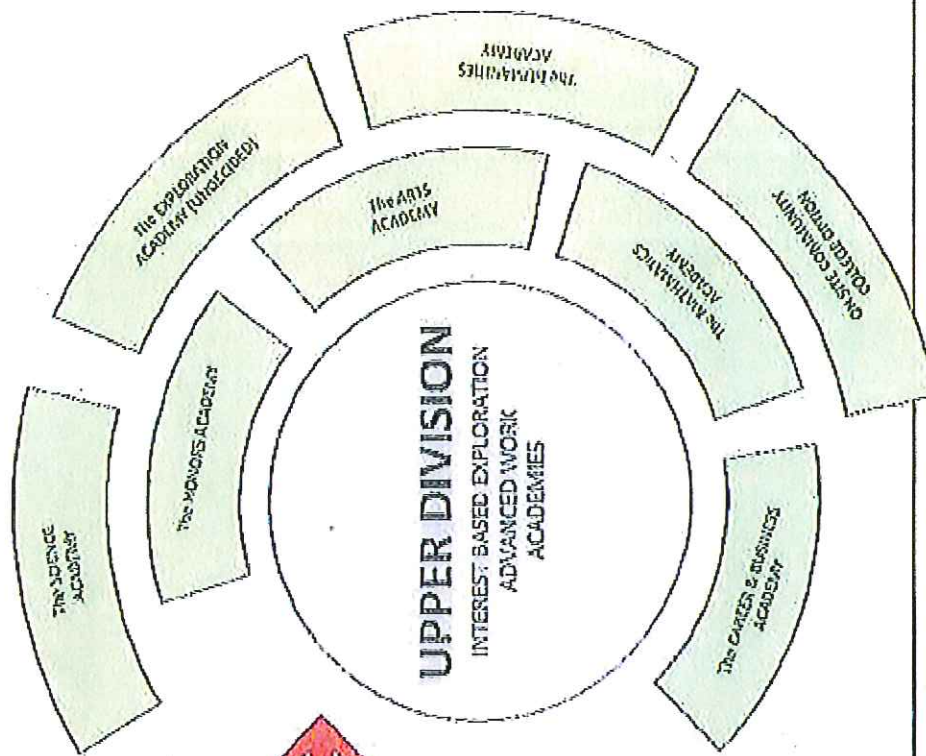
- Senior High School Projections / Education Goals
- Right Sizing the 'Box' / Program Goals
- Existing Facility
- Facility Master Plan Options
- Financing and Schedule
- Discussion

Senior High School Projections / Education Goals

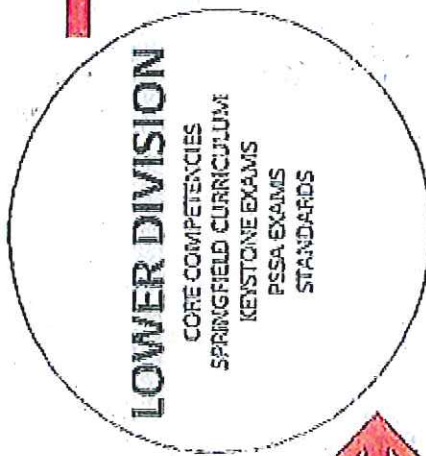


SPRINGFIELD PUBLIC ACADEMY

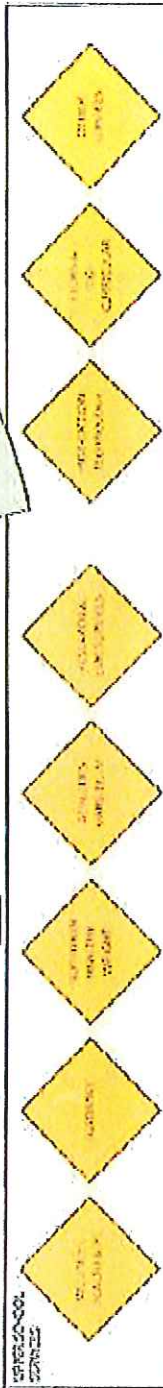
A new public post-secondary model for education
Teach every student to LEARN!



COMPETENCY BASED MATRICULATION to UPPER DIVISION



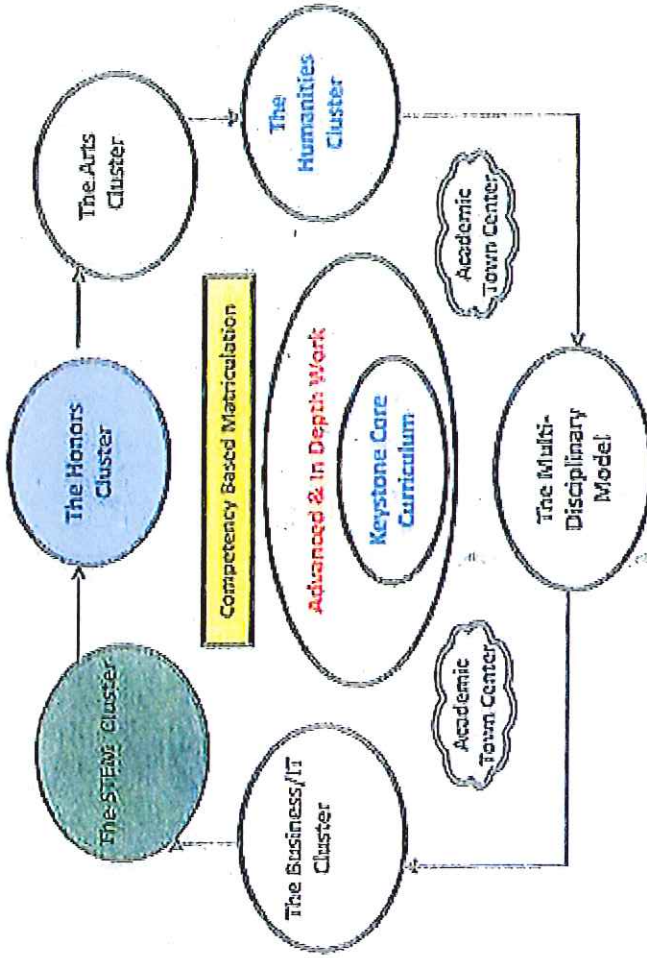
CONVENTIONAL MATRICULATION to UPPER SCHOOL



UPPER DIVISION

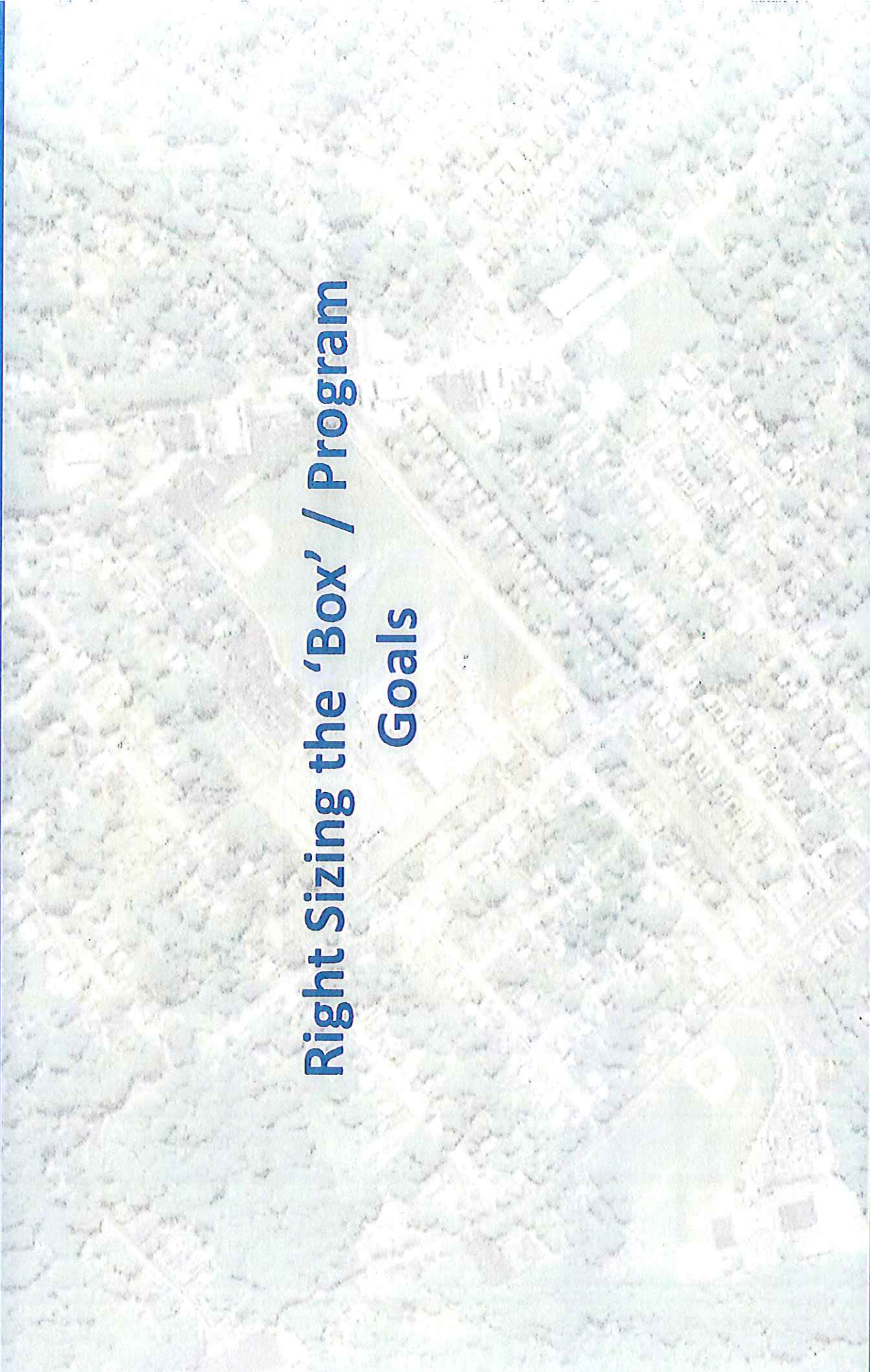
Onsite
College

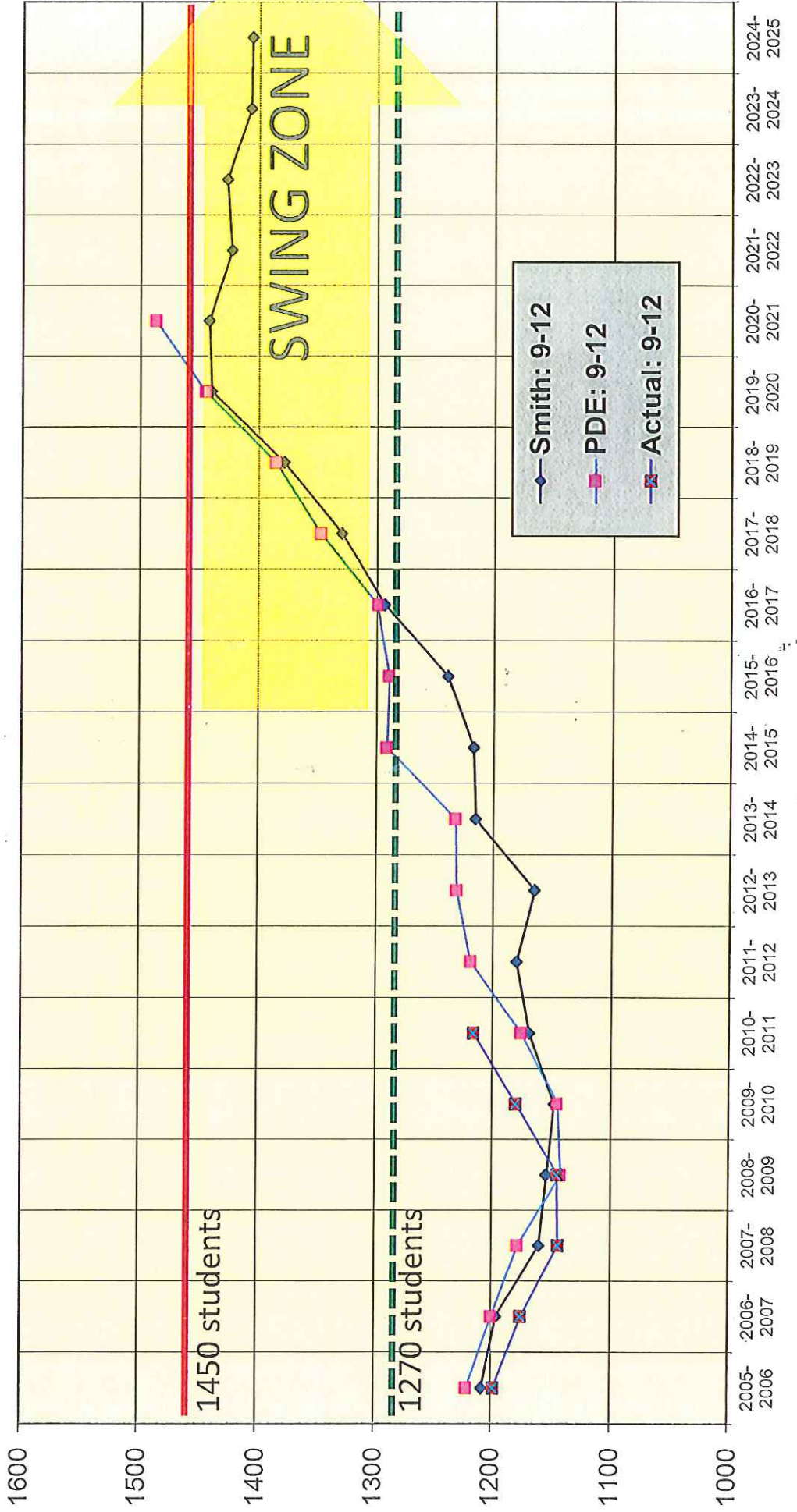
AND/OR



Year 4

Right Sizing the 'Box' / Program Goals





COMMITTEE CHARGE:

Assume maximum projection 1270 - expandable to 1450 students (implies 4400 total students)

Existing Building 303,100 sf

Physical Education 57,800 sf
Auditorium 39,600 sf
Media Center - 18,100 sf
Food - 22,100 sf
Academic Classrooms 115,600 sf
Admin - 15,900 sf
District - 34,000 sf

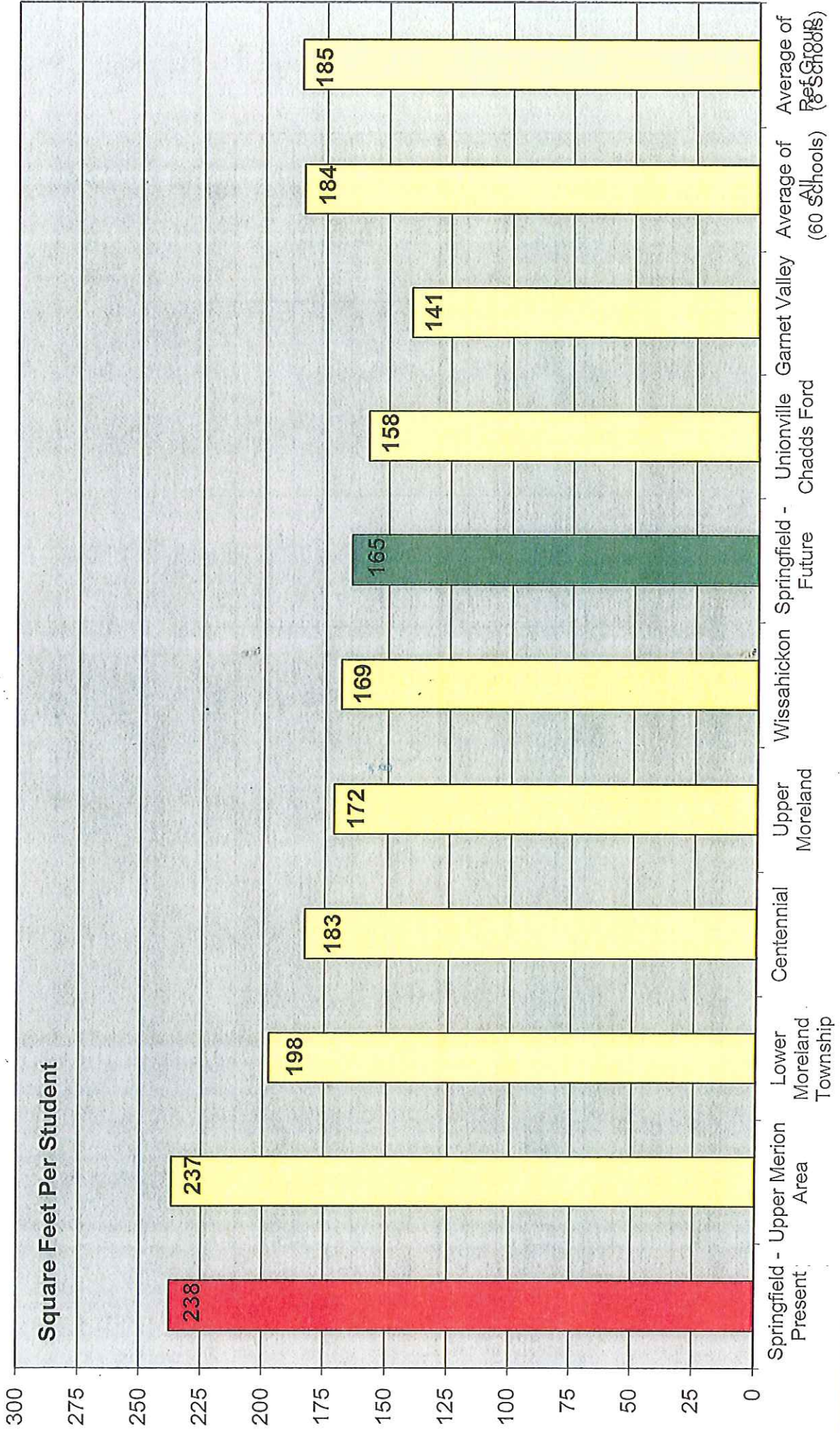
Proposed Program 206,400 sf

Physical Education 41,400 sf
Auditorium 28,400
Media Center - 8,300 sf
Food - 22,000 sf
Academic Classrooms 98,000 sf
Admin - 8,300 sf

Possible Expansion 29,400sf (Total Building Size 236,400sf)

PE - 11,600 sf
Academic - 16,300 sf
Admin - 1,500 sf

Proposed on June 26th, 2009

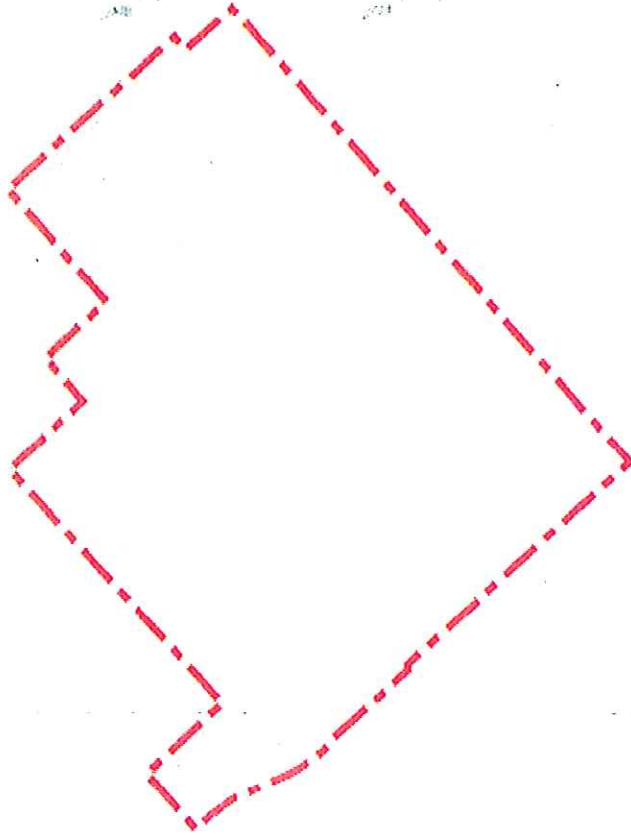


Analysis of area per student for schools in Delaware County

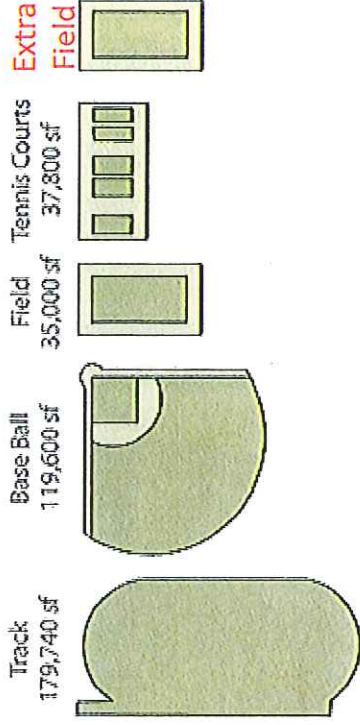
District	facilities supervisor	area of high school	Grade Levels	Current enrollment	Area Per student
Chester Upland	Kenneth Caulk				
Chichester	Jay Keever	224,000		1,296	172.84
Garnet Valley	Wade Brosius	267,422		1,529	174.90
Haverford Township	Robert Lester				
Interboro	George Wohlhufe	98,000		1,171	83.69
Marple Newtown	Junior Guglielmi				
Penn Delco	Brian Datte	176,161	9,12	1,178	149.54
Radnor Township	Leo Bernabei	280,890	8,12	1,352	207.76
Ridley	Harry (Bud) Crouse				
Rose Tree Media	Ron Baldino	257,000	10,12	1,312	195.88
Southeast Delco	Harry Young	188,000		1,100	170.91
Upper Darby	Joseph Hughes	481,217		3,712	129.64
Wallingford Swarthmore	Jim Hardy				
William Penn	Dana Pinckney				
Springfield		270,547		1,267	213.53

