

INDEX

CONCEPT DESIGN OVERVIEW	661
EXISTING BUILDING FLOOR PLANS	663
/ Elm Street Middle School Existing Floor Plans	665
/ Fairgrounds Middle School Existing Floor Plan	671
/ Pennichuck Middle School Existing Floor Plan	673
EMS RENOVATION / ADDITION	675
/ Design Narrative	675
/ Site Plan	676
/ Floor Plans	677
FMS RENOVATION / ADDITION	681
/ Design Narrative	681
/ Site Plan	682
/ Floor Plan	683
PMS RENOVATION / ADDITION	685
/ Design Narrative	685
/ Site Plan	686
/ Floor Plan	687
NEW NASHUA MIDDLE SCHOOL	689
/ Design Narrative	689
/ Site Plan	690
/ Floor Plans	691
/ Massing Diagrams	695

SECTION 4

CONCEPT DESIGN

CONCEPT DESIGN OVERVIEW

SECTION 4: CONCEPT DESIGN

The concept designs are broken out by each middle school location: Elm Street Middle School, Fairgrounds Middle School, Pennichuck Middle School, and a possible New Nashua Middle School that could be located on a parcel of land owned by the City in the southwest quadrant of Nashua.

The designs described in this section can be broken into two separate options.

Option 1 includes major renovations and additions to the existing Elm Street Middle School, renovations and an addition to the administration area of Fairgrounds Middle School, and renovations and additions to Pennichuck Middle School.

Option 2 includes the building of a new middle school on property located in the southwest quadrant of the city of Nashua that abuts Cherrywood Drive. This new school is intended to replace the existing Elm Street Middle School. The proposed designs for Fairgrounds Middle School and Pennichuck Middle School are as described in Option 1.

The concept designs of the middle schools address the goal of providing educational facilities that support equivalent access to programs at all of Nashua's middle schools. The scope of renovations does not necessarily address all facility deficiencies and concerns identified in *Section 2: Facility Analysis* of this report.

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CONCEPT DESIGN OVERVIEW (CONT.)

SECTION 4: CONCEPT DESIGN

EXISTING BUILDING FLOOR PLANS

SECTION 4: CONCEPT DESIGN

- / Elm Street Middle School Floor Plan
- / Fairgrounds Middle School Floor Plan
- / Pennichuck Middle School Floor Plan

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EXISTING BUILDING FLOOR PLANS (CONT.)
SECTION 4: CONCEPT DESIGN

EXISTING BUILDING FLOOR PLANS (CONT.)—EMS

SECTION 4: CONCEPT DESIGN



LEGEND

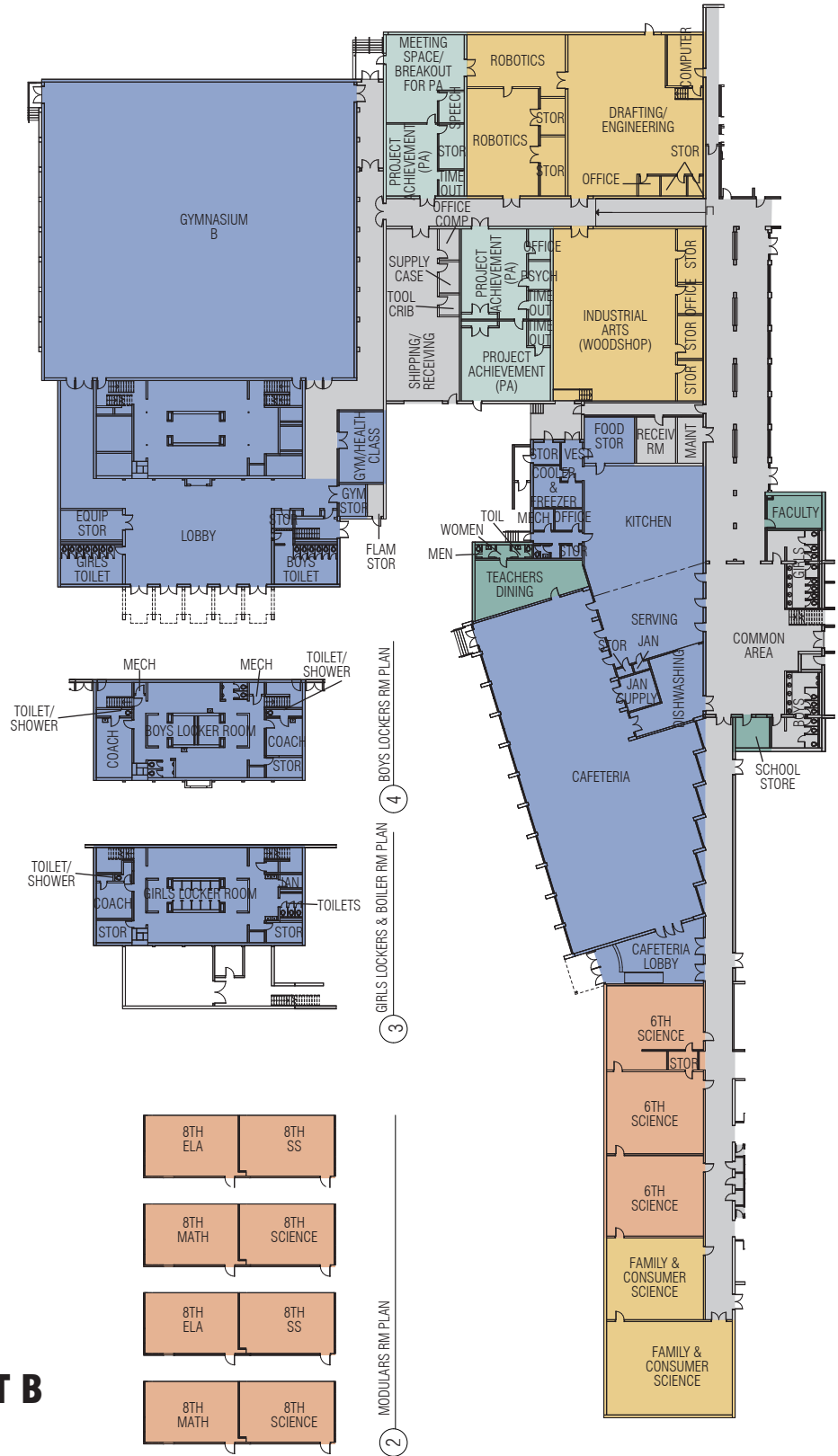
CLASSROOMS / LABS
UNIFIED ARTS
SPECIAL EDUCATION
ADMINISTRATION
GYM / CAFETERIA / LIBRARY
SUPPORT SPACES