Based on district provided information and current enrollment

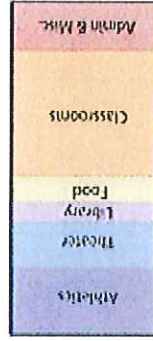
School Property
1,059,100 sf - 24 Acres



Athletic Fields



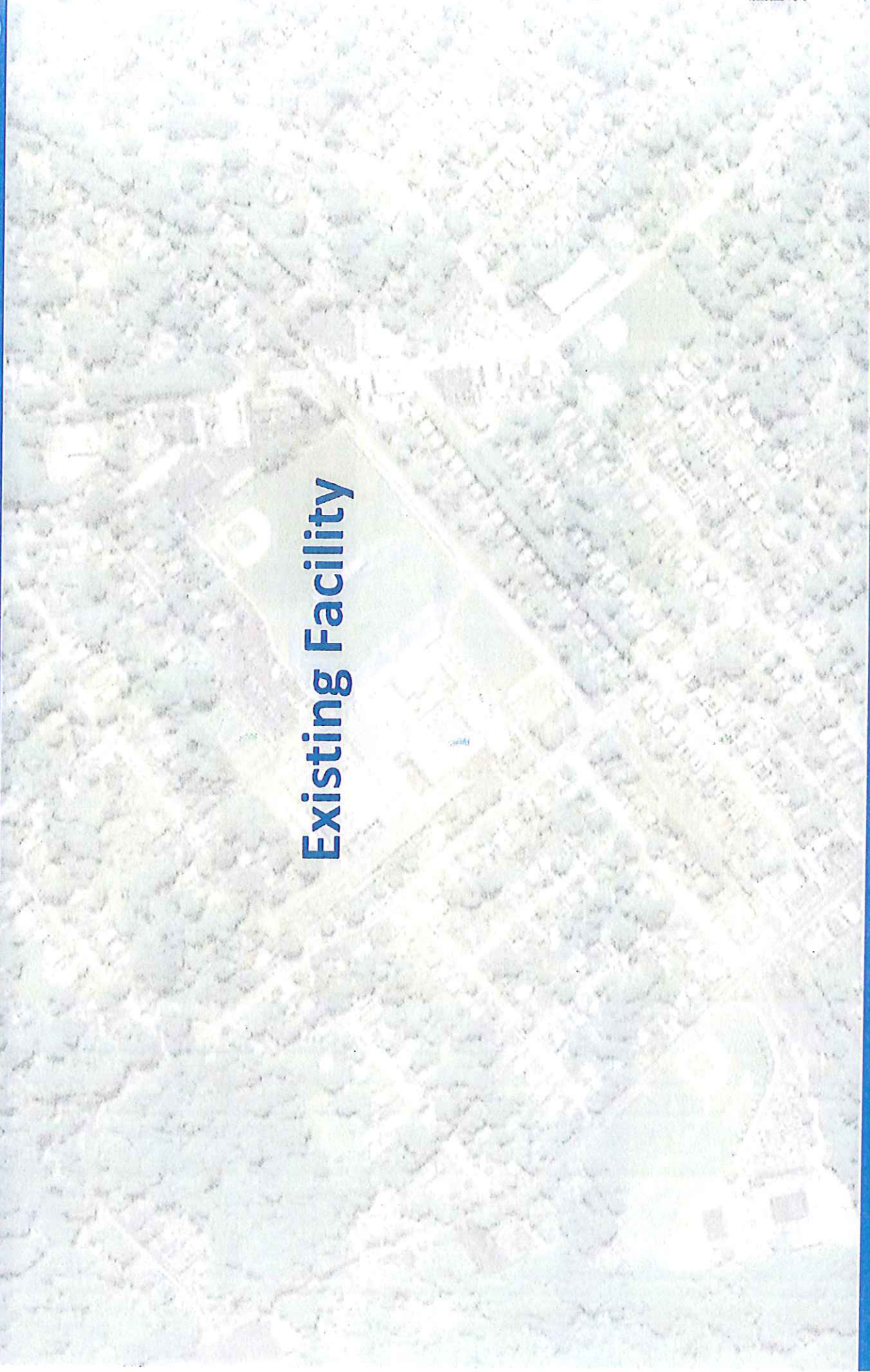
Building

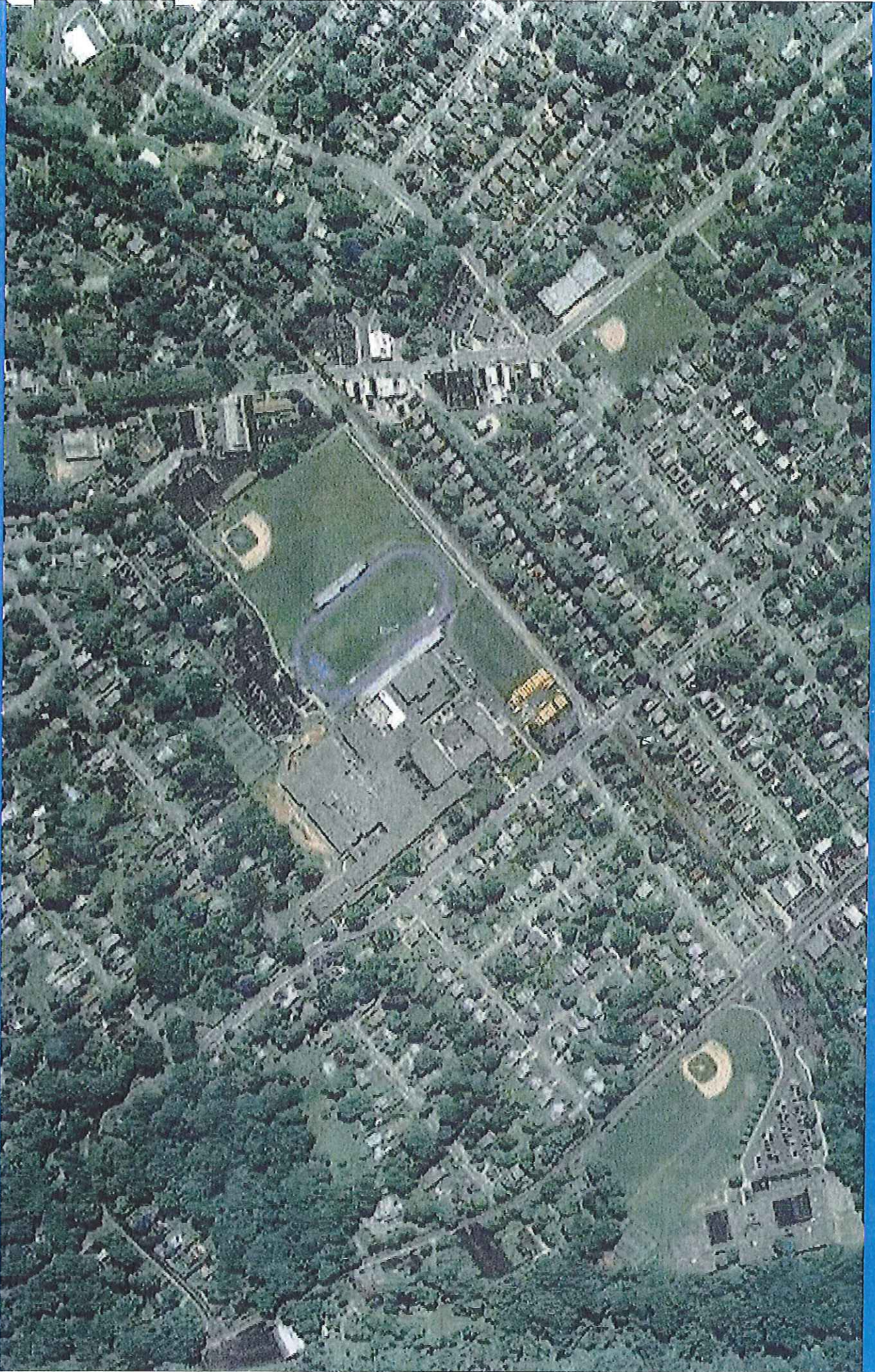


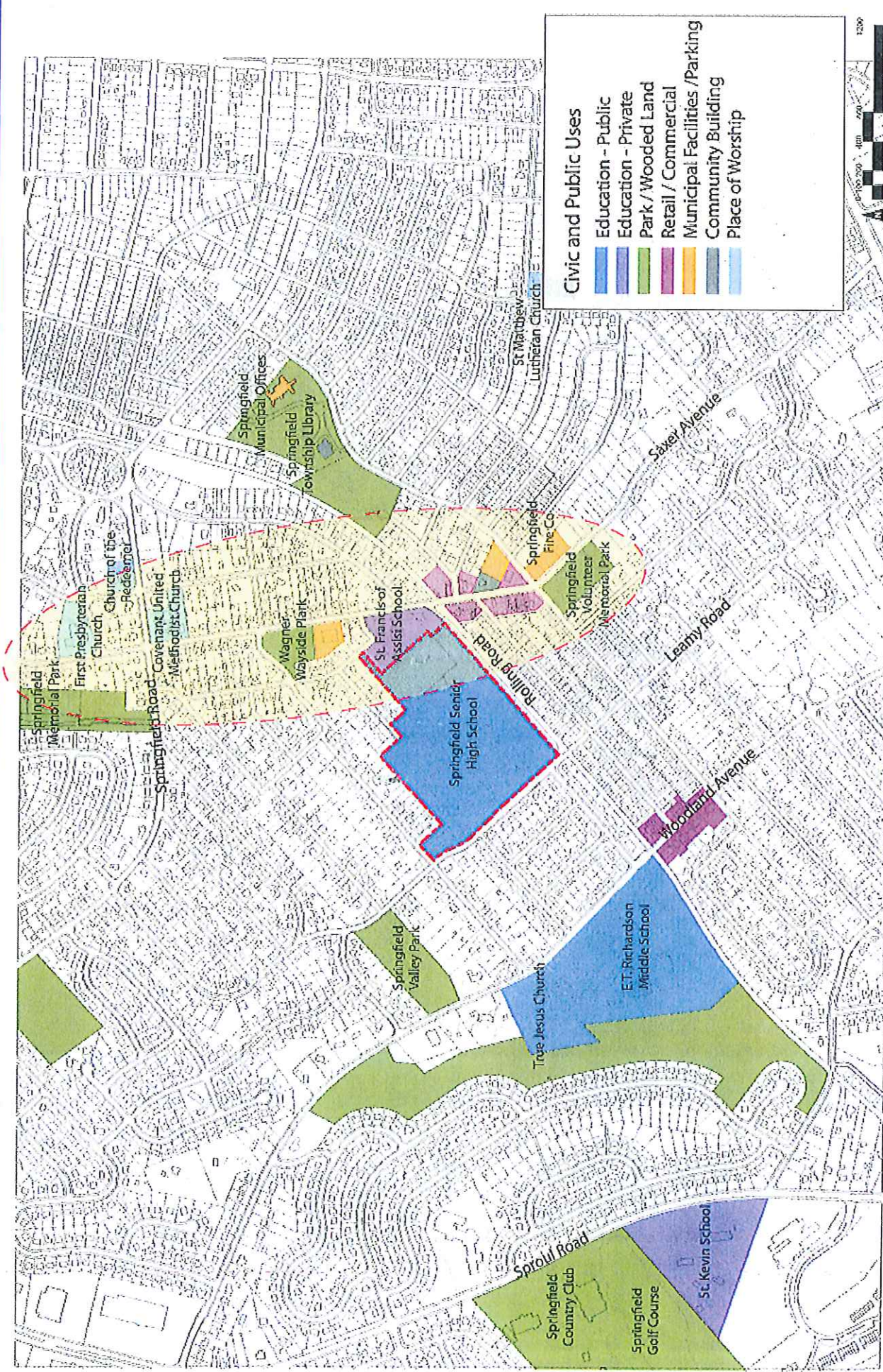
Parking

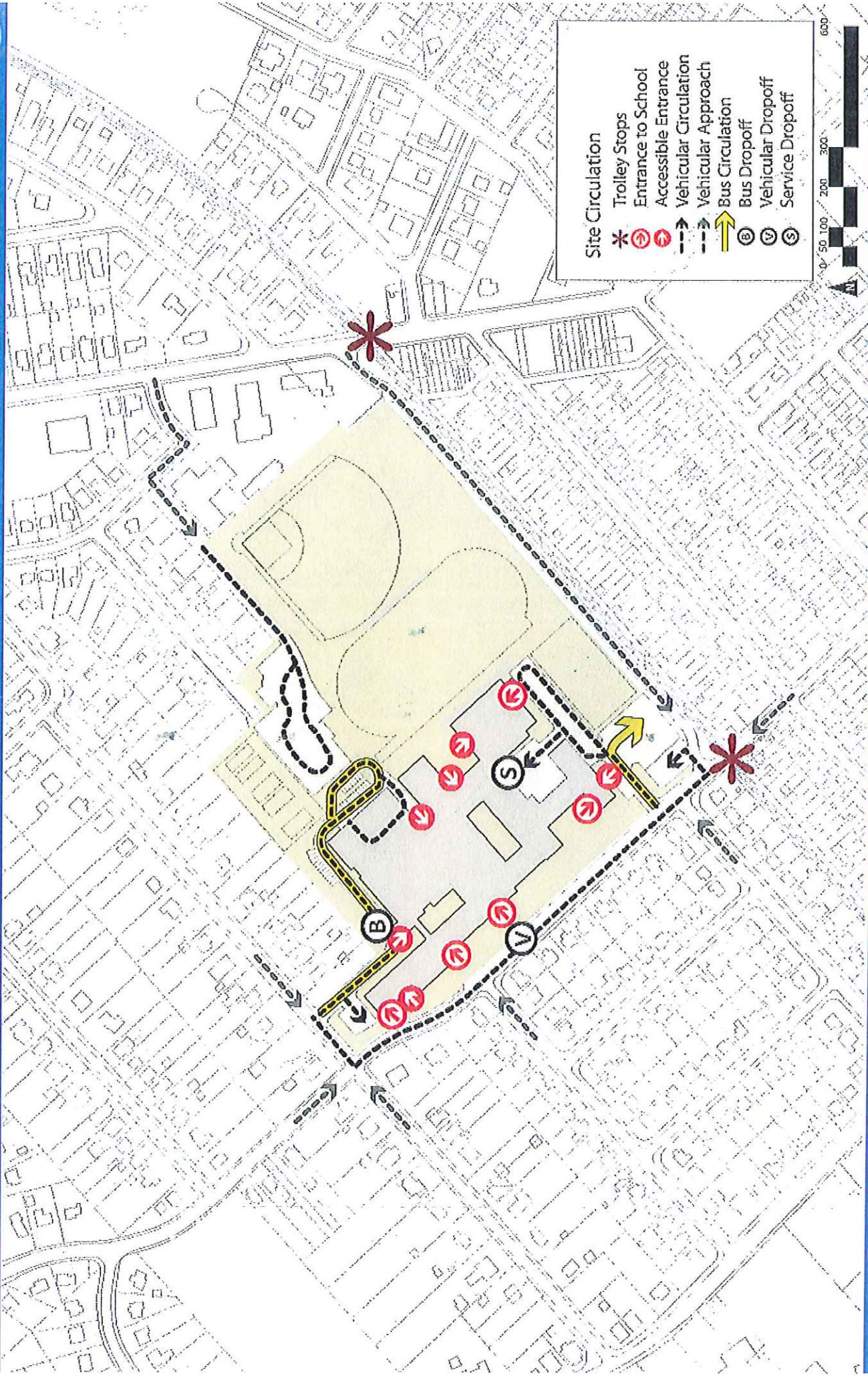


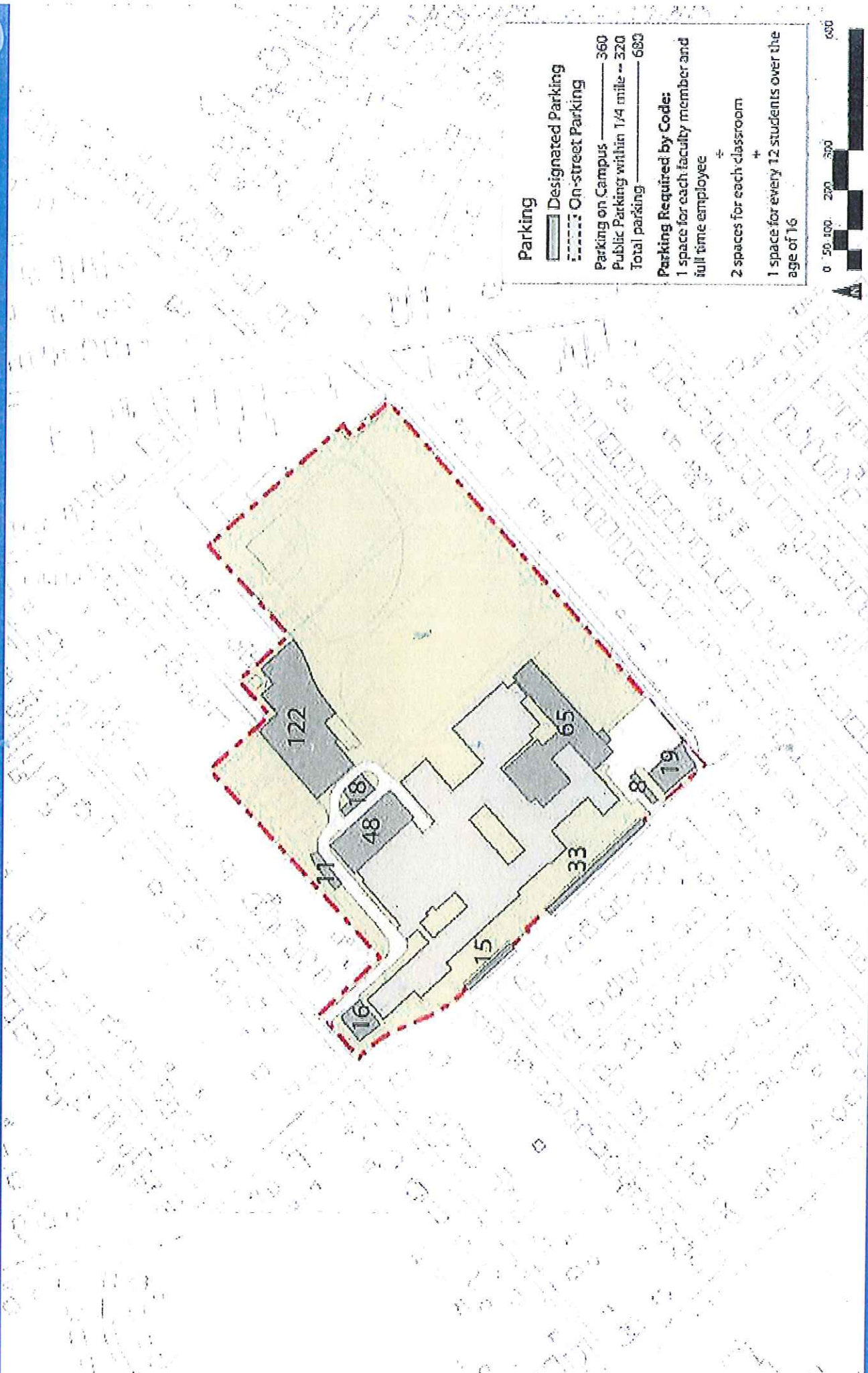
Existing Facility

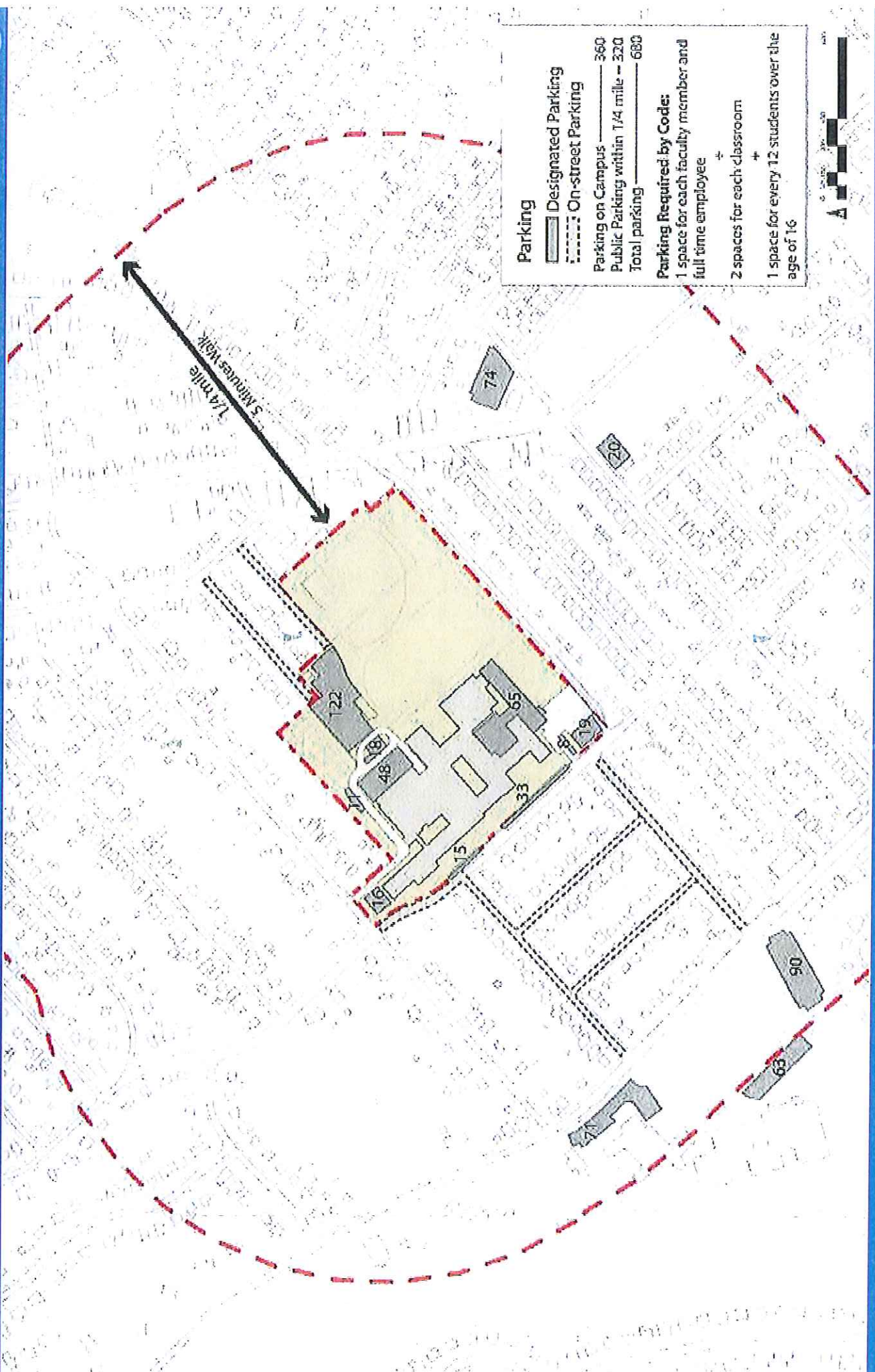


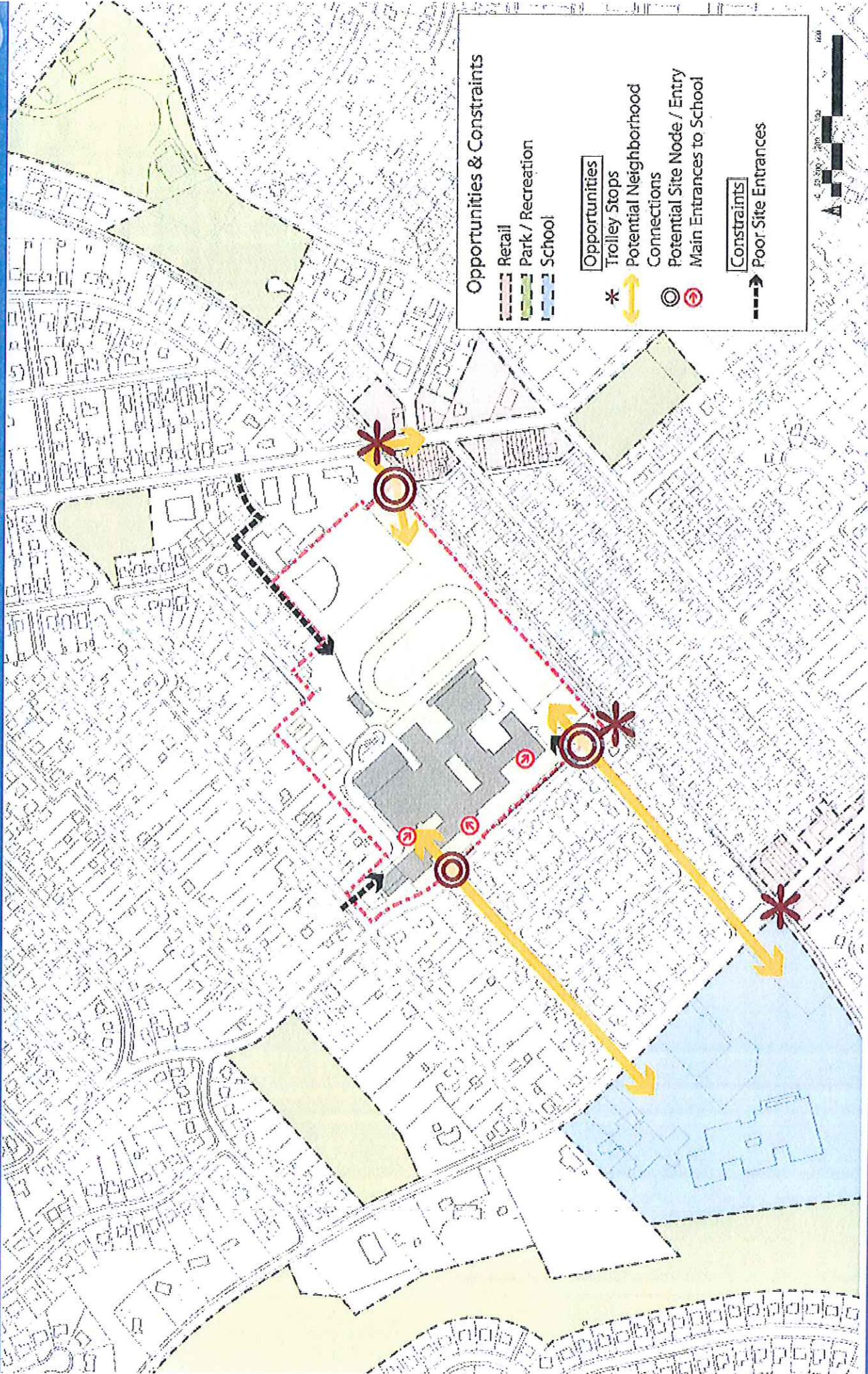


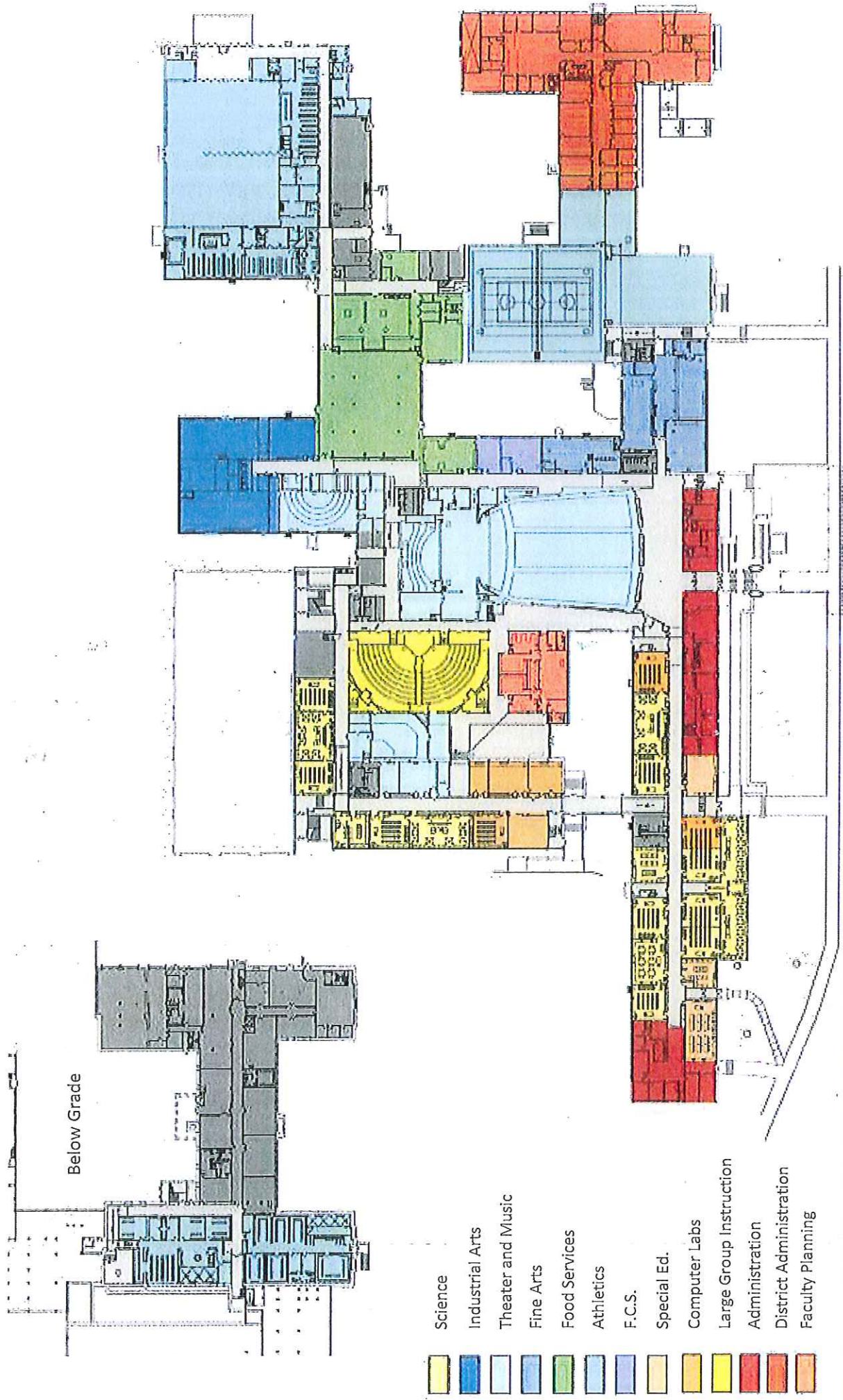


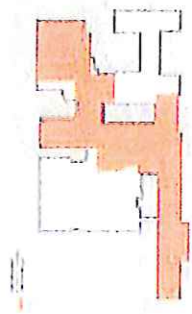




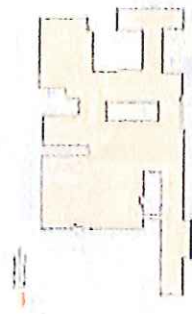




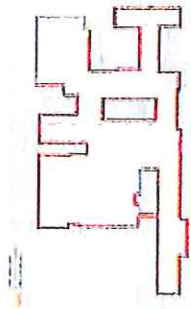




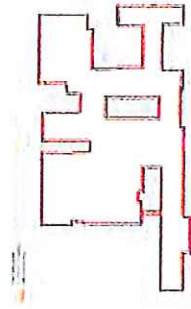
Asbestos



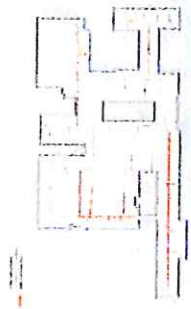
Roofing



Windows



Envelope



HVAC



Plumbing



Electric

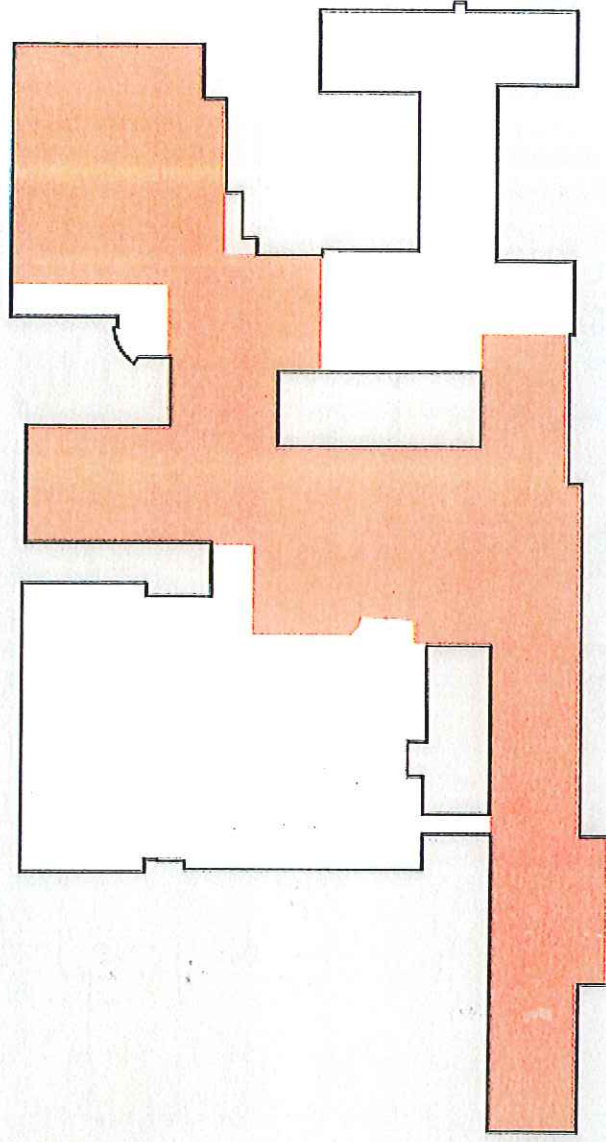
Code



100

101

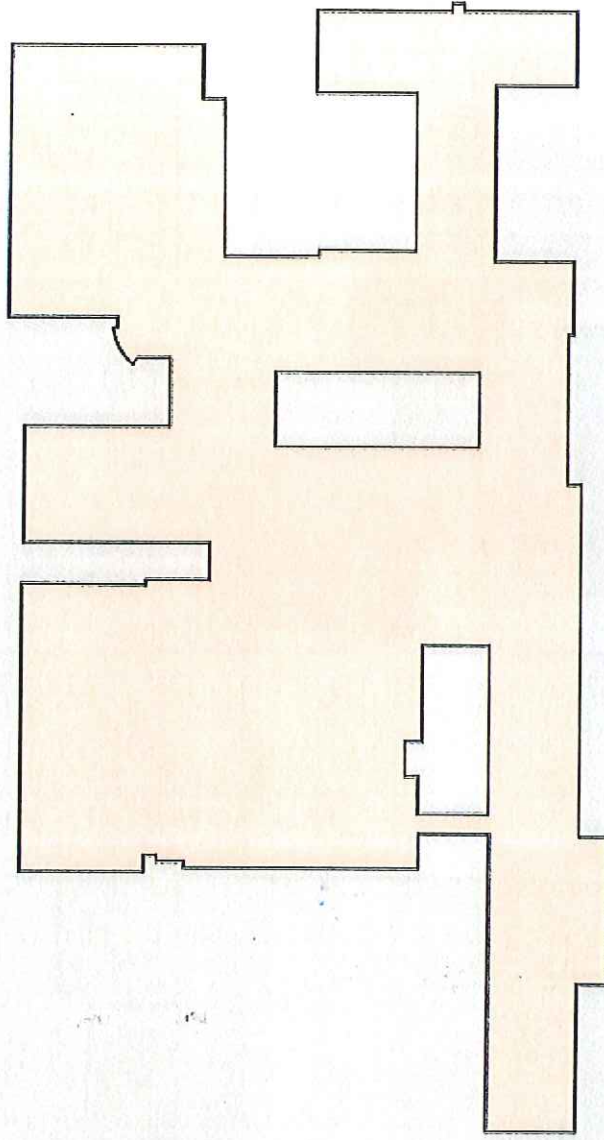
Minor challenge
Moderate challenge
Difficult challenge



Composite of All Floors



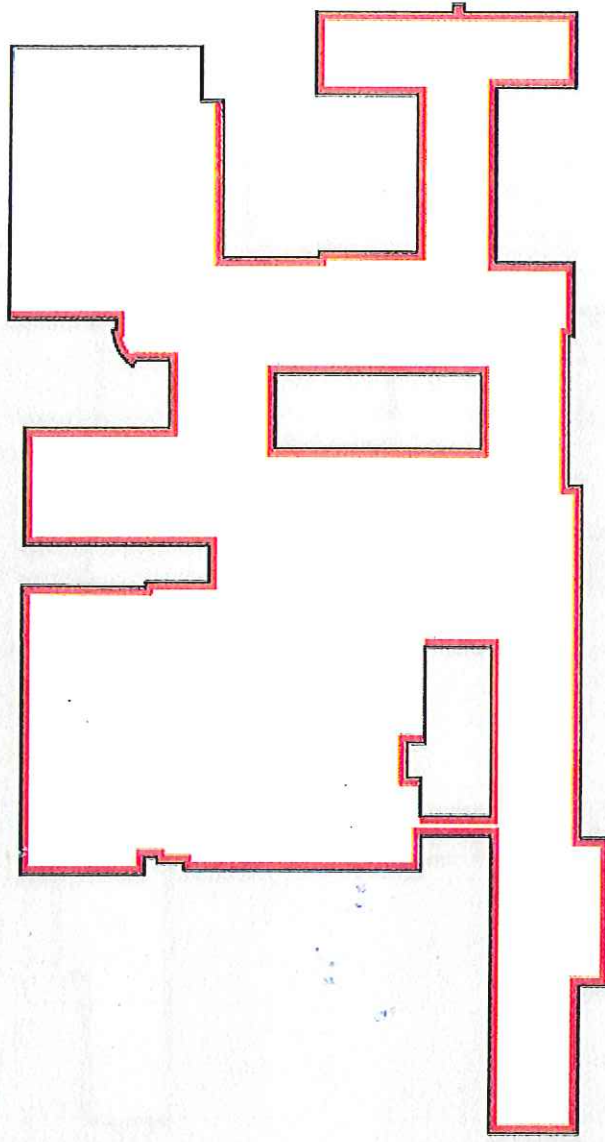
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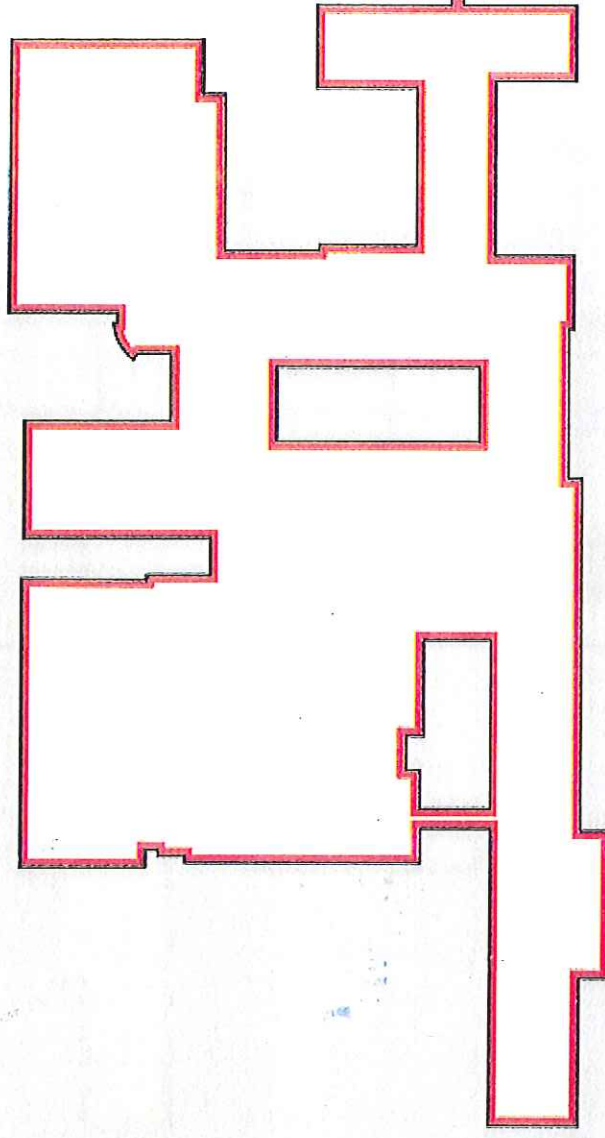
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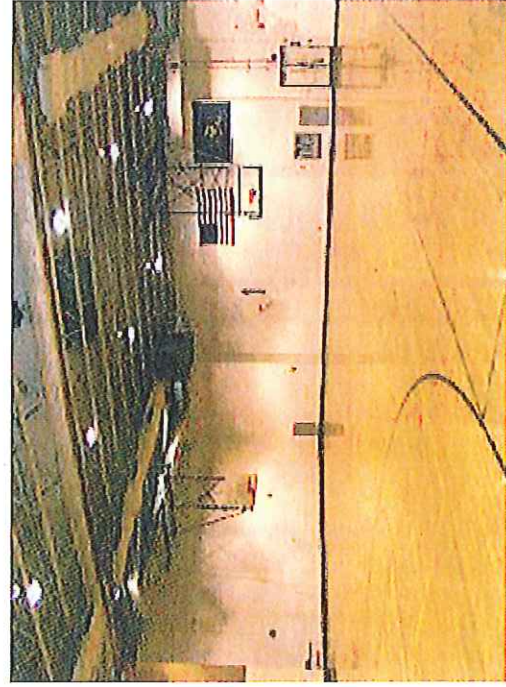


Minor challenge
Moderate challenge
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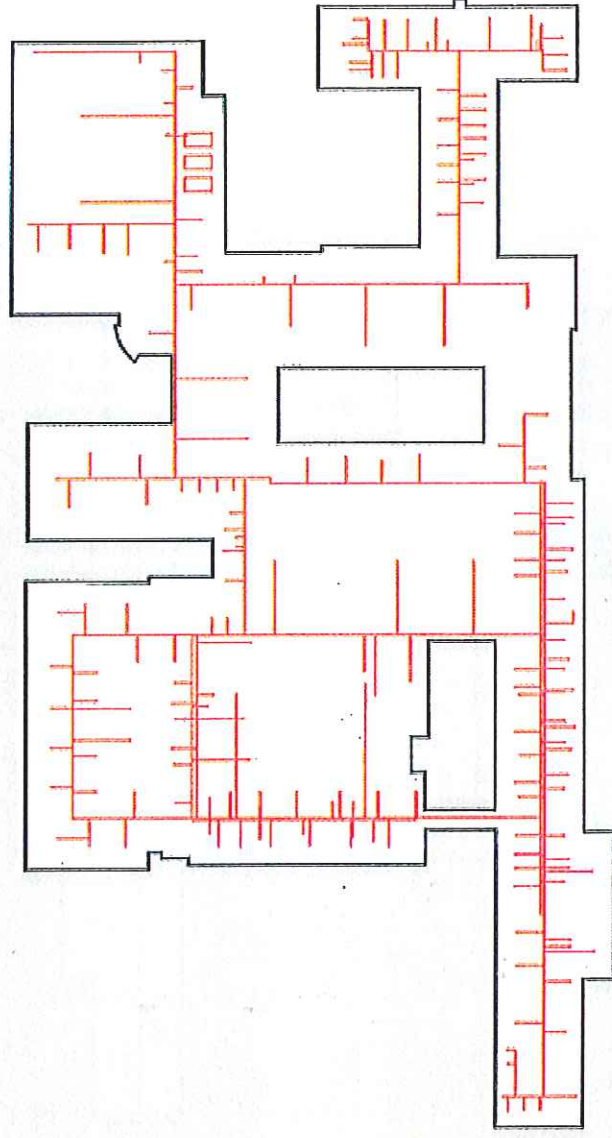


Composite of All Floors

“The only thing worth saving are the tools.”