GROUND FLOOR — PART A

EXISTING BUILDING FLOOR PLANS (CONT.)—EMS

SECTION 4: CONCEPT DESIGN



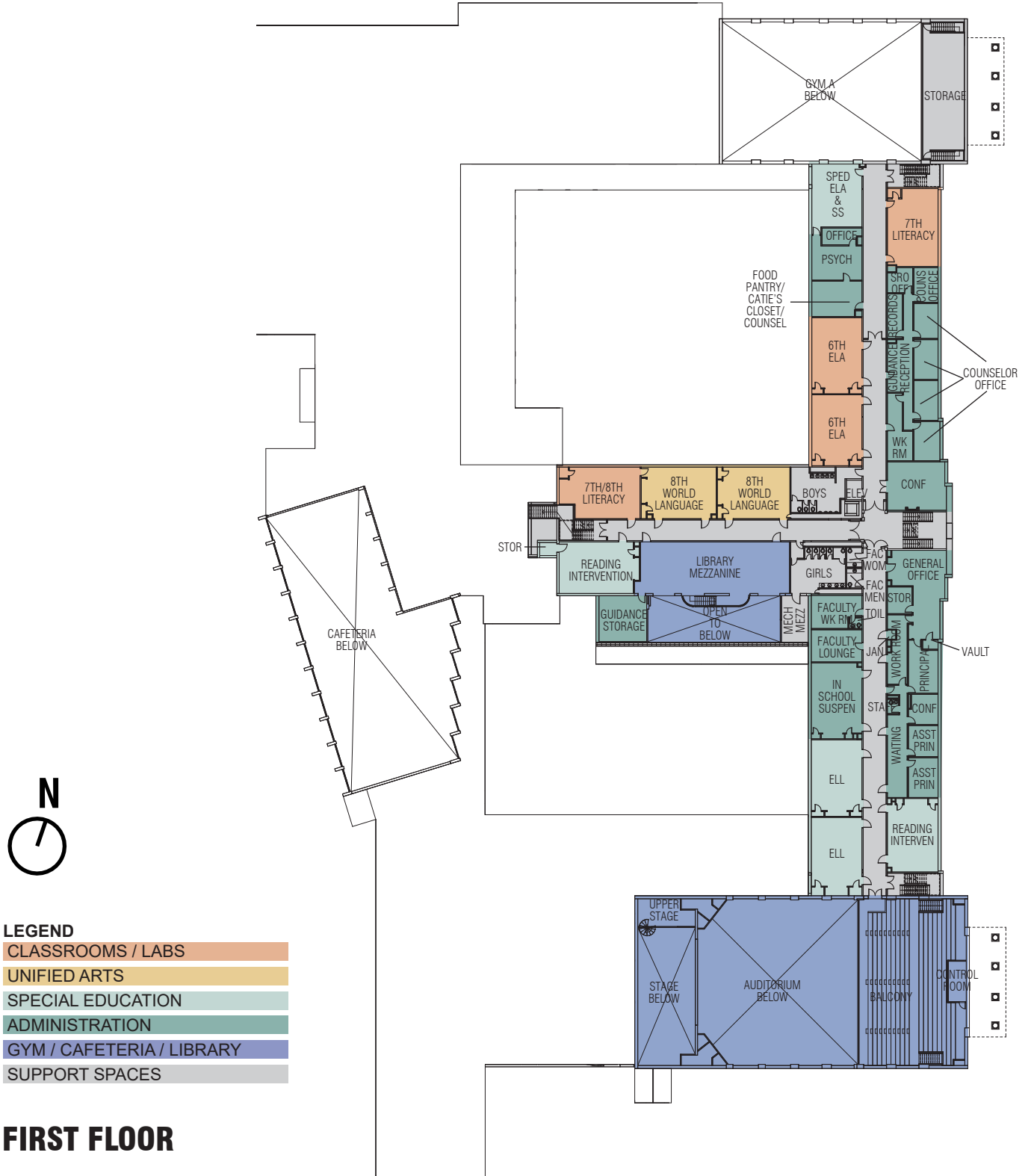
LEGEND

- CLASSROOMS / LABS
- UNIFIED ARTS
- SPECIAL EDUCATION
- ADMINISTRATION
- GYM / CAFETERIA / LIBRARY
- SUPPORT SPACES

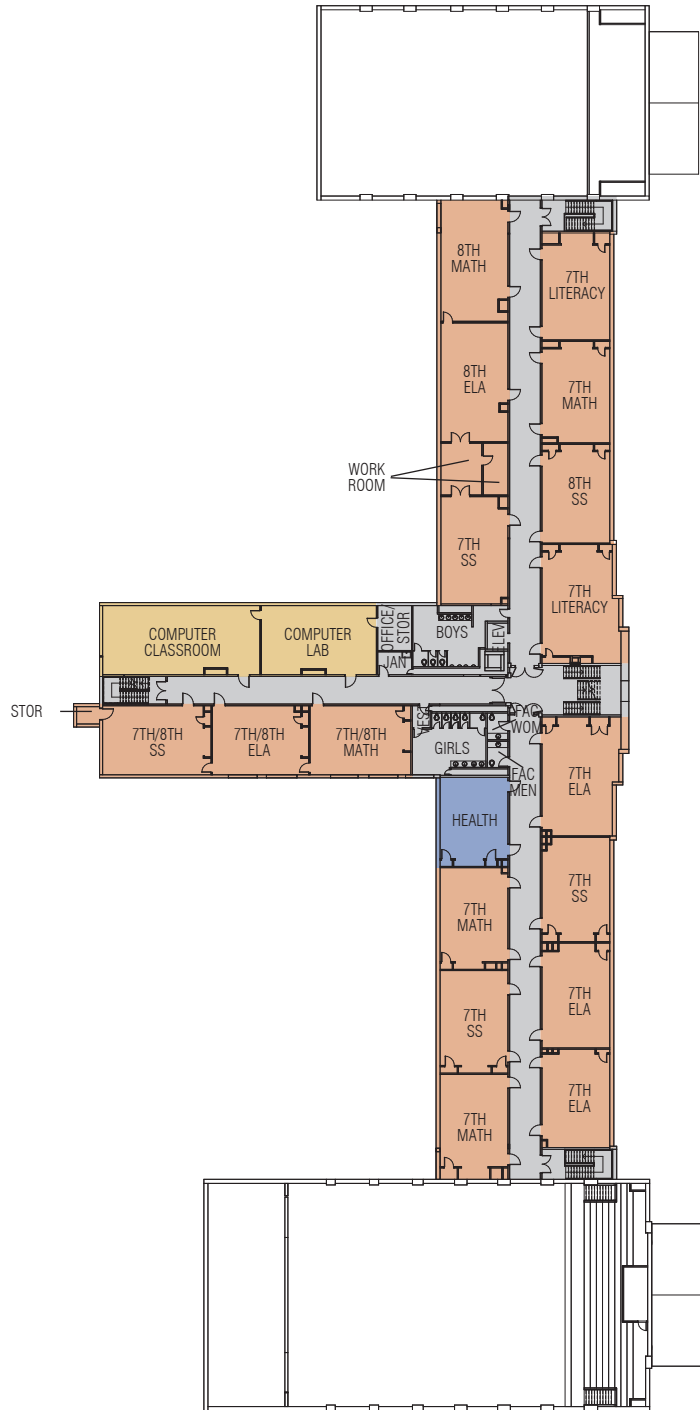
GROUND FLOOR — PART B

EXISTING BUILDING FLOOR PLANS (CONT.)—EMS

SECTION 4: CONCEPT DESIGN



EXISTING BUILDING FLOOR PLANS (CONT.)—EMS
SECTION 4: CONCEPT DESIGN

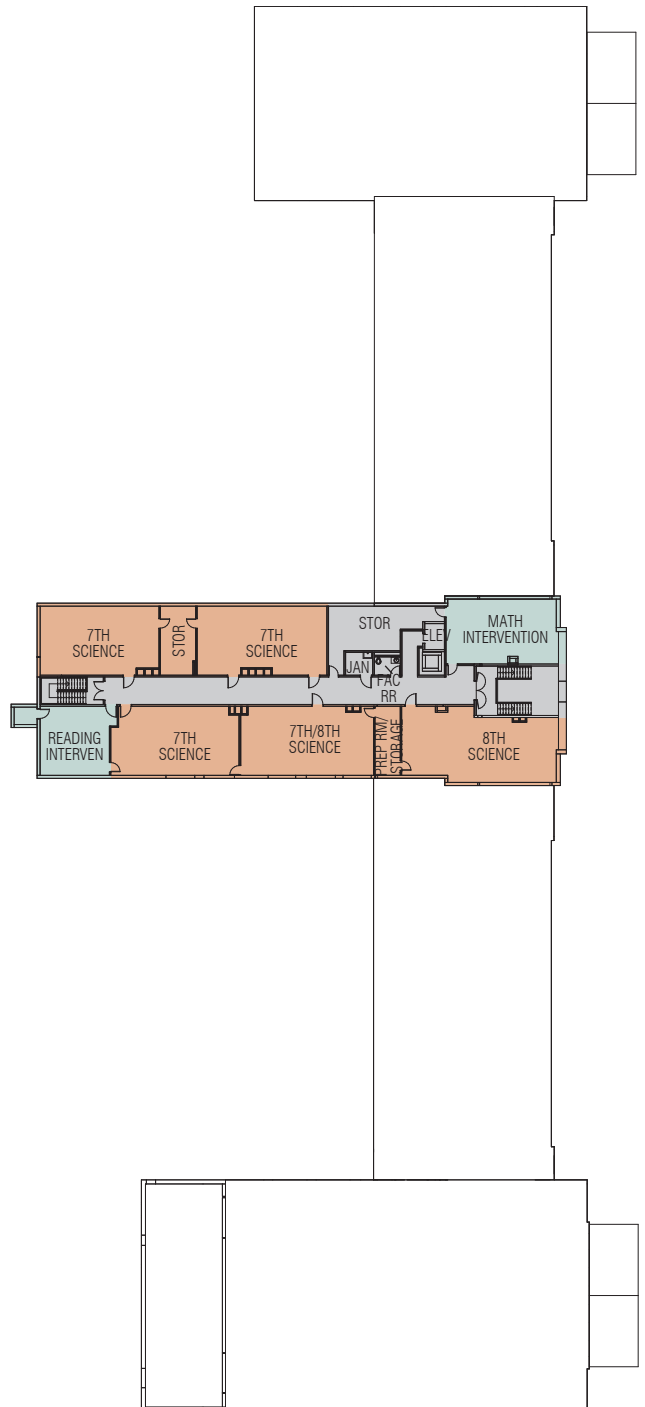


LEGEND

- CLASSROOMS / LABS
- UNIFIED ARTS
- SPECIAL EDUCATION
- ADMINISTRATION
- GYM / CAFETERIA / LIBRARY
- SUPPORT SPACES

SECOND FLOOR

EXISTING BUILDING FLOOR PLANS (CONT.)—EMS
SECTION 4: CONCEPT DESIGN



LEGEND

- CLASSROOMS / LABS
- UNIFIED ARTS
- SPECIAL EDUCATION
- ADMINISTRATION
- GYM / CAFETERIA / LIBRARY
- SUPPORT SPACES

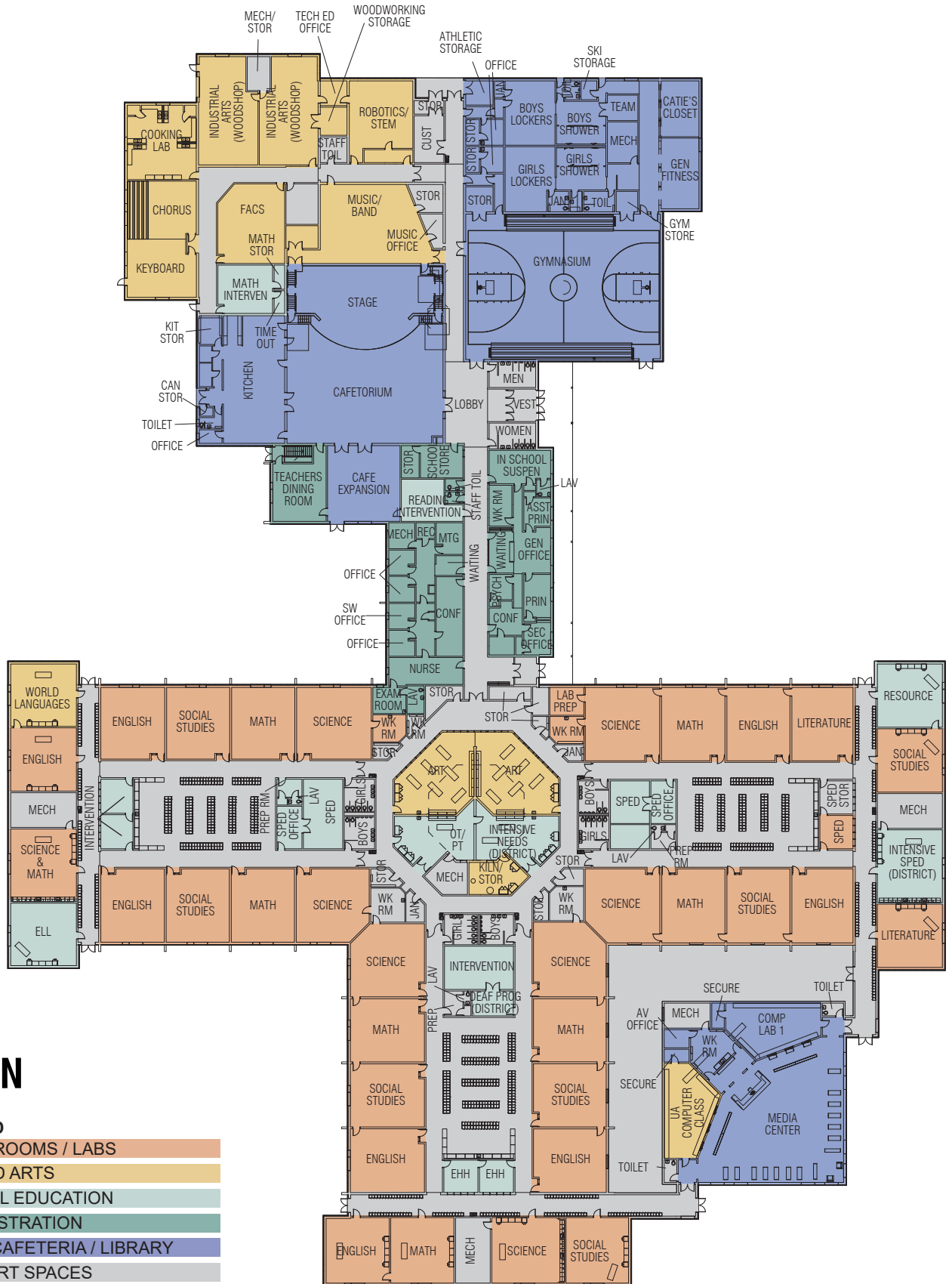
THIRD FLOOR

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EXISTING BUILDING FLOOR PLANS (CONT.)—EMS
SECTION 4: CONCEPT DESIGN

EXISTING BUILDING FLOOR PLANS (CONT.)—FMS

SECTION 4: CONCEPT DESIGN



LEGEND

- CLASSROOMS / LABS
- UNIFIED ARTS
- SPECIAL EDUCATION
- ADMINISTRATION
- GYM / CAFETERIA / LIBRARY
- SUPPORT SPACES

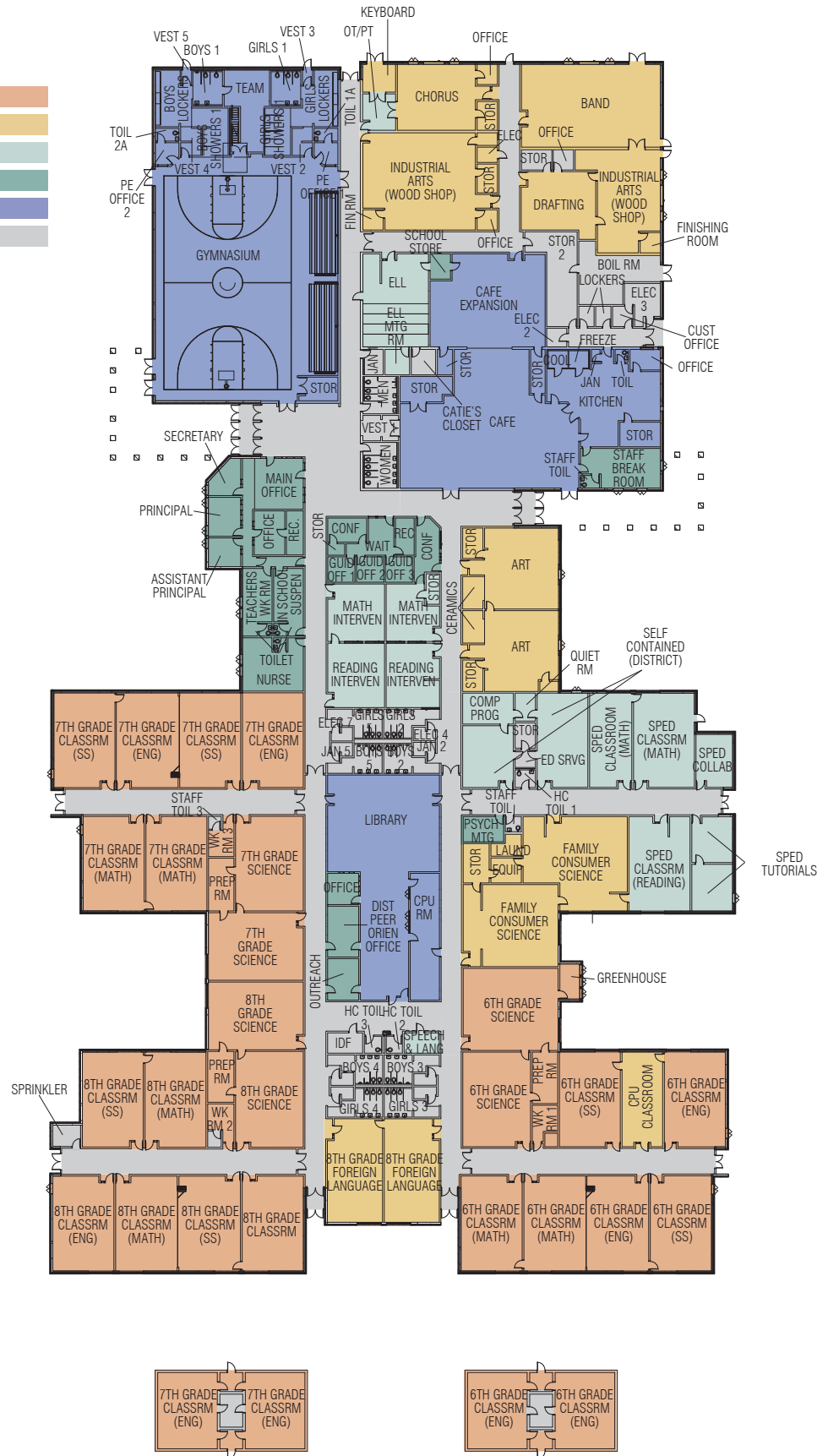
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EXISTING BUILDING FLOOR PLANS (CONT.)—FMS
SECTION 4: CONCEPT DESIGN