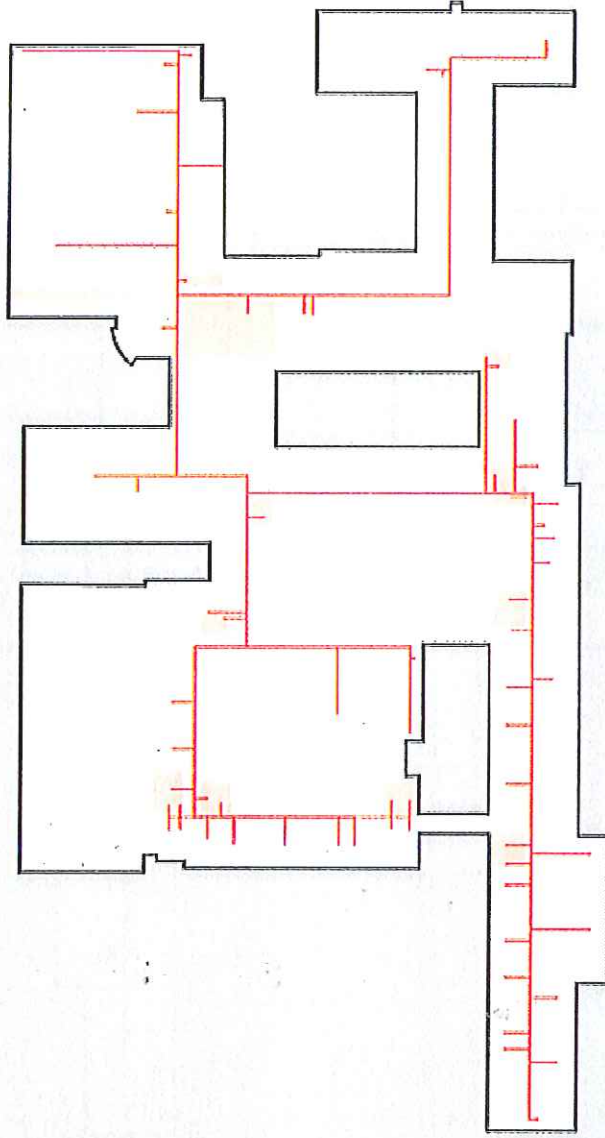
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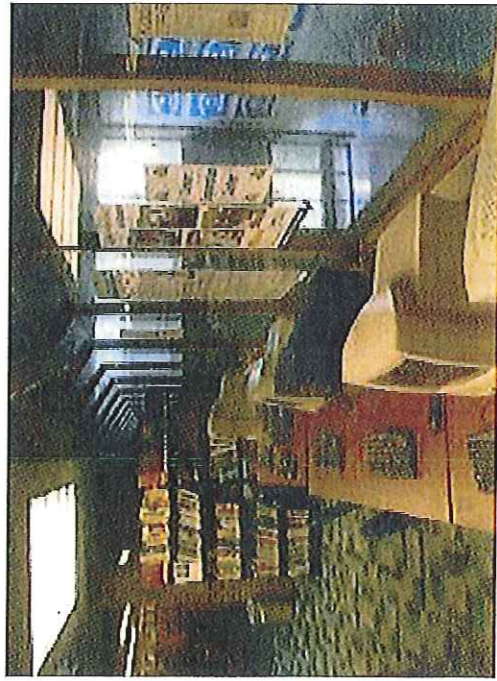
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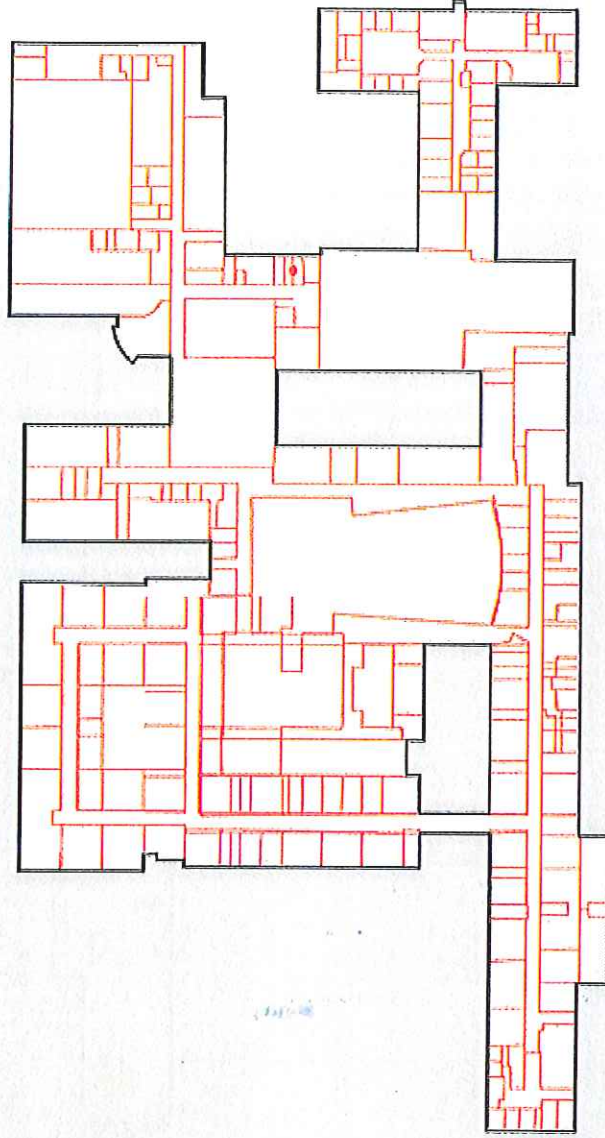
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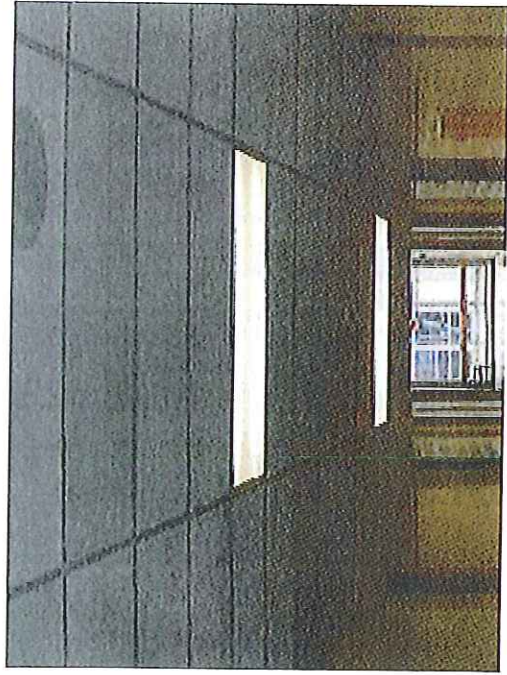
Composite of All Floors



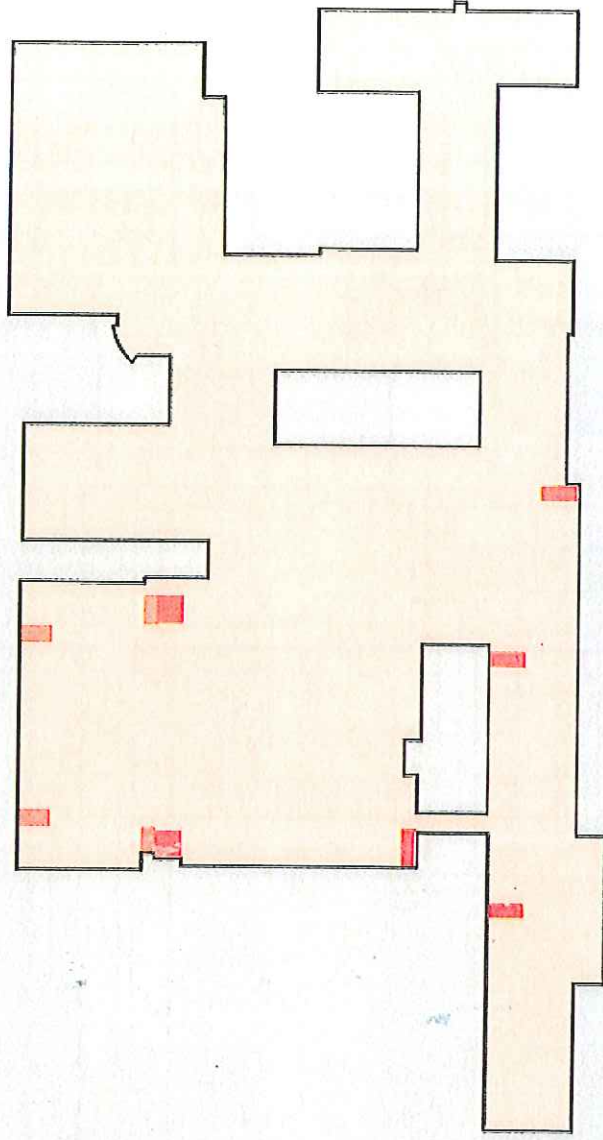
Minor challenge
Moderate challenge
Difficult challenge



Composite of All Floors



Minor challenge
Moderate challenge
Difficult challenge

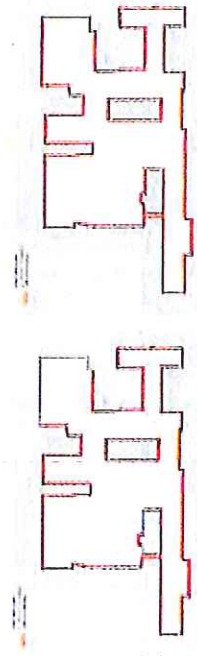


Composite of All Floors



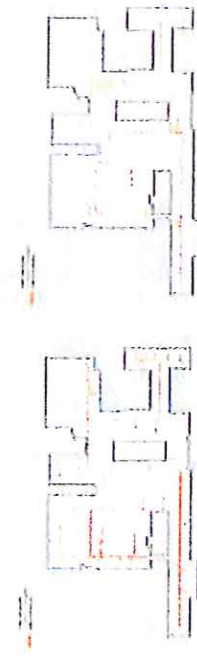
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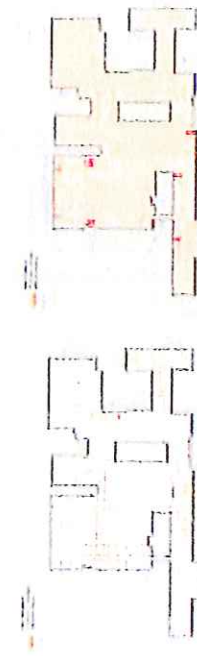
Windows

Envelope



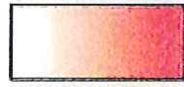
HVAC

Plumbing



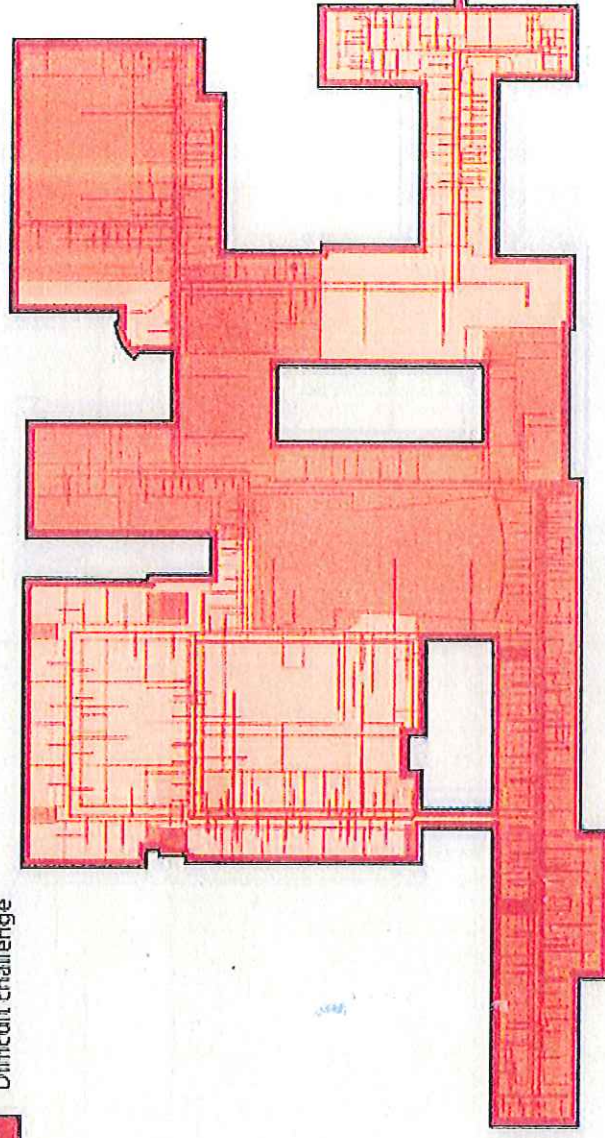
Electric

Code

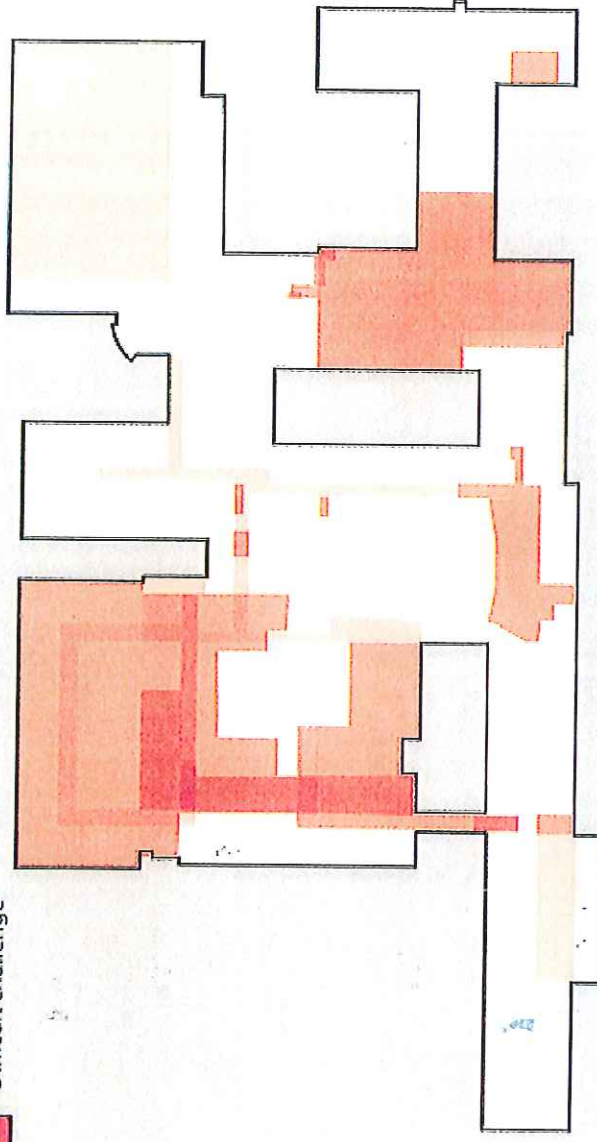
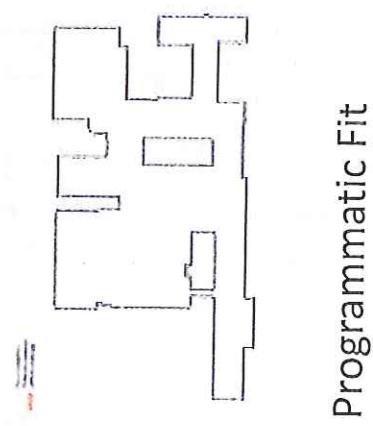
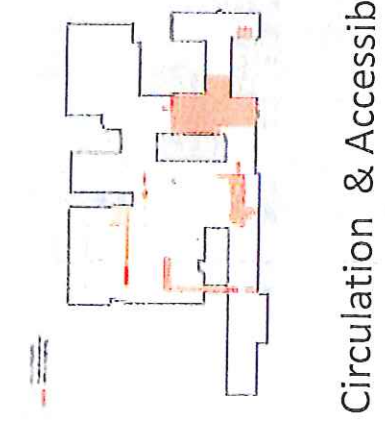
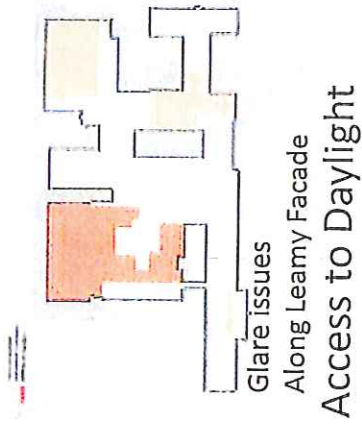


Minor challenge

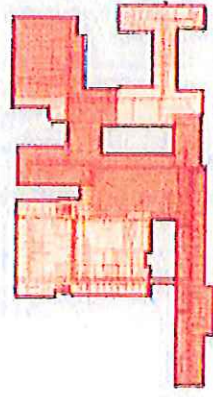
Difficult challenge



Composite of Issues



Composite of Issues



Renovation Challenges

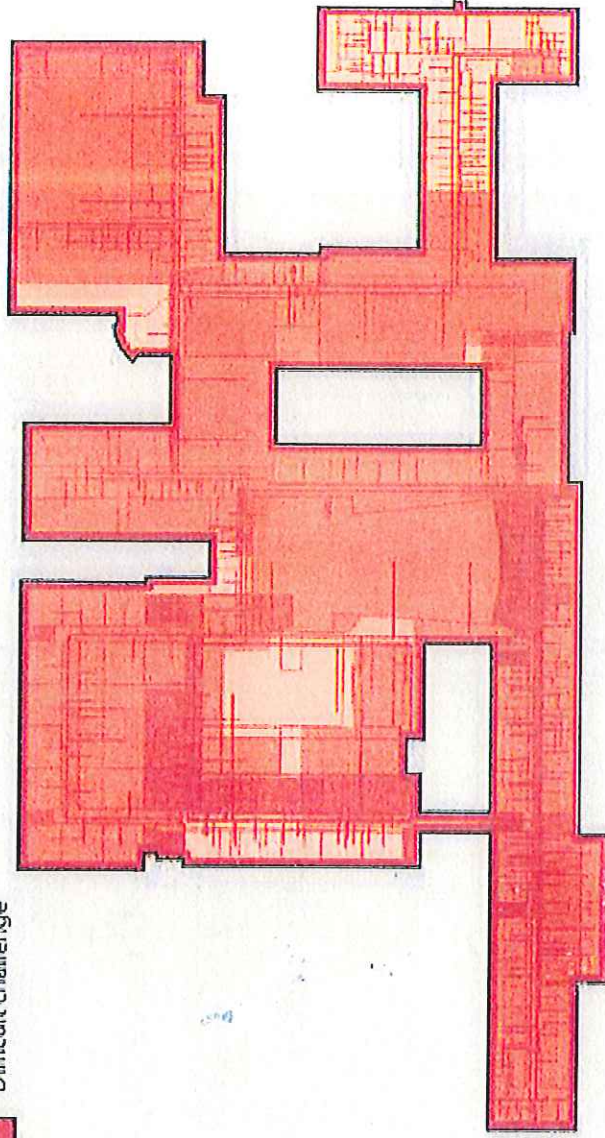


Building Performance



Minor challenge

Difficult challenge



Composite of Issues

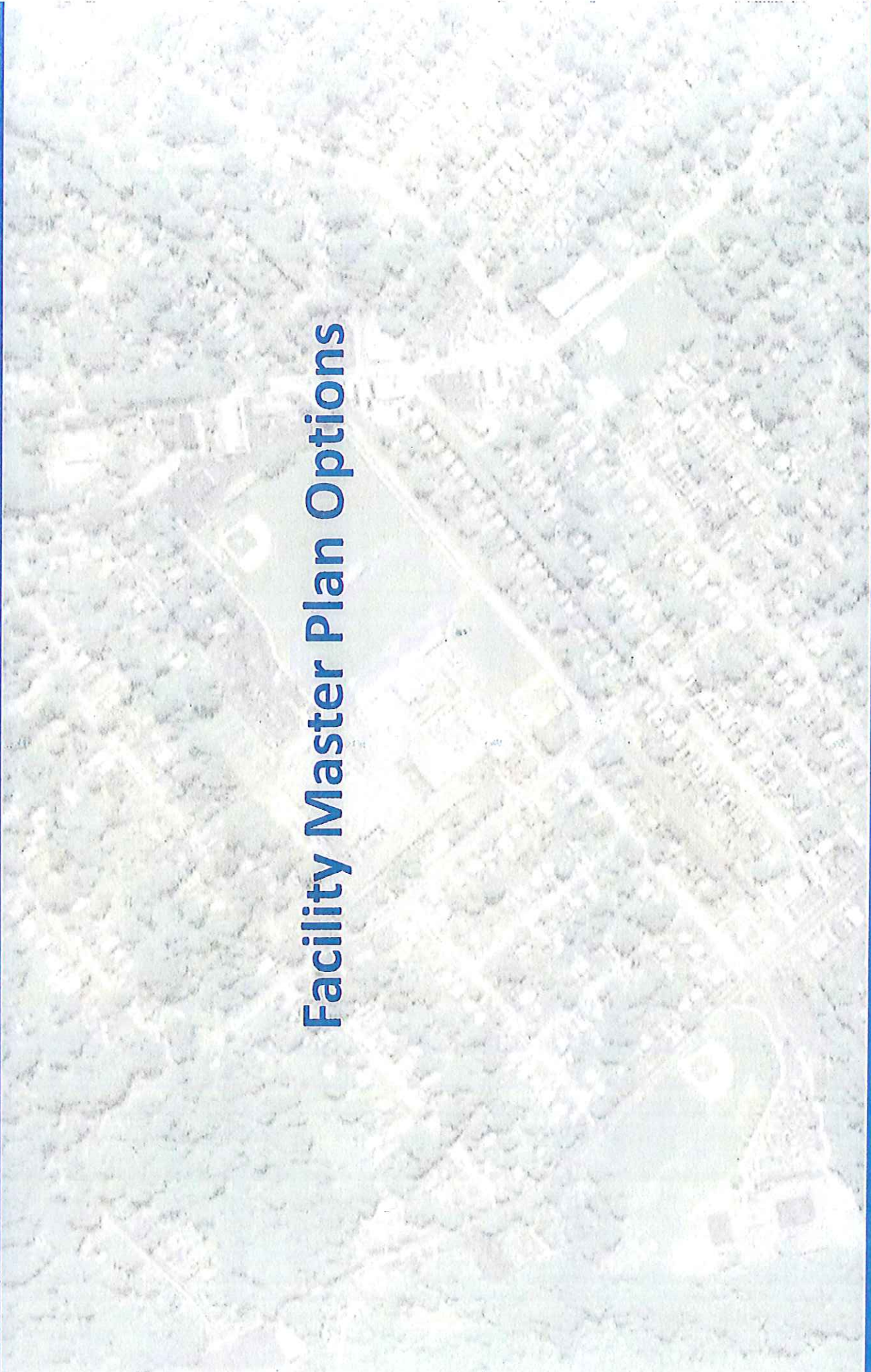
Guiding Principles

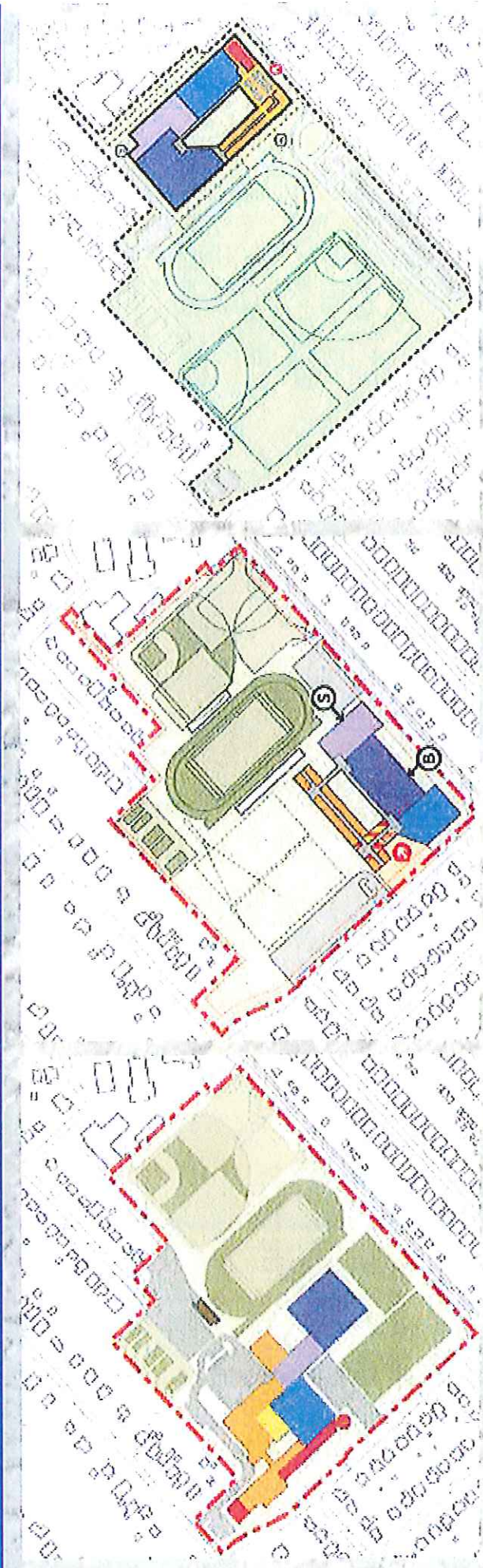
- Create the **optimal learning environment** for education
- Strengthen **connections** to the broader community
- Promote the use of the School as a place for the community :
Town Center
- Create a **sustainable School** that deploys the best in high performance building design to reduce energy consumption and promote classroom achievement.

Site/Campus Goals

- Improve **circulation** and connections to school.
- Add **athletic fields** and improve their quality.
- Increase **parking capacity** of campus without impacting goals for athletic program.
- **Minimize vehicular circulation** within the campus.
- Promote **walking** and public transit.
- Increase amount of community **green space**.

Facility Master Plan Options





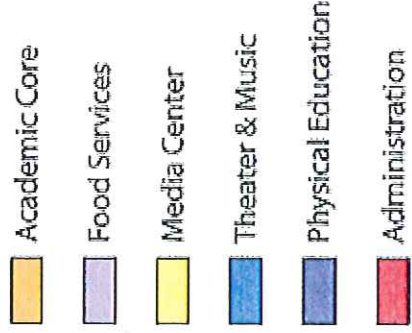
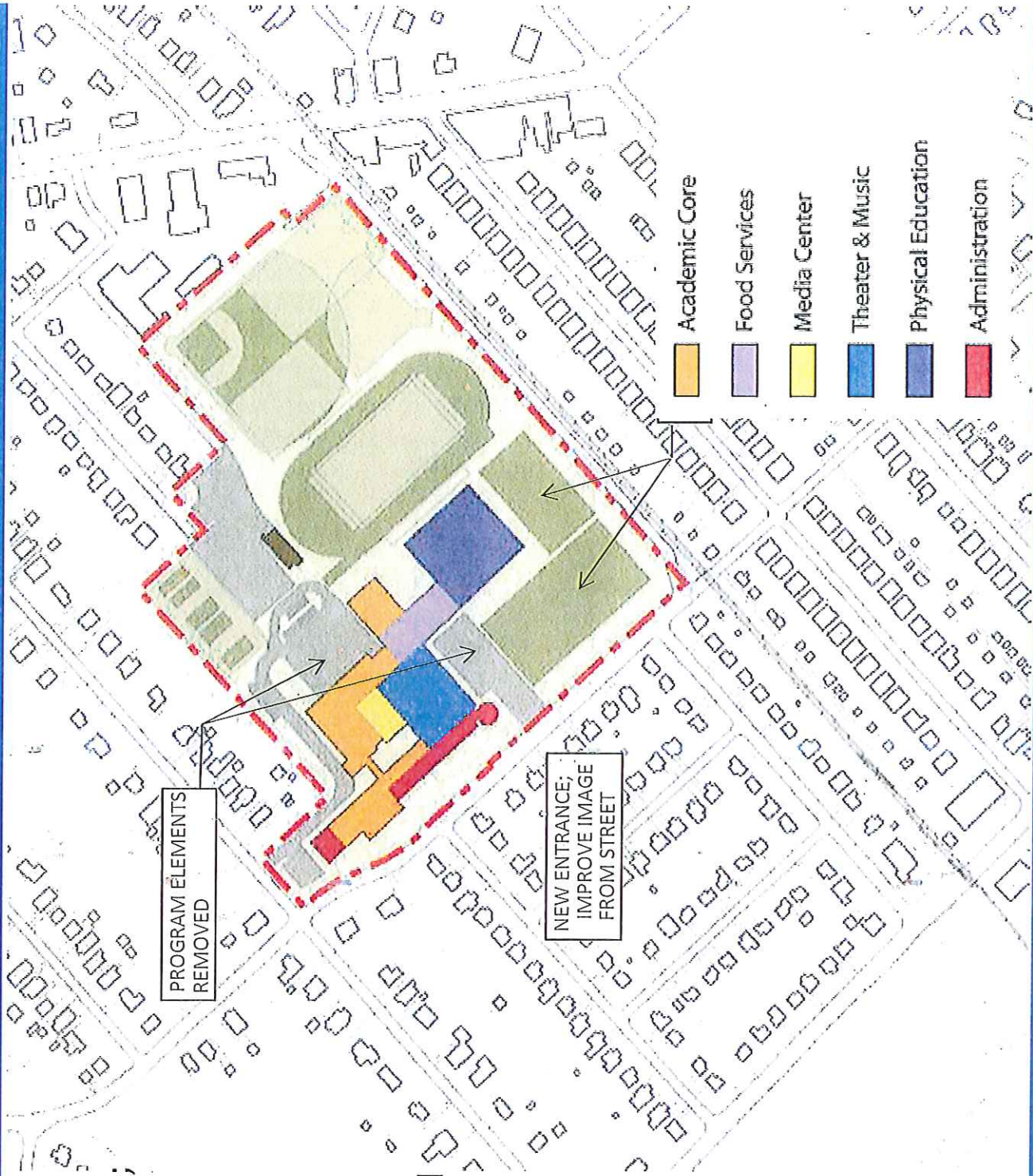
Three Options Compared

Detailed Review for Phasing / Cost

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

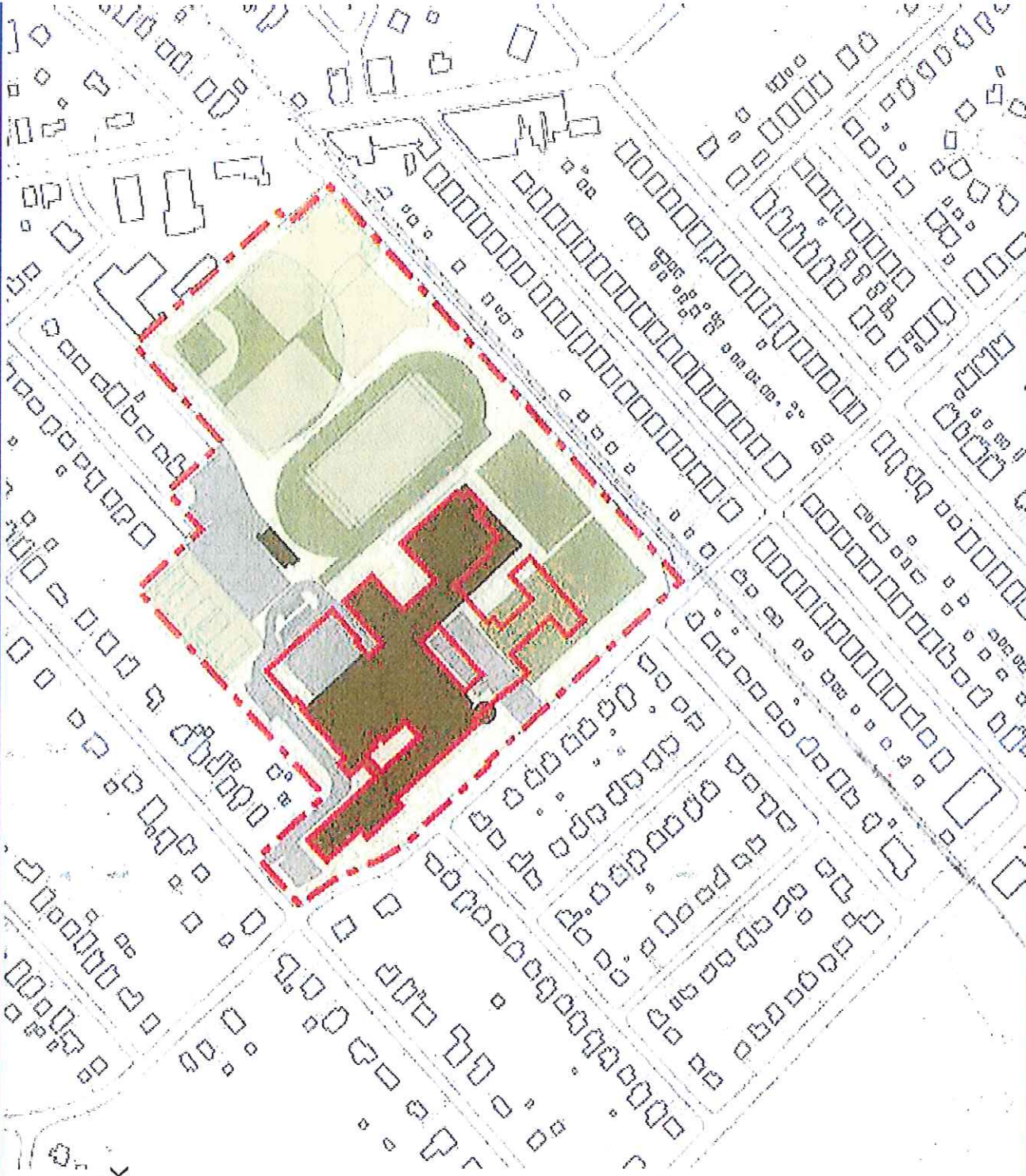
KEY SCOPE ITEMS

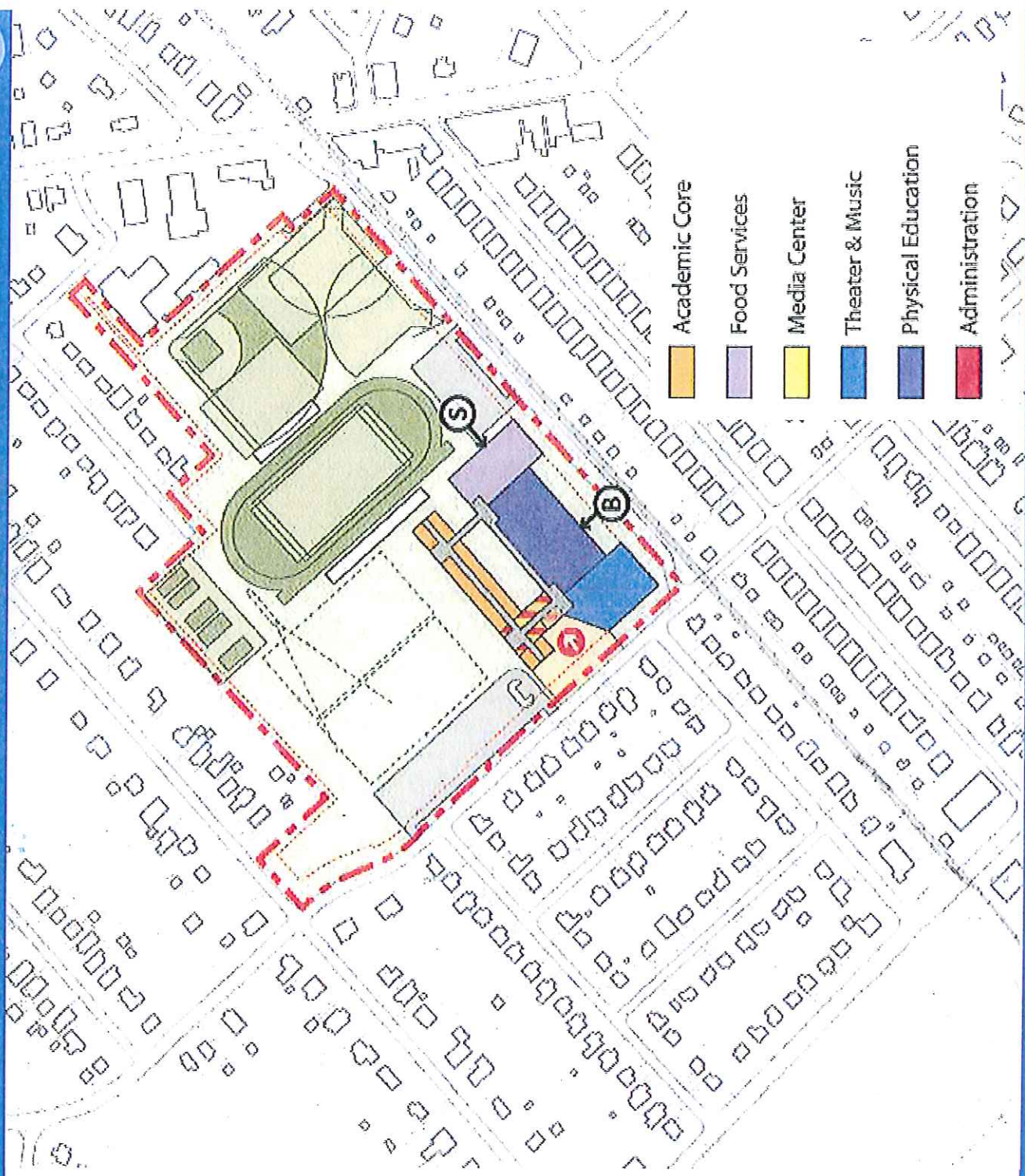
- Reduction of building size; consolidation of program components.
- Relocation of District Office and Bus Parking
- Building Performance and design upgrades :
 - Hazmat removal
 - Life-safety
 - Energy performance
 - Building Systems
 - Accessibility
- Building Design / Identity



PHASING CHALLENGES

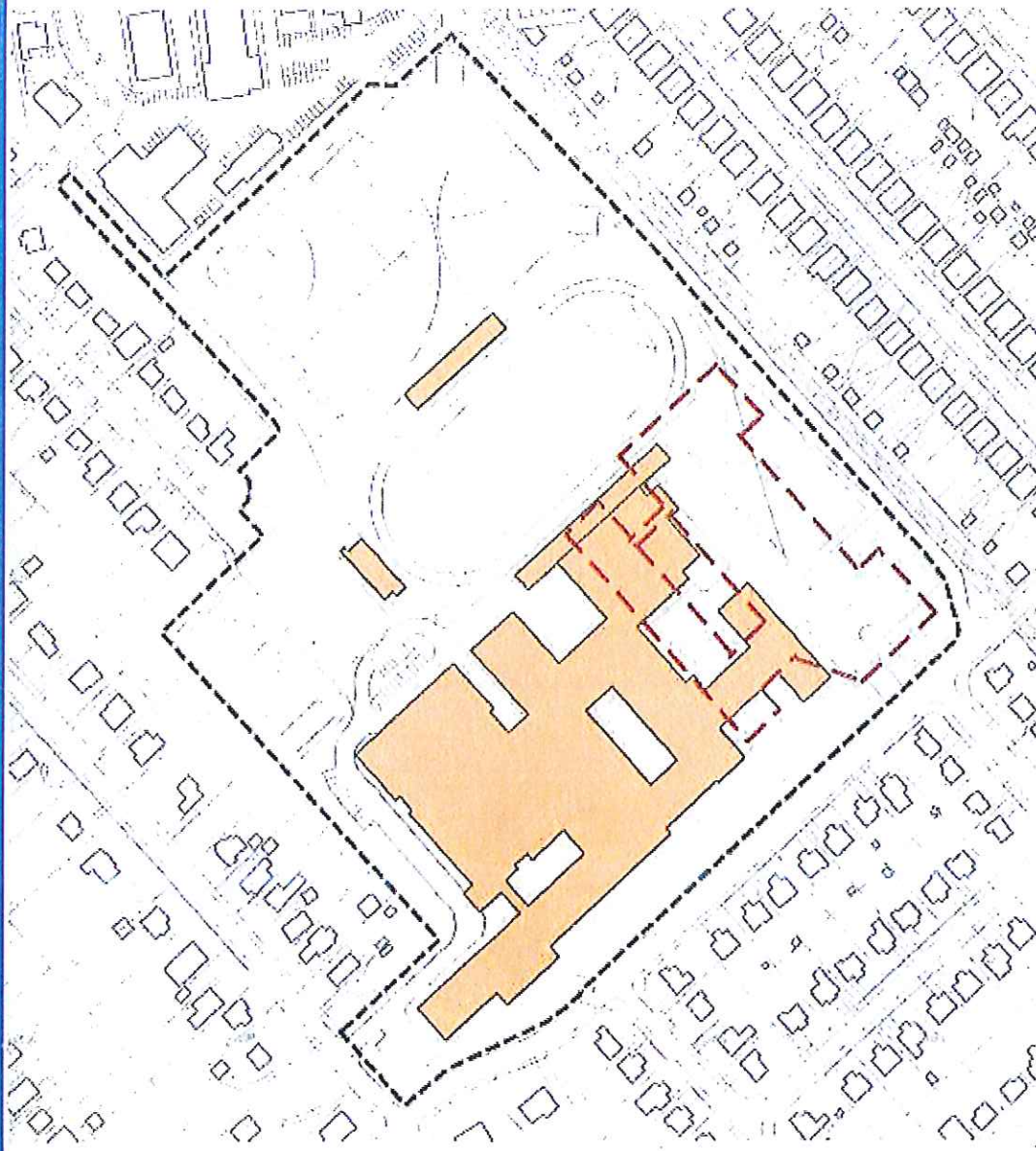
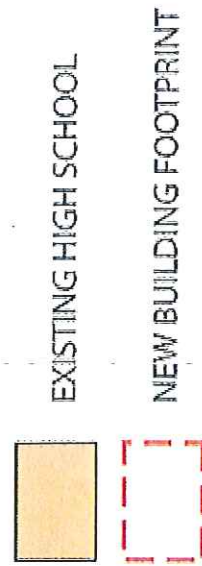
- Remediation of Roof Deck and building envelope: exposure to elements.
- Building Systems: service interruptions
- Significant Building Renovation scope:
 - Cannot to be completed within Summer periods
- Construction Phasing Schedule long and complex

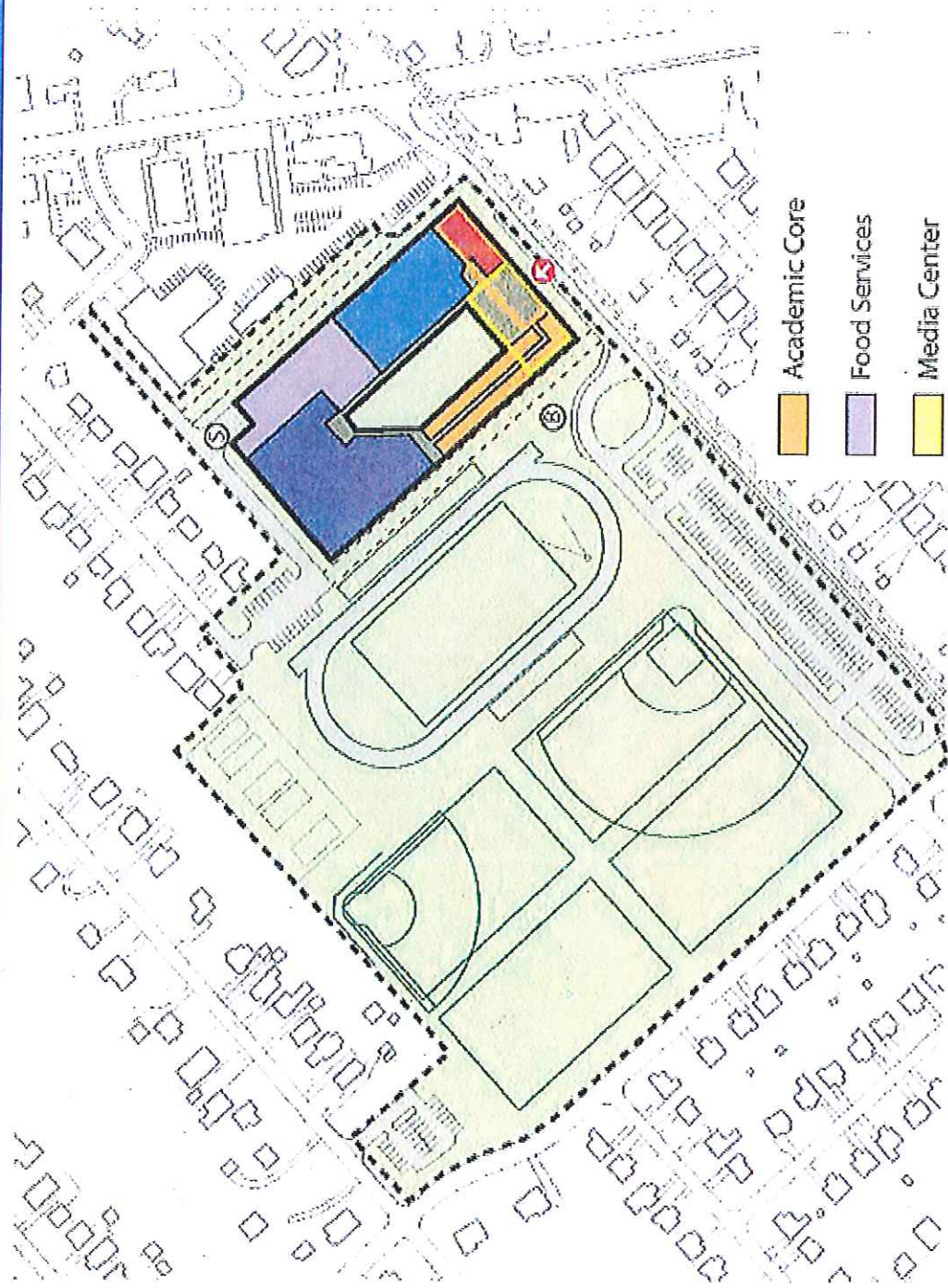




PHASING CHALLENGES

- Building Systems : service interruptions (location of existing plant and utilities)
- Significant Overlap of Existing Building with Proposed Building:
 - Complex Construction Phasing