EXISTING BUILDING FLOOR PLANS (CONT.)—PMS

SECTION 4: CONCEPT DESIGN

LEGEND

CLASSROOMS / LABS
UNIFIED ARTS
SPECIAL EDUCATION
ADMINISTRATION
GYM / CAFETERIA / LIBRARY
SUPPORT SPACES



.....
EXISTING BUILDING FLOOR PLANS (CONT.)—PMS
SECTION 4: CONCEPT DESIGN

EMS RENOVATION/ADDITION

SECTION 4: CONCEPT DESIGN

DESIGN NARRATIVE

The concept design for Elm Street Middle School can be defined as having a new secure and accessible main entry to an updated and upgraded building. A new administration area would welcome students, staff, and guests before entering a refreshingly open community commons and a rebuilt cafeteria. Continuing around the building, points of interest include resized classrooms, SPED classrooms updates, unified arts space adjustments, and an accessible music and band room.

Architectural Design Features

The following items highlight some of the design features proposed for the existing Elm Street Middle School.

Exterior

- / New secure and accessible entrance location
- / Reconfigured drop-off at entry bus loop
- / On-site dedicated parent drop-off lane
- / New off-street parking lot
- / Removal of portable classrooms
- / Replacement of roofing at existing building locations
- / Replacement of existing windows
- / Limited existing masonry repointing

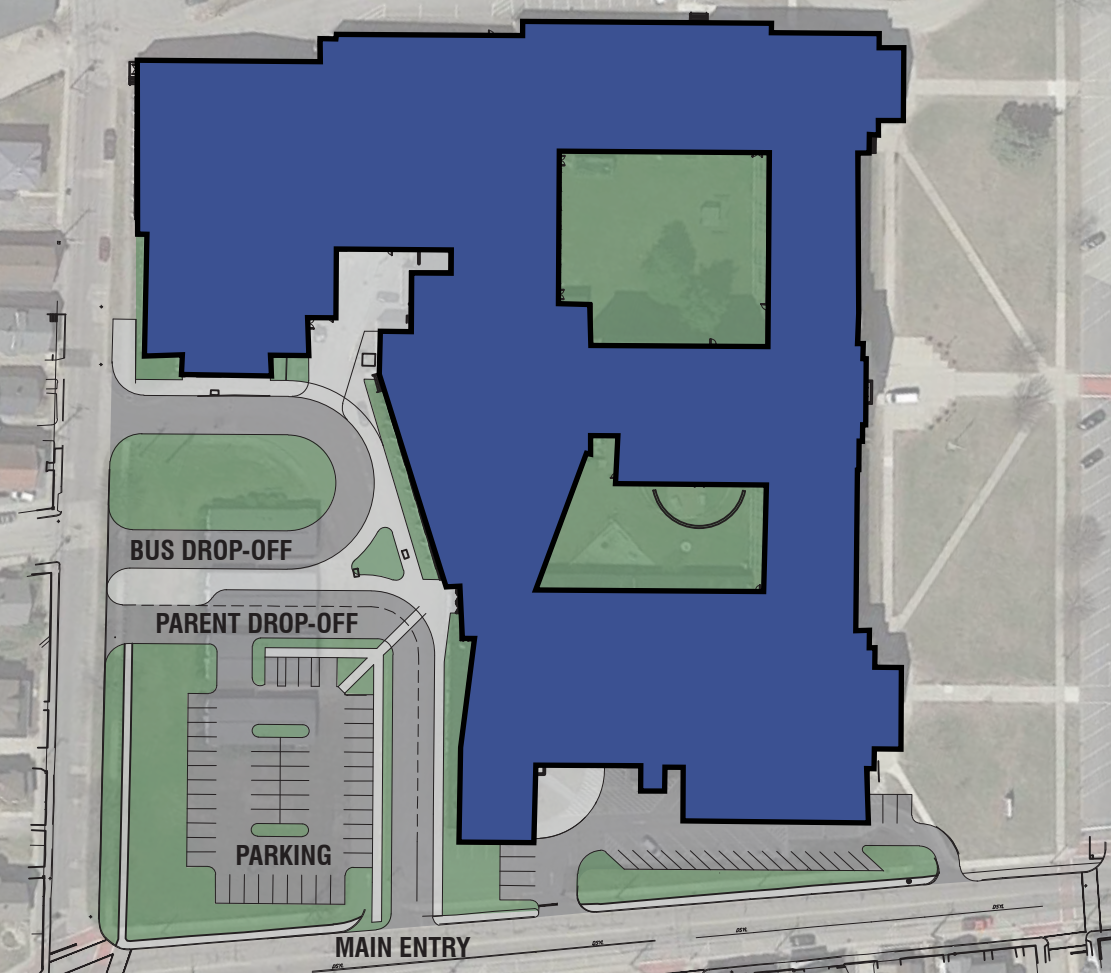
Interior

- / Hazardous materials remediation
- / Reconstruction of wood floor structure and existing gypsum planking system with new slabs in the 1930s portion of the building
- / Upgrades to the structural lateral system to meet current codes in the 1930s portion of the building
- / Reconfiguration of partitions to better accommodate appropriate New Hampshire Department of Education requirements
- / Building upgrades to better achieve accessibility requirements
- / Updated safety and security features
- / Updates to some of the building finishes
- / New welcoming, secure, and accessible main entrance
- / New relocated administration area

- / New cafeteria and kitchen
- / Updated special education classrooms
- / Modified and updated unified arts classrooms
- / Creation of team collaborative instruction spaces
- / New auditorium lobby and accessible toilet rooms
- / Updated building electrical service
- / Updated building electrical systems
- / Upgraded mechanical and plumbing systems