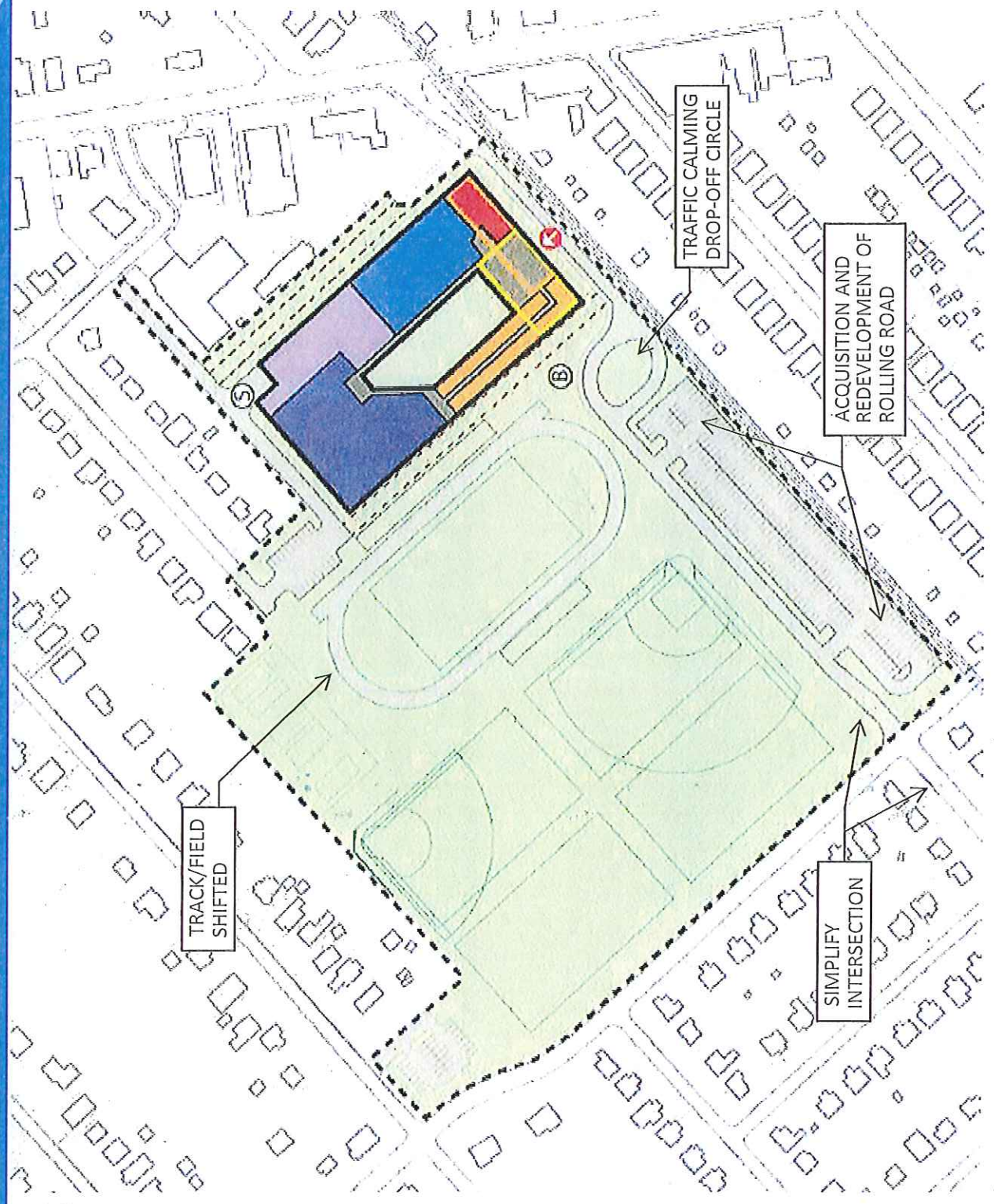




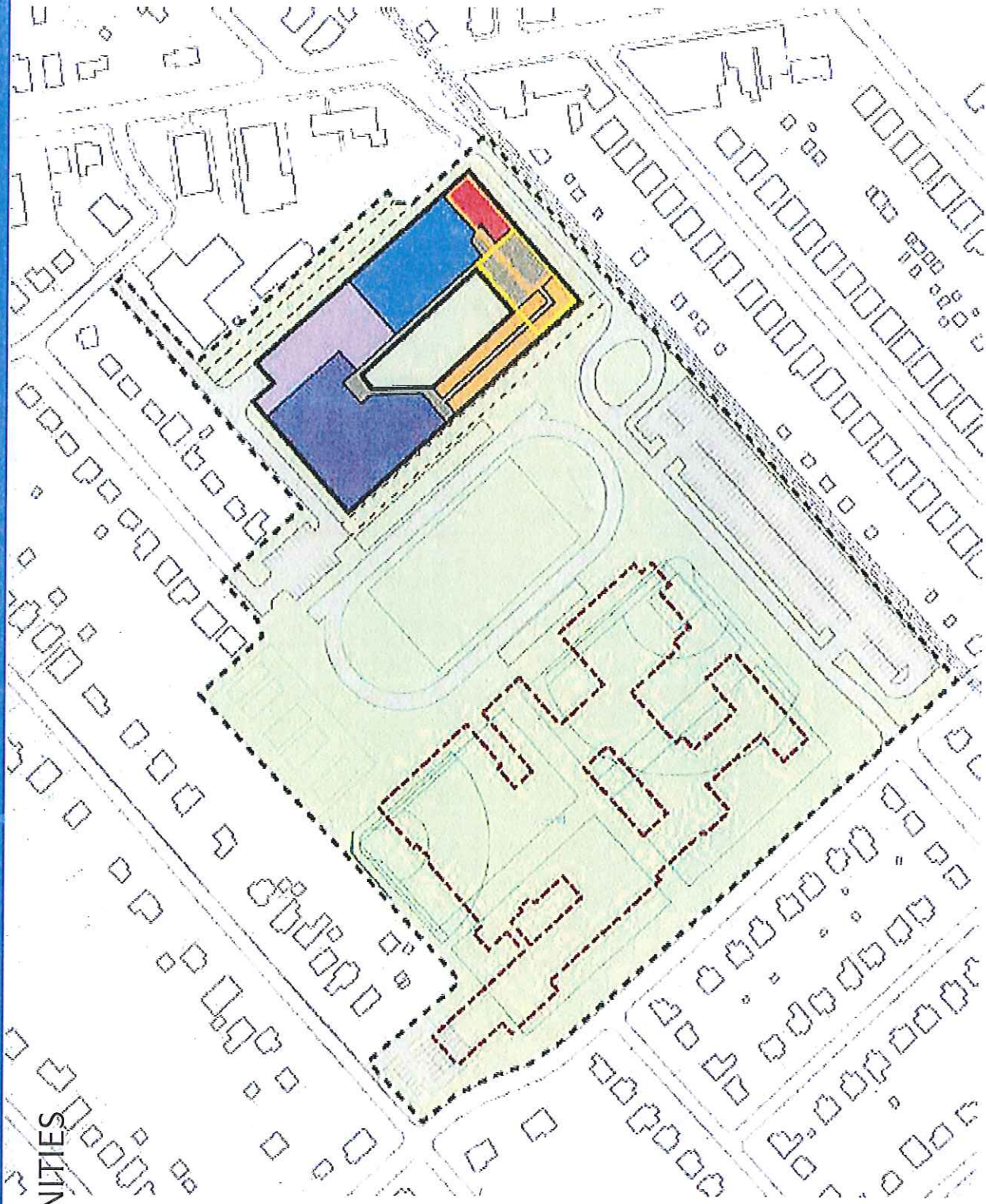
- Academic Core
- Food Services
- Media Center
- Theater & Music
- Physical Education
- Administration



SAXER AVENUE SITE



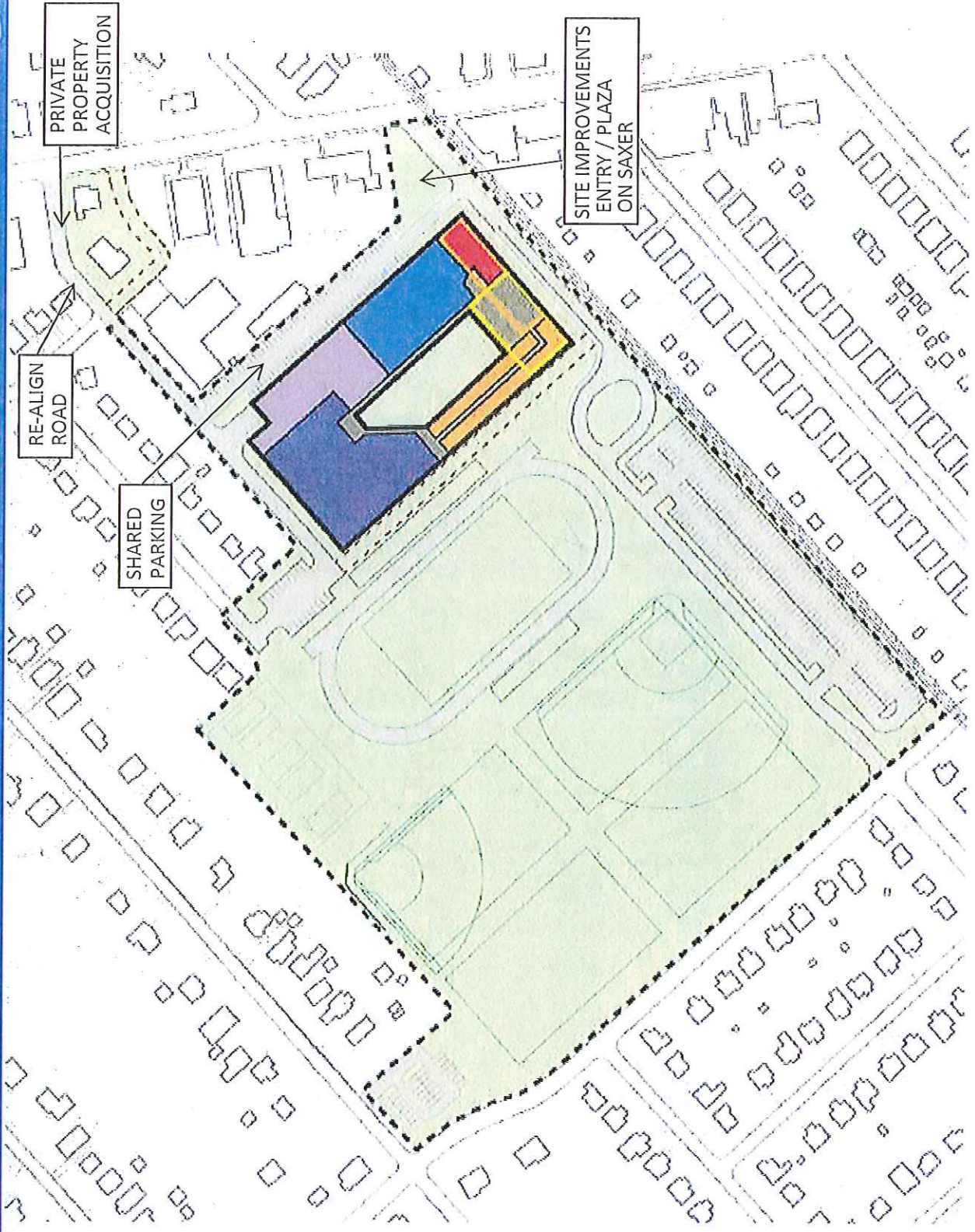
Saxer Avenue Site



PHASING OPPORTUNITIES

- New School can be developed while Existing School remains fully operational
- Track and Field can be relocated prior to any other work; only rear parking would be displaced
- Geothermal Wellfield: under track or parking

SAXER AVENUE SITE



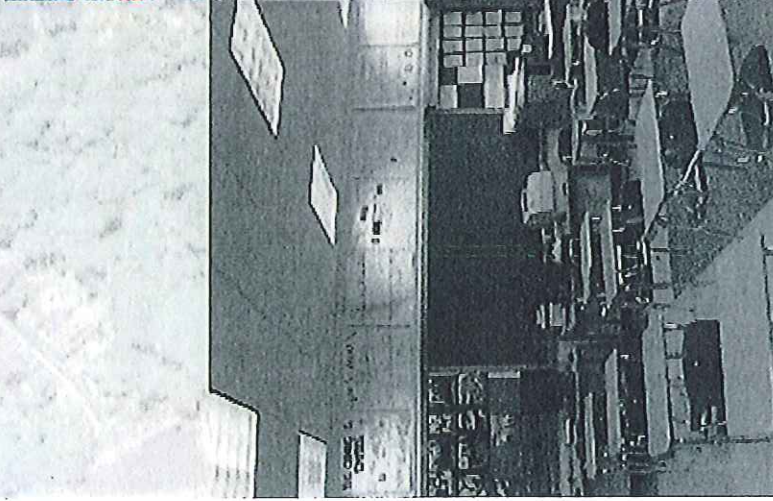
Renovation vs. New Construction

Maintain / Upgrade Existing vs. New Educational Opportunities



Renovation vs. New Construction

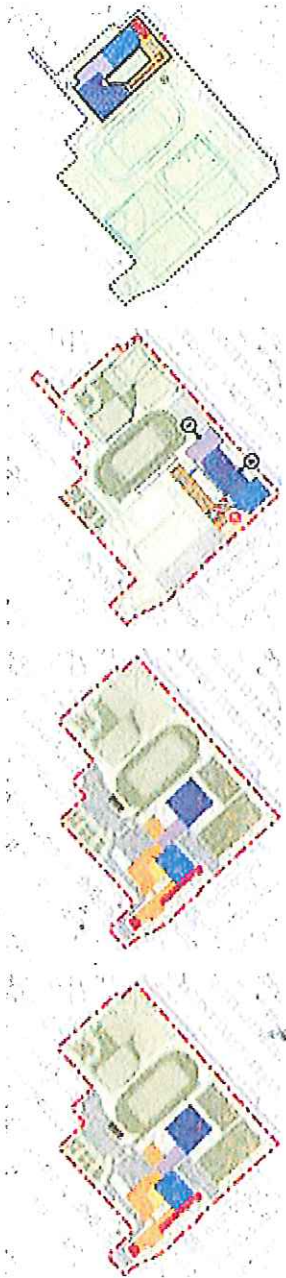
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Renovation vs. New Construction

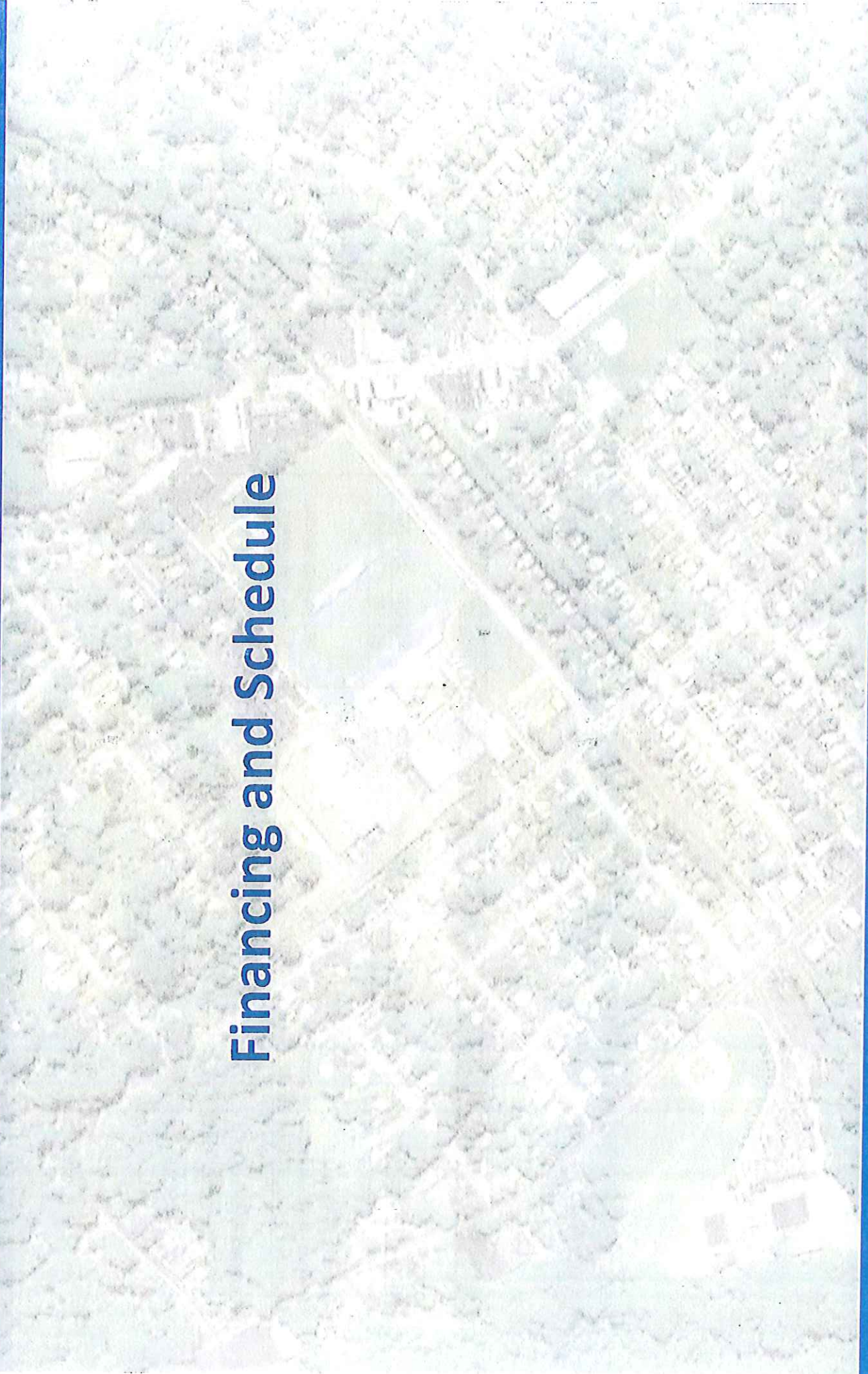
Maintain / Upgrade Existing vs. New Educational Opportunities

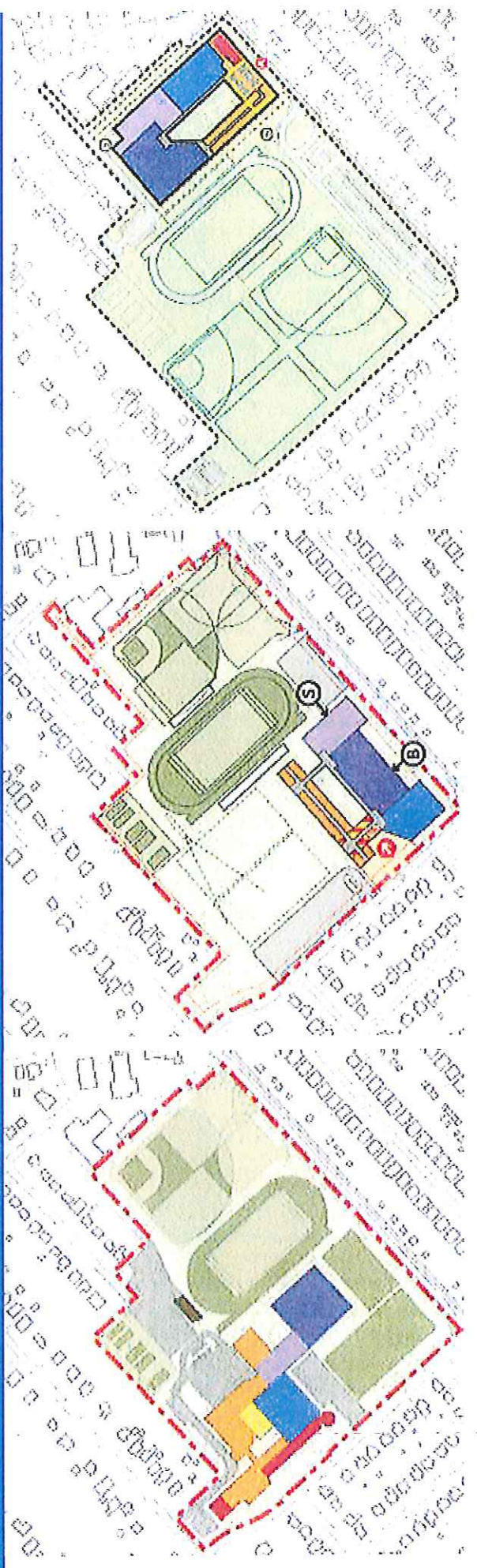




	Maintain Exstg	Renovate Exstg	New Leamy Ave	New Saxer Ave
COSTS				
Estimated Project Cost Range (2013 costs)	\$76M - \$92M	\$101M - \$123M	\$103M - \$125M	\$99M - \$121M
Estimated Project Cost Range (est. 2021 costs)	\$102M - \$124M	\$135M - \$165M	\$138M - \$168M	\$132M - \$162M
PHASING / SCHEDULE				
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)
TEMPORARY SPACE				
Temporary Classrooms, etc. required	yes	yes	no	no