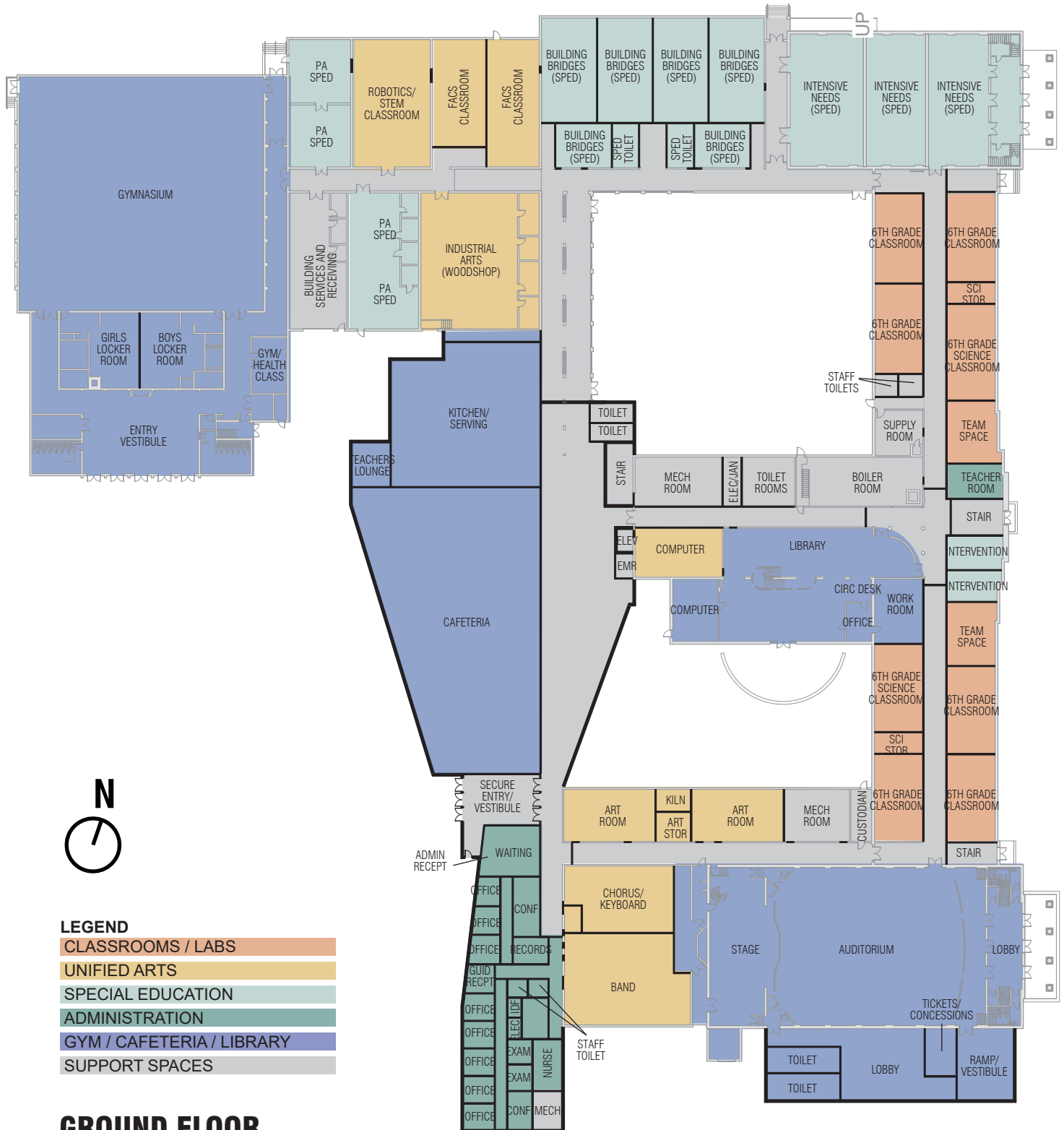
The concept design for Elm Street Middle School does not necessarily address all facility deficiencies or concerns identified in *Section 2: Facility Analysis* of this report.