Financing and Schedule





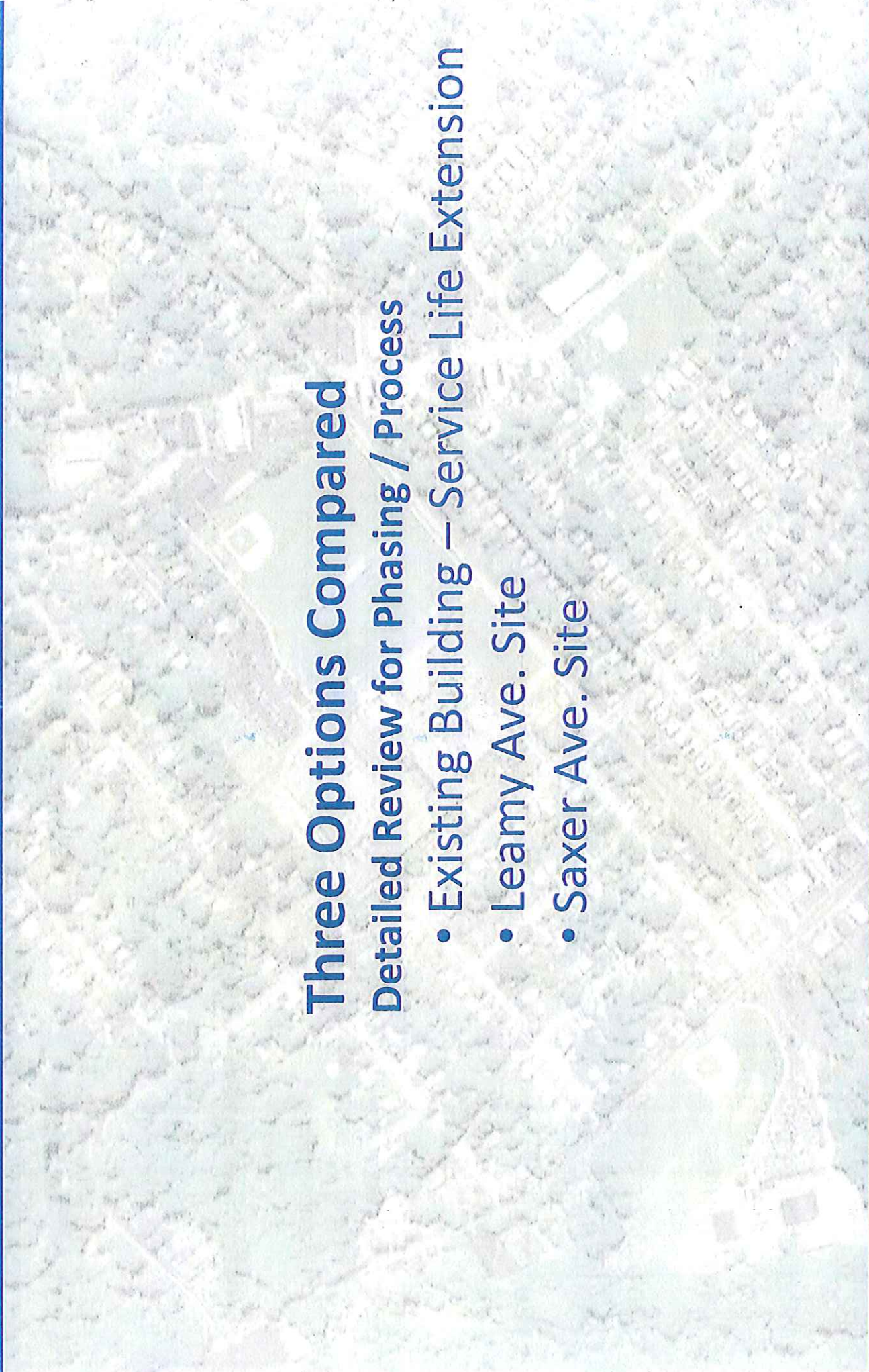
Discussion



Three Options Compared

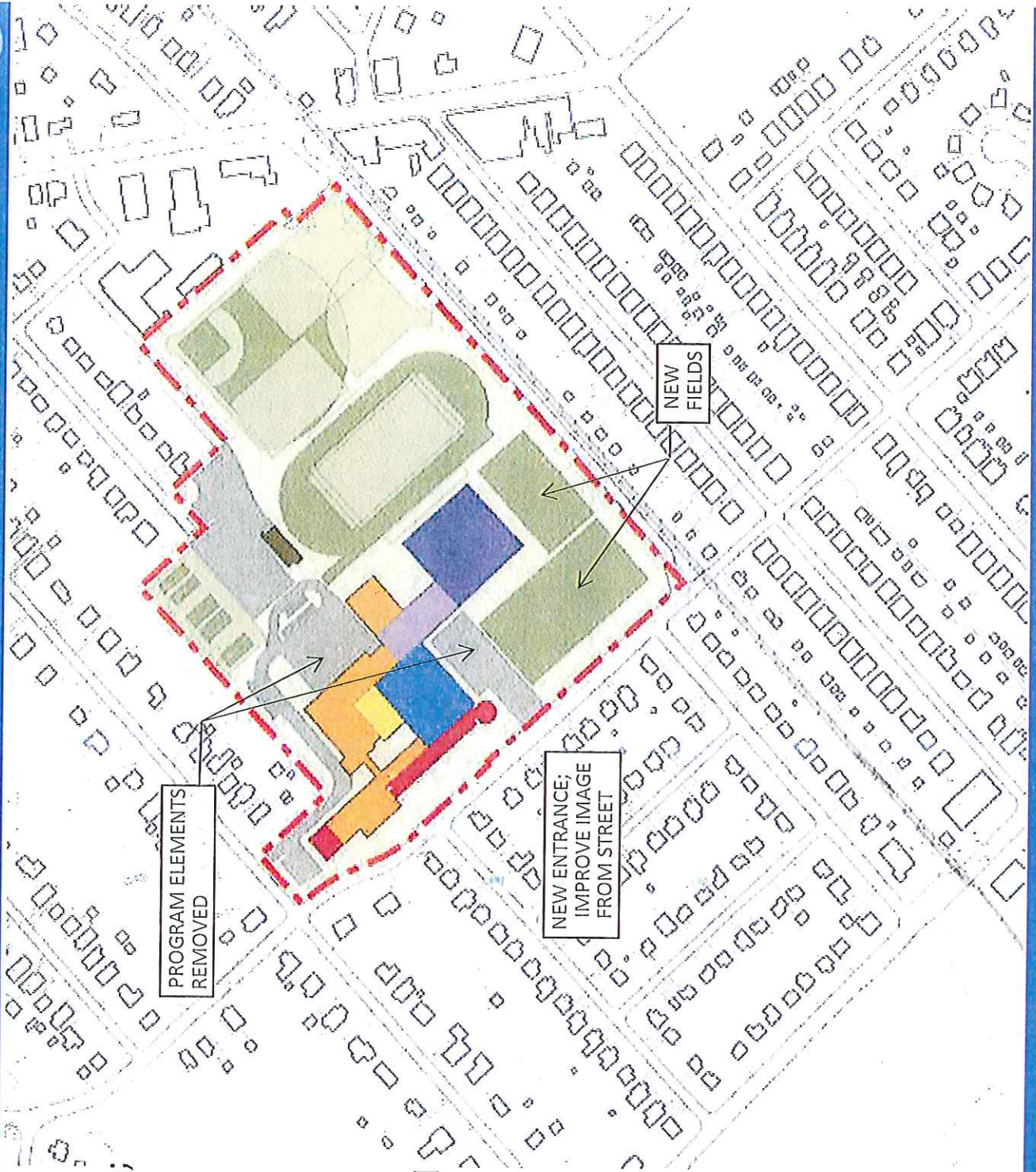
Detailed Review for Phasing / Process

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- Leamy Ave. Site
- Saxer Ave. Site



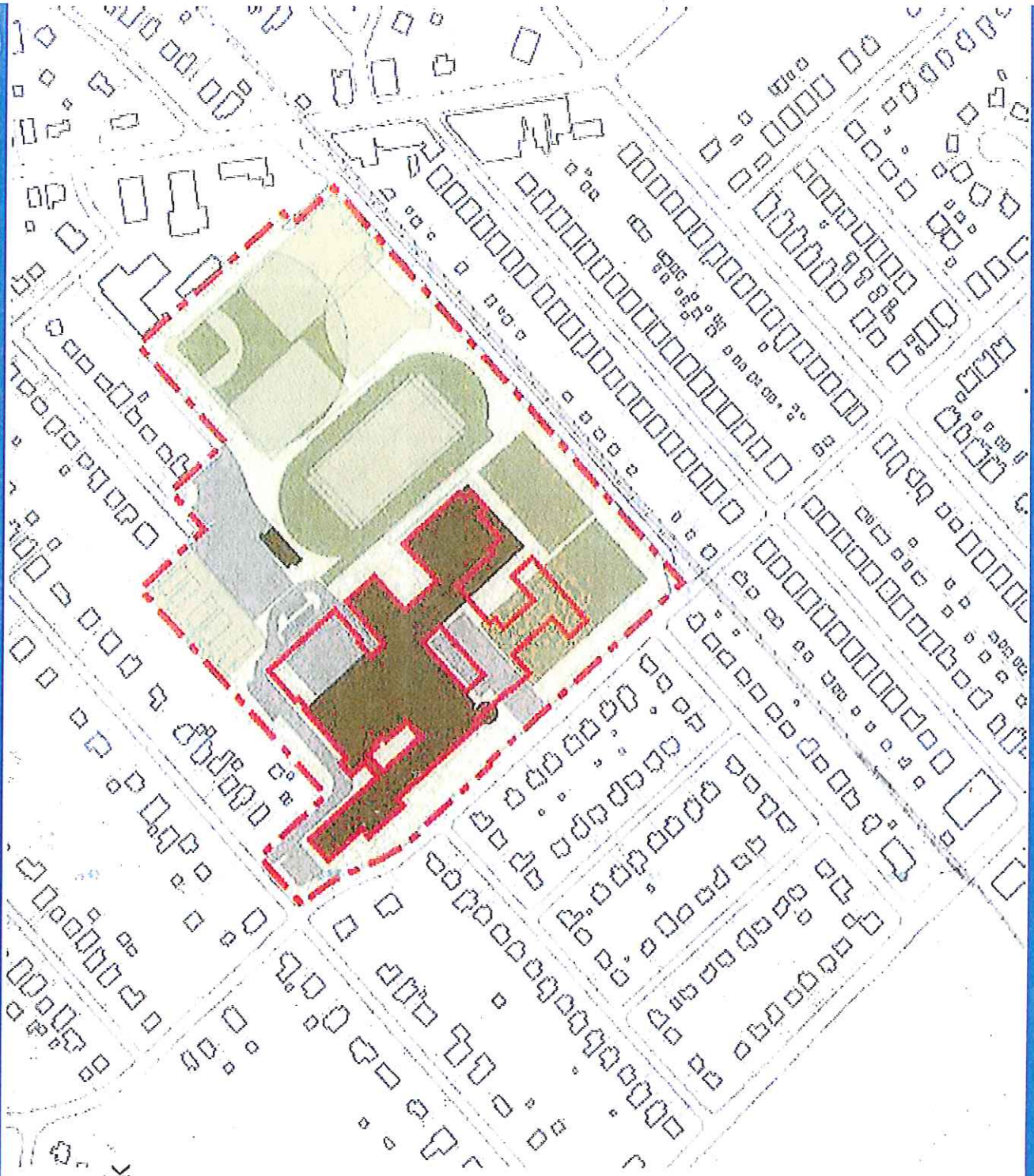
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- Relocation of District Office and Bus Parking
- Building Performance and design upgrades :
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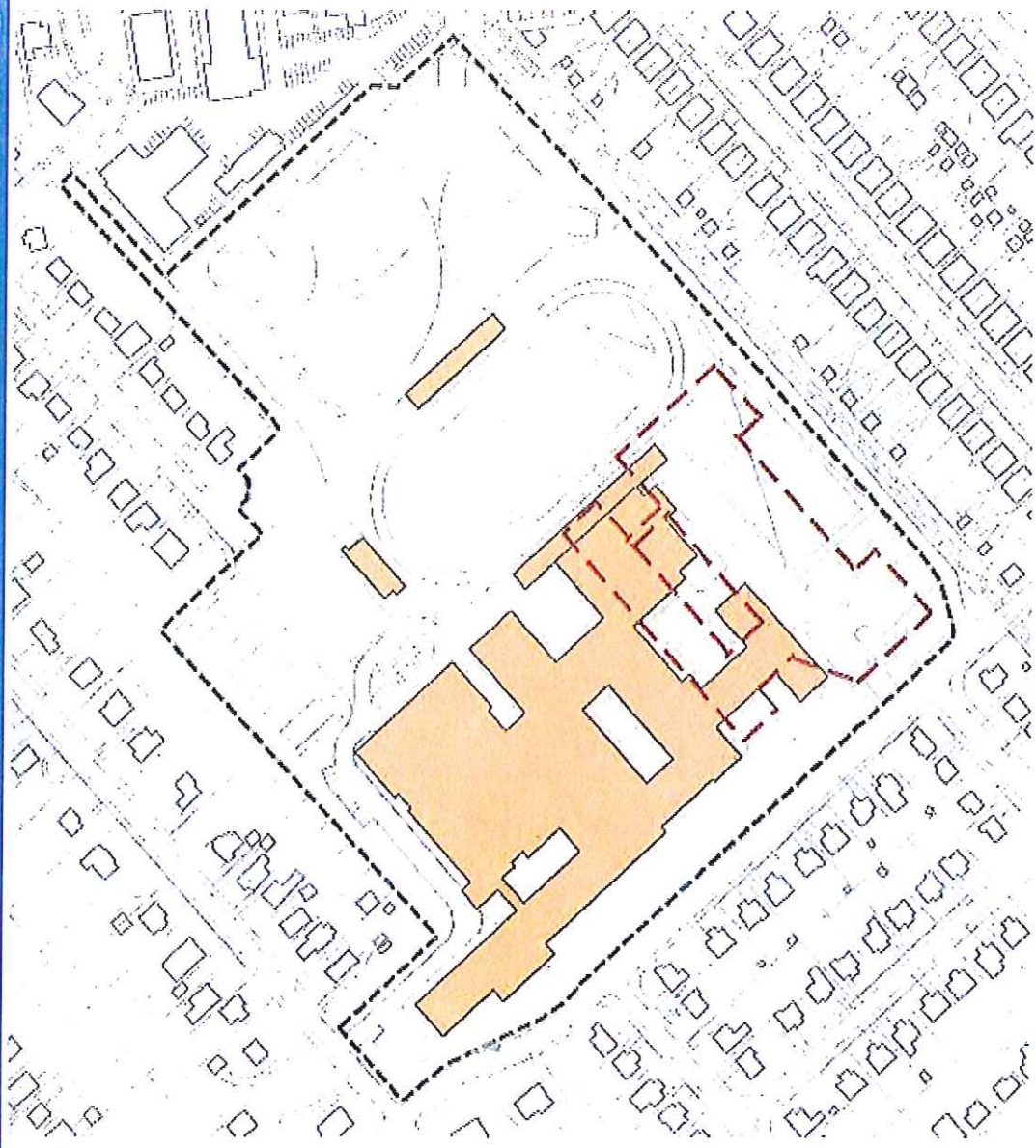
PHASING CHALLENGES

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LEAMY AVENUE SITE

- EXISTING HIGH SCHOOL
- NEW BUILDING FOOTPRINT



**LEAMY AVENUE SITE
PHASE 1A - PREPARE FOR NEW CONSTRUCTION**

 EXISTING HIGH SCHOOL

 CONSTRUCTION ZONE

 BUILDINGS & SITE FEATURES TO
TO BE DEMOLISHED

 UTILITIES REMOVED

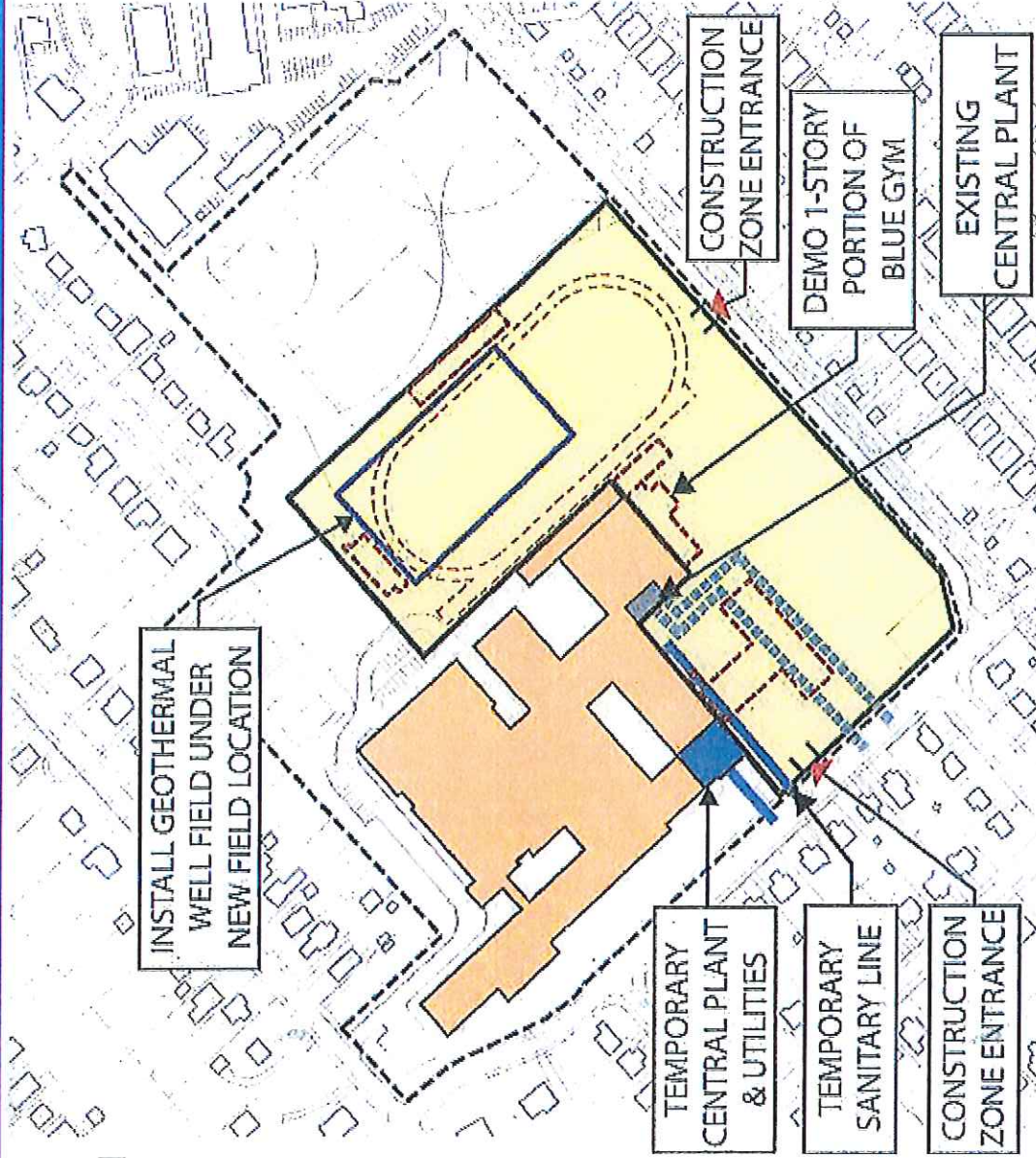
 NEW UTILITIES

NOTES:

CREATE TEMPORARY CENTRAL PLANT
AT AUXILIARY GYM

DEMOLITION/ RELOCATION WORK

- EXISTING SCHOOL DISTRICT OFFICES
- RELOCATE IT/NETWORK HUB
- DEMO PORTION OF BLUE GYM
- TRACK & PORTION OF BLEACHERS



INSTALL GEOTHERMAL
WELL FIELD UNDER
NEW FIELD LOCATION

TEMPORARY
CENTRAL PLANT
& UTILITIES

TEMPORARY
SANITARY LINE





CONSTRUCTION
ZONE ENTRANCE

CONSTRUCTION
ZONE ENTRANCE

DEMO 1-STORY
PORTION OF
BLUE GYM

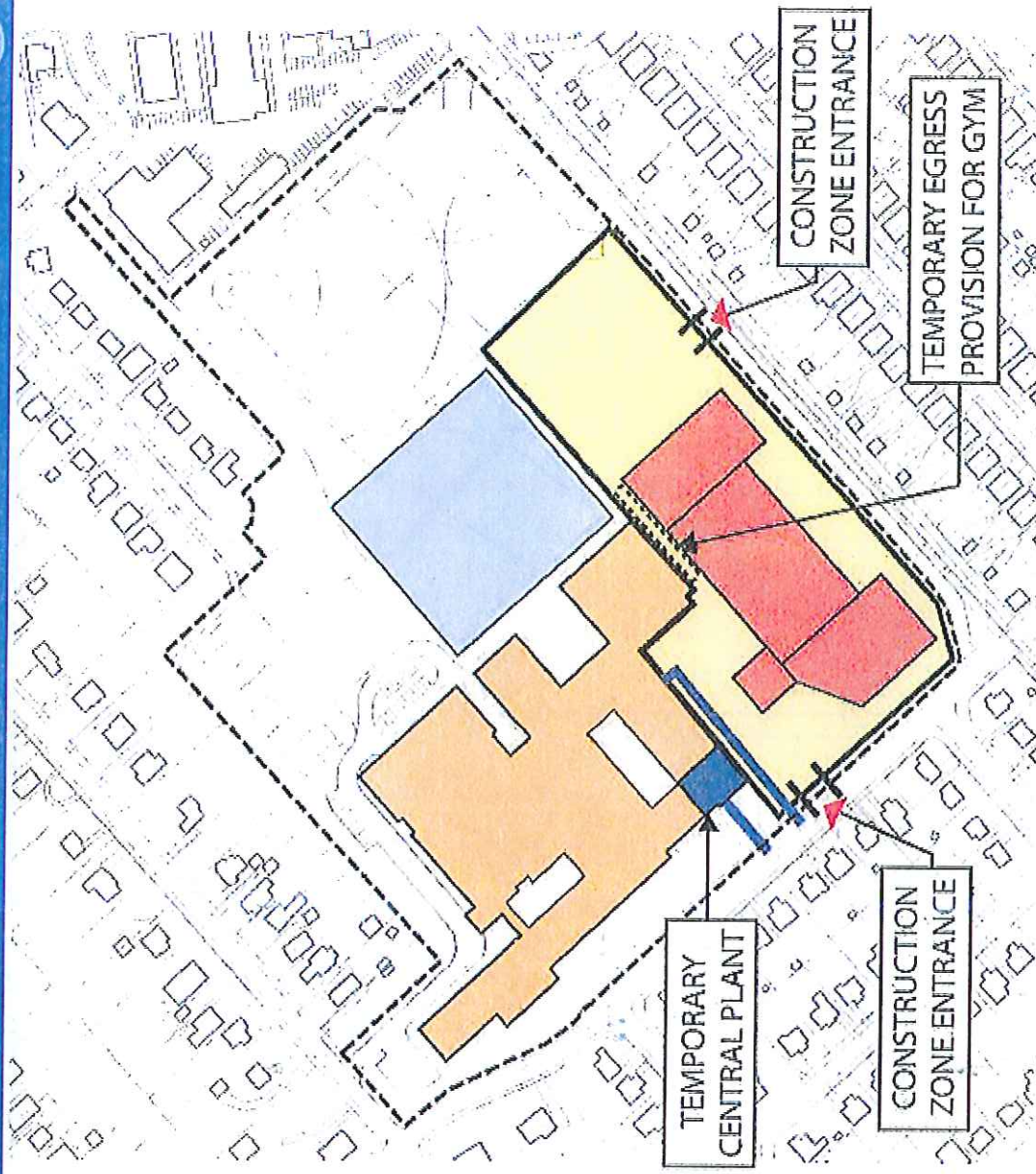
EXISTING
CENTRAL PLANT

LEAMY AVENUE SITE
PHASE 1B -
CONSTRUCTION OF "BIG BOX" ELEMENTS
(THEATER, GYM, & CAFETERIA)

-  EXISTING HIGH SCHOOL
-  CONSTRUCTION ZONE
-  NEW HIGH SCHOOL
-  TEMPORARY FIELDS

NOTES:






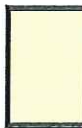
BEGIN CONSTRUCTION OF NEW HIGH SCHOOL
("BIG BOX" PROGRAM ELEMENTS)



LEAMY AVENUE SITE

PHASE 2

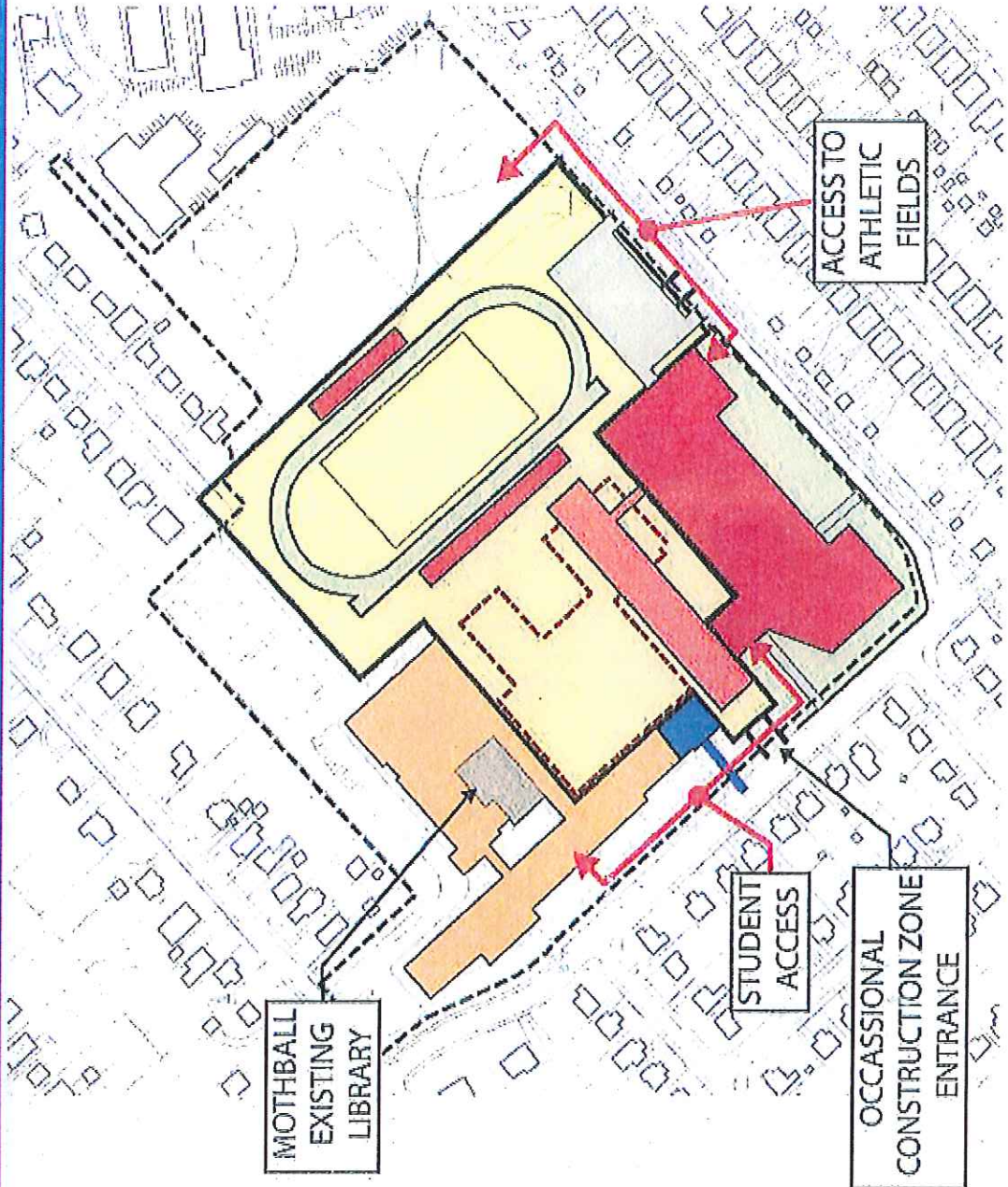
CONSTRUCTION OF ACADEMIC WING

-  EXISTING HIGH SCHOOL ACADEMIC PROGRAM
-  DEMOLITION OF REDUNDANT PROGRAMMING (SUMMER WORK)
-  NEW HIGH SCHOOL COMPLETED PHASE
-  NEW HIGH SCHOOL CONSTRUCTION
-  NEW SITE IMPROVEMENTS TRACK & PARKING (SUMMER WORK)
-  CONSTRUCTION ZONE

NOTES:

CONSTRUCTION OF CLASSROOM WING

CONSTRUCTION OF TRACK & FIELD



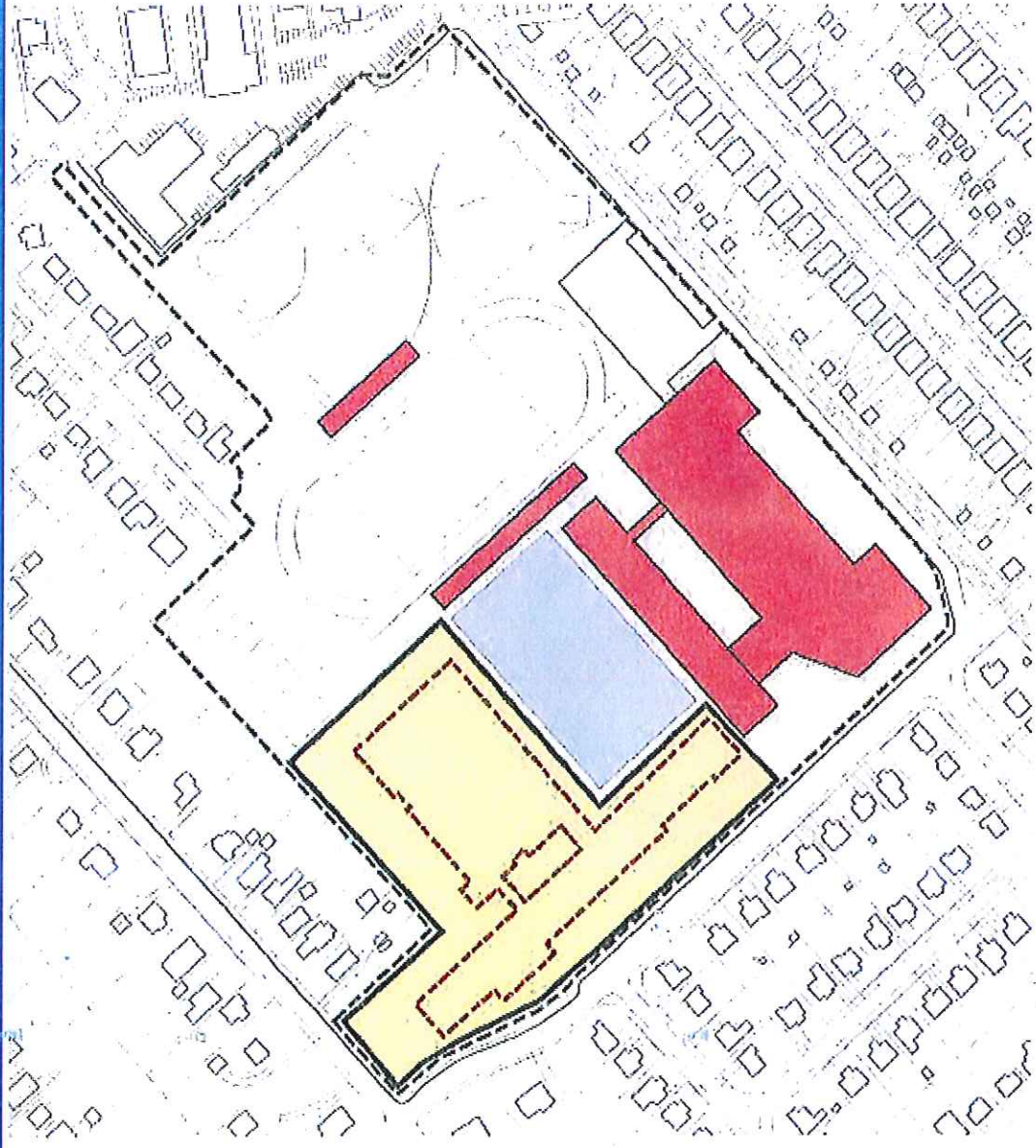
LEAMY AVENUE SITE
PHASE 3
COMPLETE DEMO OF OLDER SCHOOL

-  COMPLETED HIGH SCHOOL
-  AREA TO BE REMOVED
-  CONSTRUCTION ZONE
-  TEMPORARY FIELD

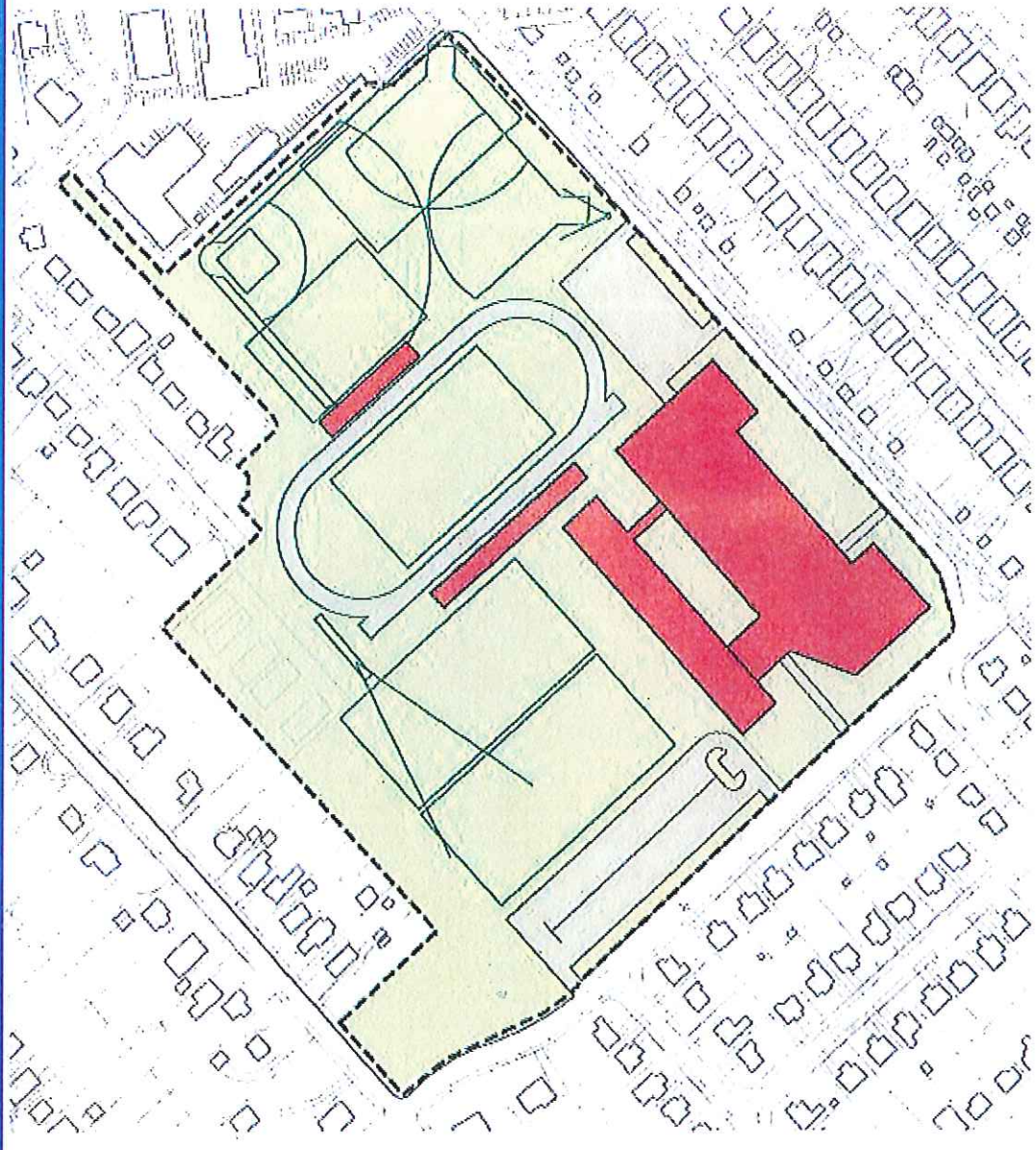
NOTES:

REMOVE REMAINING PORTION OF EXISTING SCHOOL

CONSTRUCTION OF NEW PLAYING FIELDS



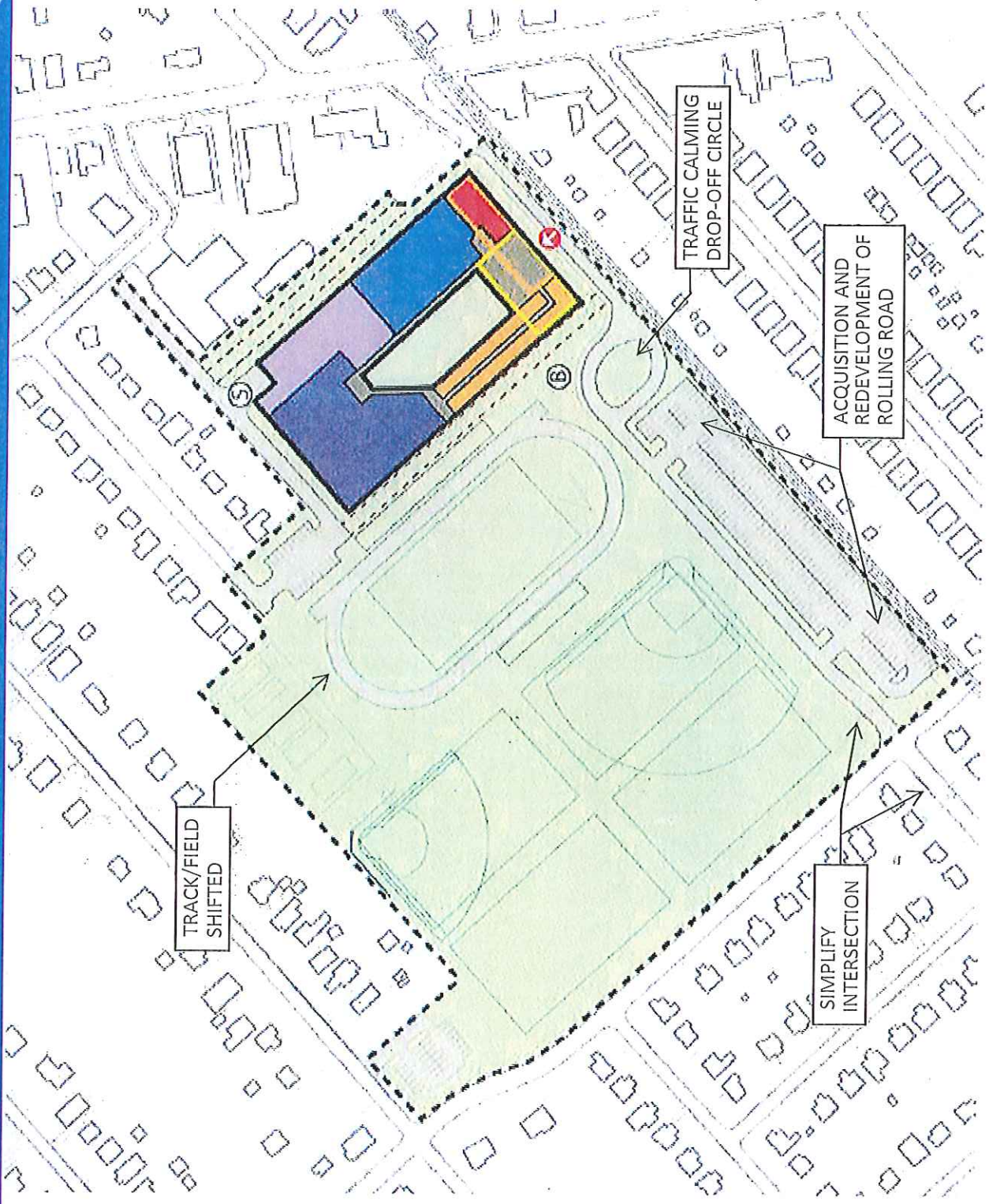
LEAMY AVENUE SITE



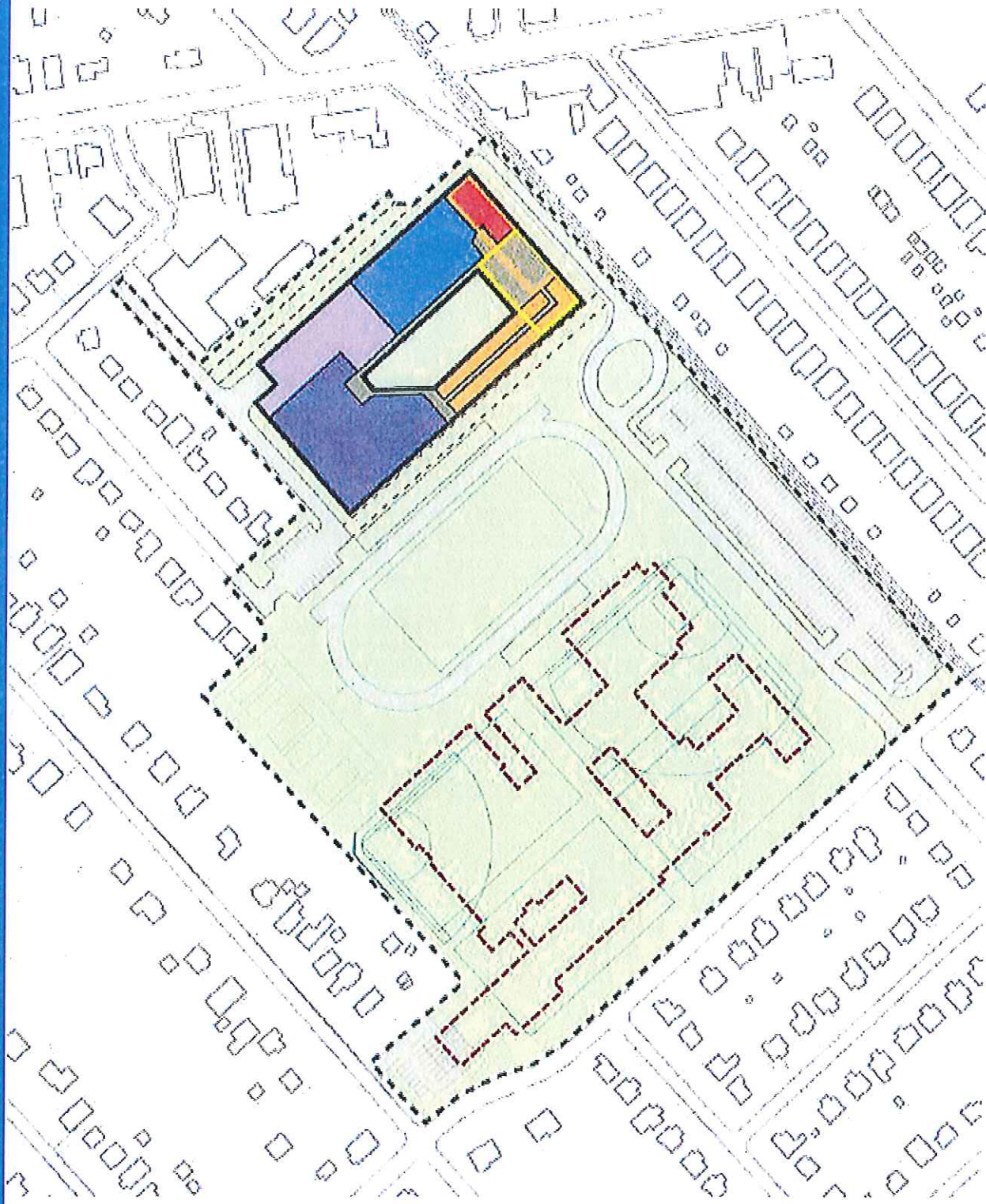
Leamy Ave. Site

Completion of site improvements

SAXER AVENUE SITE



Saxer Avenue Site



SAXER AVENUE SITE

Phasing Notes

- New School can be developed while Existing School remains fully operational
- Track and Field can be relocated prior to any other work; only rear parking would be displaced
- Geothermal Wellfield: under track or parking