EMS RENOVATION/ADDITION (CONT.)—EMS SITE PLAN
SECTION 4: CONCEPT DESIGN



EMS RENOVATION/ADDITION (CONT.)—GROUND FLOOR PLAN

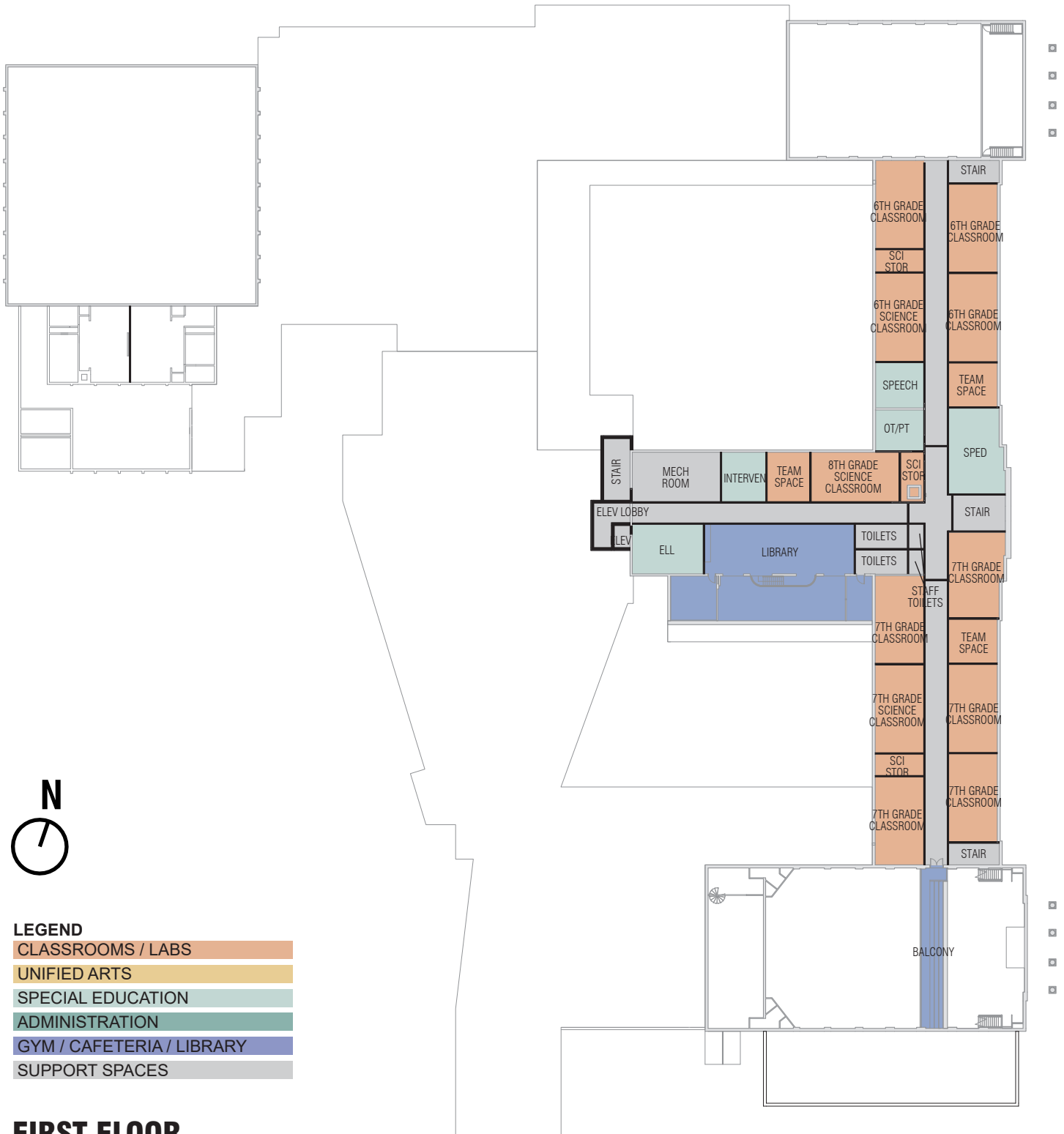
SECTION 4: CONCEPT DESIGN



GROUND FLOOR

EMS RENOVATION/ADDITION (CONT.)—FIRST FLOOR PLAN

SECTION 4: CONCEPT DESIGN



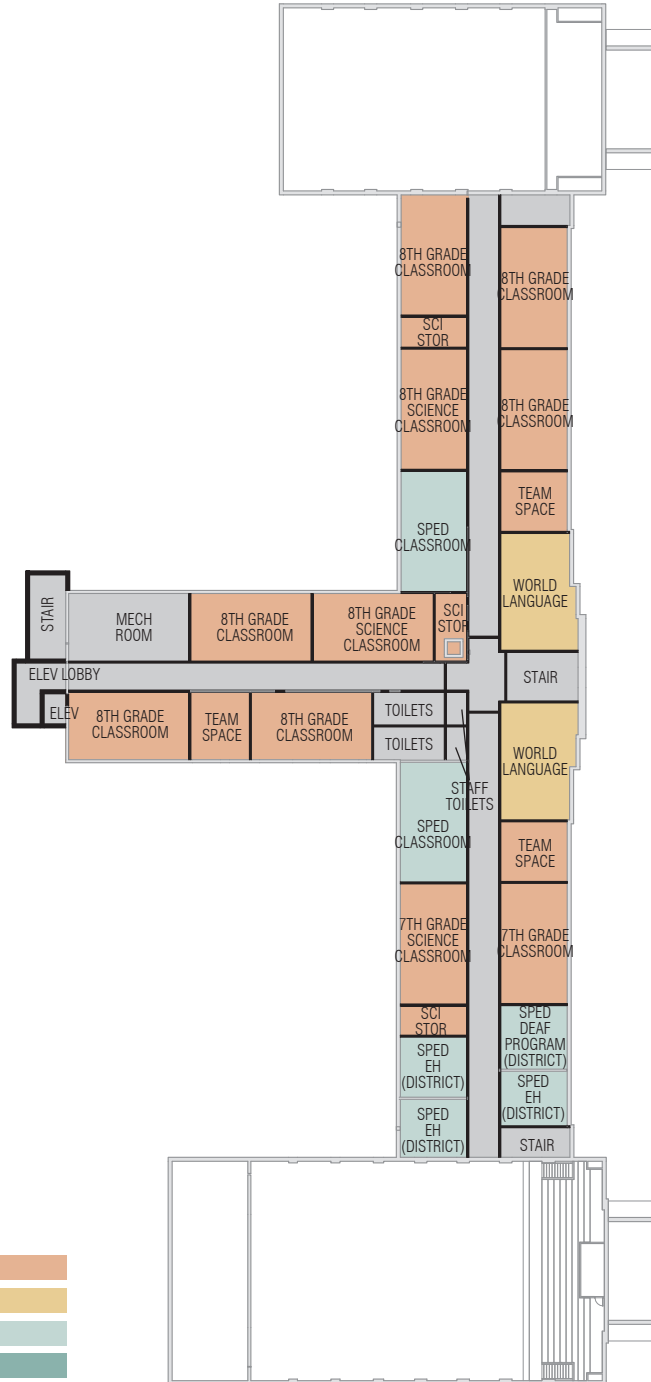
LEGEND

CLASSROOMS / LABS
UNIFIED ARTS
SPECIAL EDUCATION
ADMINISTRATION
GYM / CAFETERIA / LIBRARY
SUPPORT SPACES

FIRST FLOOR

EMS RENOVATION/ADDITION (CONT.)—SECOND FLOOR PLAN

SECTION 4: CONCEPT DESIGN

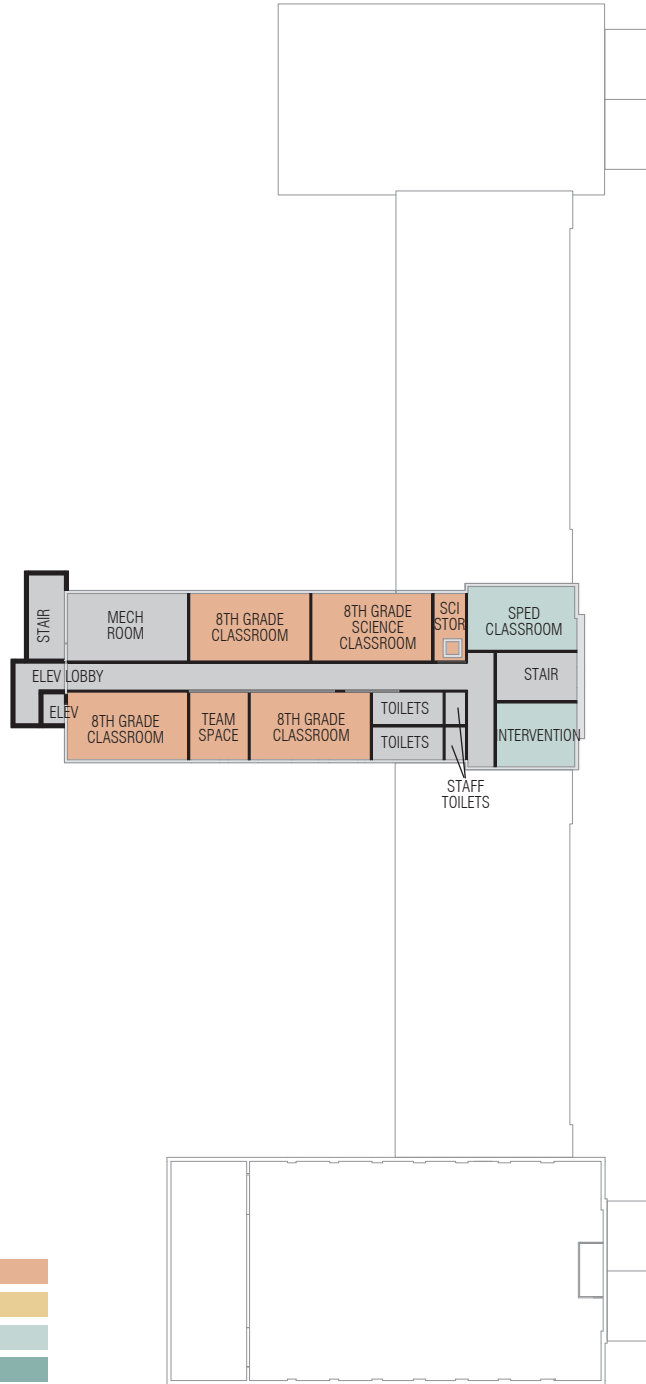


LEGEND

- CLASSROOMS / LABS
- UNIFIED ARTS
- SPECIAL EDUCATION
- ADMINISTRATION
- GYM / CAFETERIA / LIBRARY
- SUPPORT SPACES

SECOND FLOOR

EMS RENOVATION/ADDITION (CONT.)—THIRD FLOOR PLAN
SECTION 4: CONCEPT DESIGN



LEGEND

CLASSROOMS / LABS
UNIFIED ARTS
SPECIAL EDUCATION
ADMINISTRATION
GYM / CAFETERIA / LIBRARY
SUPPORT SPACES

THIRD FLOOR

FMS RENOVATION/ADDITION

SECTION 4: CONCEPT DESIGN

DESIGN NARRATIVE

The concept design for Fairgrounds Middle School enhances some key features necessary to provide an equitable learning environment.

Architectural Design Features

The following items highlight some of the design features proposed for the existing Fairgrounds Middle School.

Exterior

- / New parent drop-off and bus loop
- / Additional parking spaces on site
- / Upgraded perimeter security drive
- / On-street queuing lane for parent drop-off
- / Reconfigured parking at entry lot
- / New welcoming and secure building entry

Interior

- / New welcoming, secure, and accessible main entrance
- / New administration suite
- / Some upgrades to unified arts spaces
- / Science room upgrades and improved accessibility
- / Updated team collaborative instruction spaces
- / Gymnasium upgrades
- / Some upgrades to special education rooms
- / Limited systems upgrades, including mechanical, electrical, and fire alarm systems

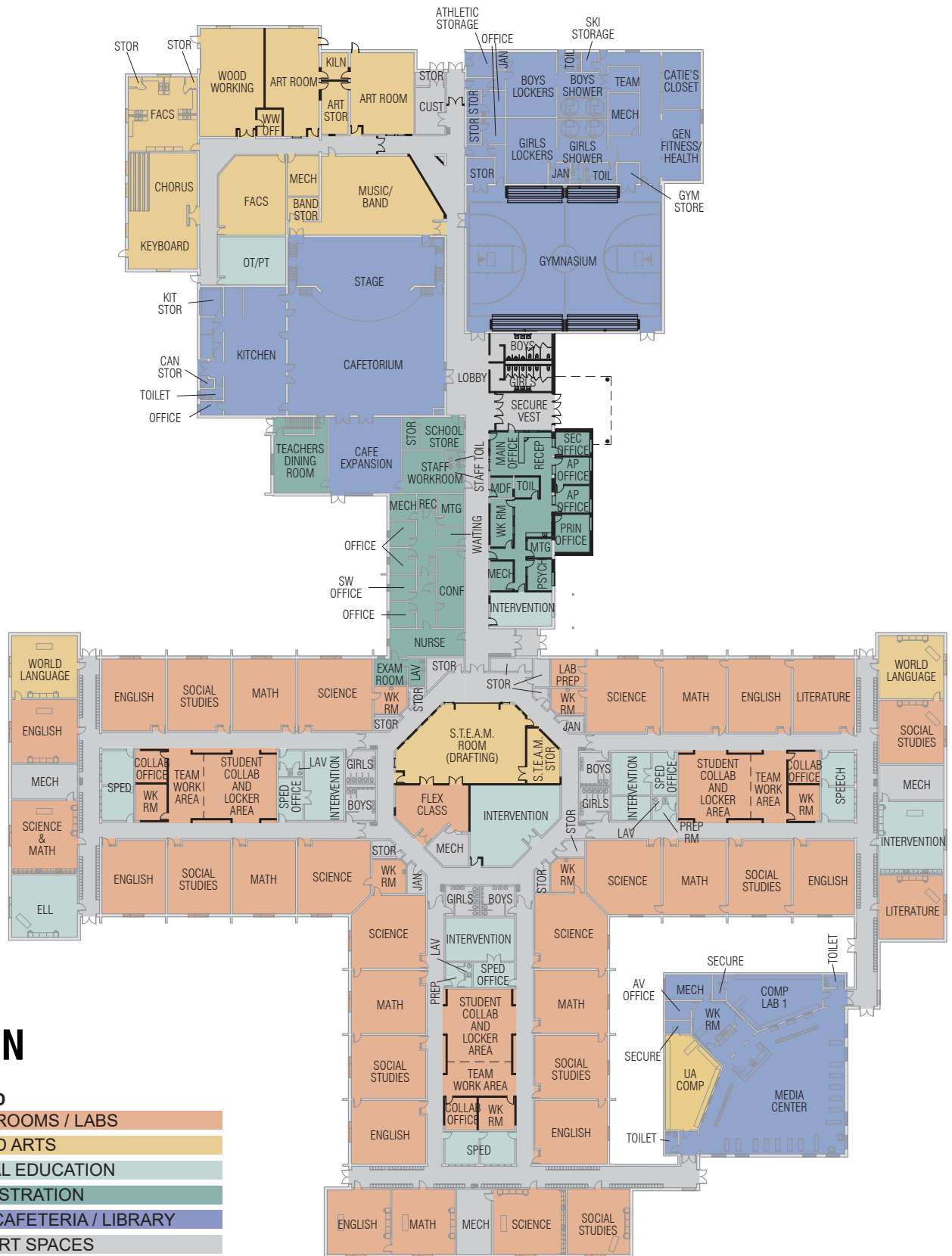
The concept design for Fairgrounds Middle School does not necessarily address all facility deficiencies or concerns identified in *Section 2: Facility Analysis* of this report.

FMS RENOVATION/ADDITION (CONT.)—SITE PLAN
SECTION 4: CONCEPT DESIGN



FMS RENOVATION/ADDITION (CONT.)—FLOOR PLAN

SECTION 4: CONCEPT DESIGN



LEGEND

CLASSROOMS / LABS
UNIFIED ARTS
SPECIAL EDUCATION
ADMINISTRATION
GYM / CAFETERIA / LIBRARY
SUPPORT SPACES

.....
FMS RENOVATION/ADDITION (CONT.)
SECTION 4: CONCEPT DESIGN

PMS RENOVATION/ADDITION

SECTION 4: CONCEPT DESIGN

DESIGN NARRATIVE

The concept design for Pennichuck Middle School includes new additions to support a larger student population and replace existing modular classrooms. Enhancements to the site and the building improve safety and the learning experience.

Architectural Design Features

The following items highlight some of the design features proposed for the existing Pennichuck Middle School.

Exterior

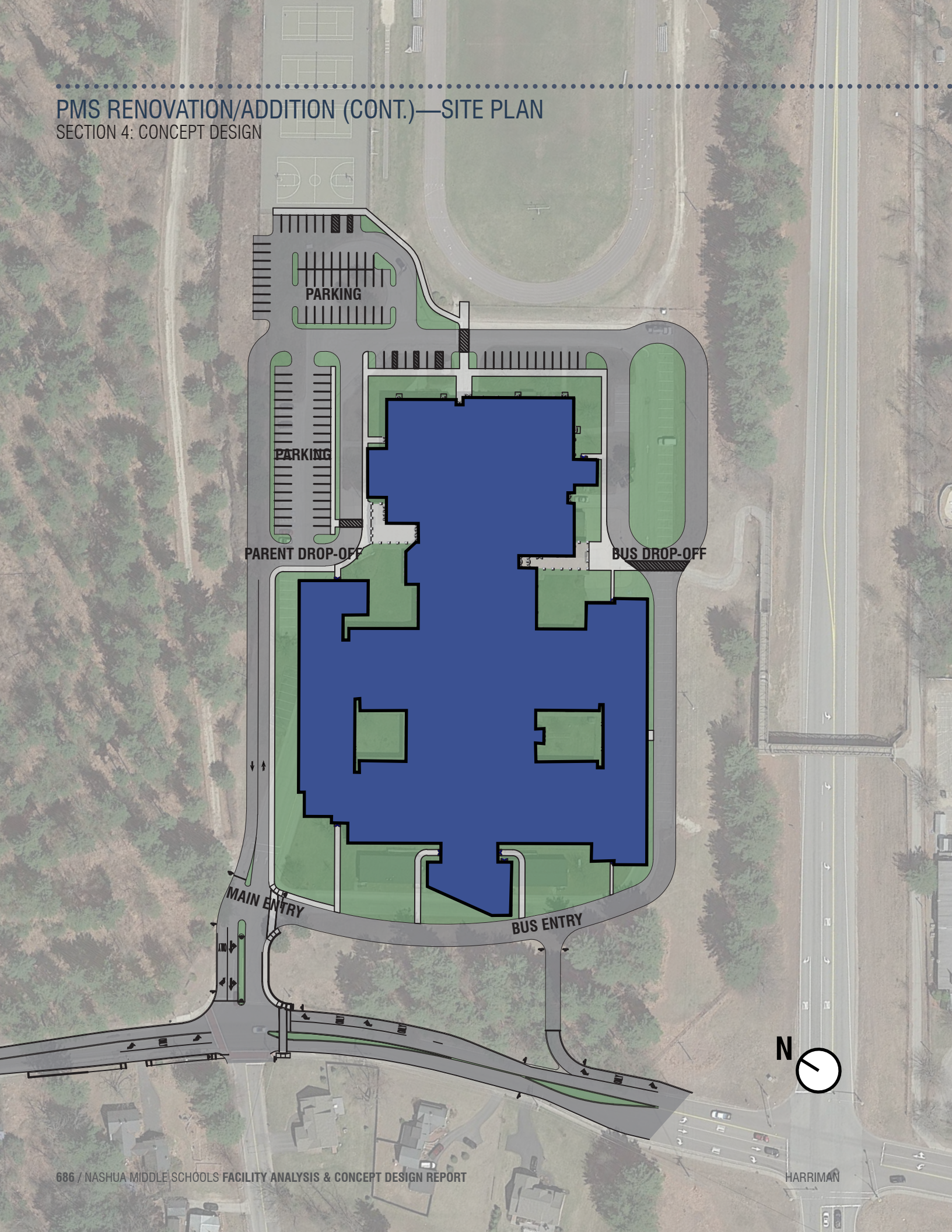
- / Traffic signal at Manchester/Ferry Road for improved site access
- / Additional site access point for emergency and bus entry
- / Dedicated turning lanes for entering and leaving the site
- / New parent drop-off and bus loops
- / Improved pedestrian street crossing
- / Additional parking spaces on site
- / Removal of portable classrooms

Interior

- / New classrooms additions to replace portables and increase school capacity
- / Library addition
- / New performance stage addition
- / Upgrades to unified arts rooms
- / Science room upgrades and improved accessibility
- / Team collaborative instruction spaces
- / Gymnasium upgrades
- / Cafeteria expansion and updates
- / Upgrades to special education rooms
- / Electric and boiler room addition
- / Building-wide air conditioning
- / Limited systems upgrades, including mechanical, electrical, and fire alarm systems

The concept design for Pennichuck Middle School does not necessarily address all facility deficiencies or concerns identified in *Section 2: Facility Analysis* of this report.

PMS RENOVATION/ADDITION (CONT.)—SITE PLAN
SECTION 4: CONCEPT DESIGN

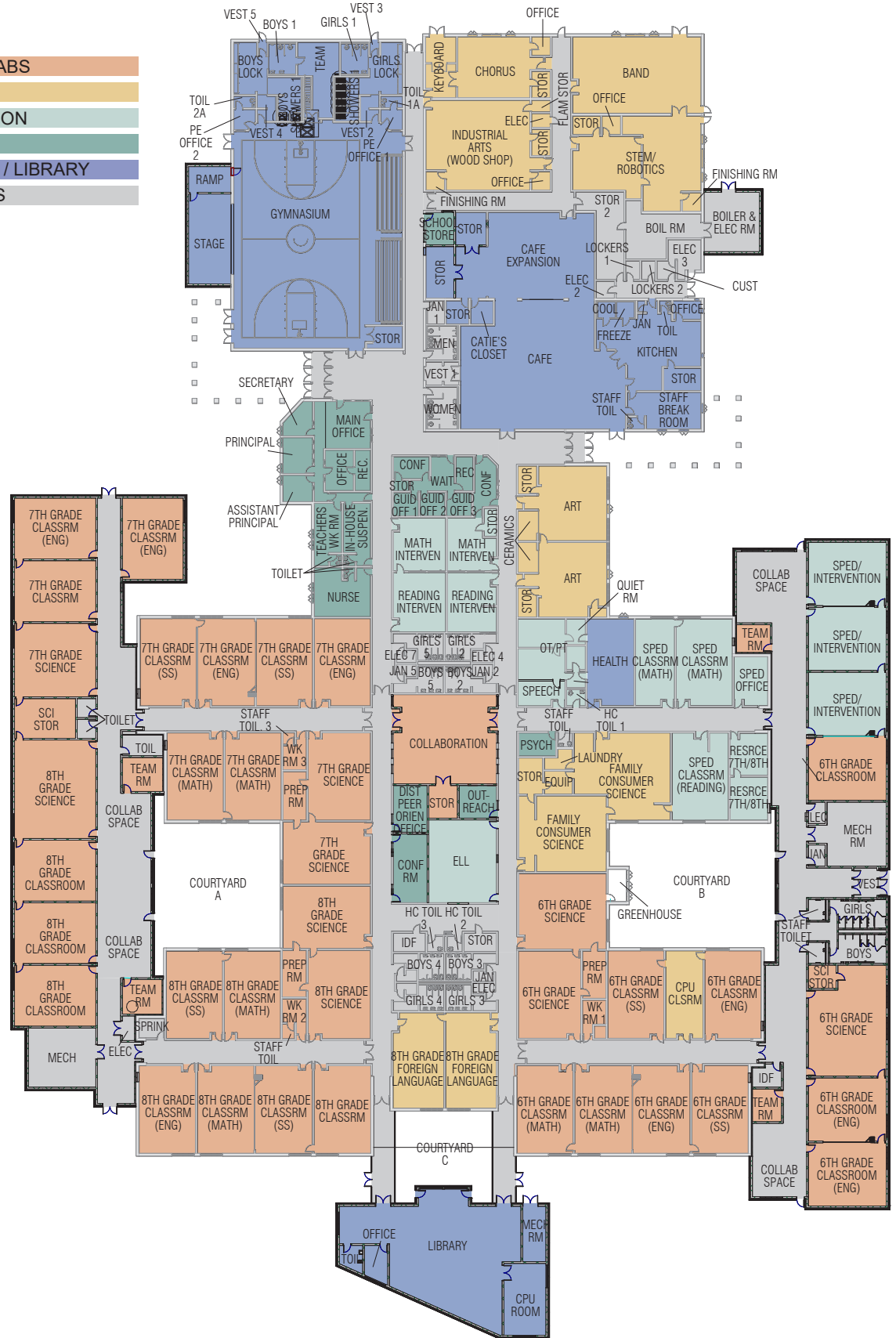


PMS RENOVATION/ADDITION (CONT.)—FLOOR PLAN

SECTION 4: CONCEPT DESIGN

LEGEND

- CLASSROOMS / LABS
- UNIFIED ARTS
- SPECIAL EDUCATION
- ADMINISTRATION
- GYM / CAFETERIA / LIBRARY
- SUPPORT SPACES



.....
PMS RENOVATION/ADDITION (CONT.)
SECTION 4: CONCEPT DESIGN

NEW NASHUA MIDDLE SCHOOL

SECTION 4: CONCEPT DESIGN

DESIGN NARRATIVE

The concept design for the New Nashua Middle School positions a welcoming and secure building on a City-owned plot of land at the south end of the City of Nashua. The proposed site consists of parking, play fields for athletics and recreational activities, natural site buffers from the neighboring residential communities and on-site natural learning opportunities.

The proposed building incorporates security and safety measures, while providing a warm and inviting entry. The ability to close off the public functions of the building allows for community use during evenings and weekends. Key components include an administration area, cafeteria, gymnasium, stage, and unified arts program facilities. The three-story classroom wing is broken into smaller learning communities. Each of the learning communities houses several classrooms wrapping around a team collaborative instructional space where groups of students and teachers can learn and work together.

Architectural Design Features

The following items highlight some of the design features proposed for the New Nashua Middle School.

Exterior

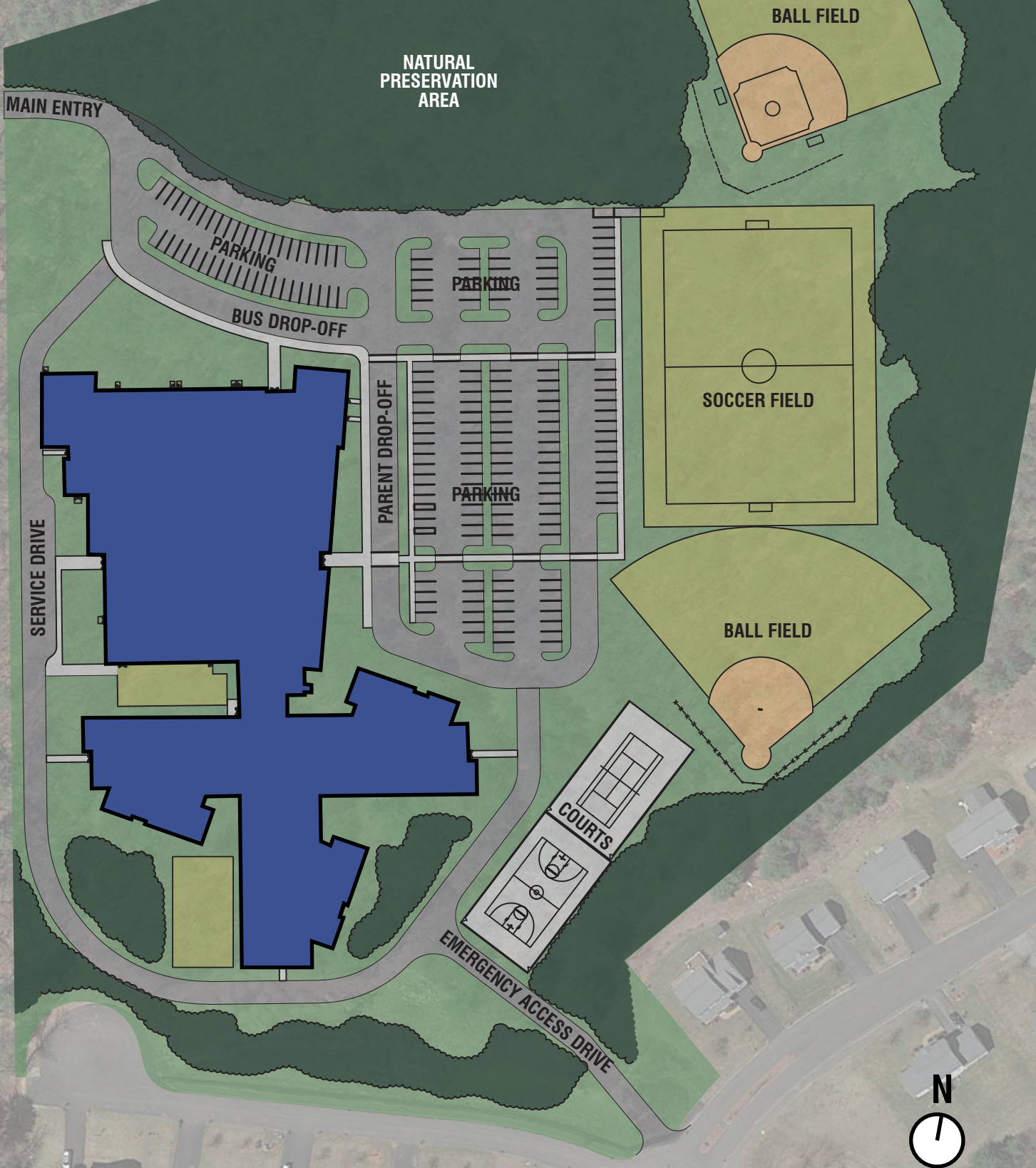
- / 20 acres site development
- / 150+ parking spaces
- / Three outdoor play fields and a running track
- / Outdoor tennis and basketball courts
- / District-wide special education outdoor play facility
- / Connection to outdoor trail system
- / Preservation of natural learning areas
- / Outdoor dining and learning opportunities
- / Access drive to Buckmeadow Drive
- / Emergency access drive to Cherrywood Drive
- / Perimeter safety and service drive
- / New three-phase power extended down Buckmeadow Drive to the site
- / New utility connections to Cherrywood Drive
- / Pedestrian walks to site from Buckmeadow Drive
- / New modern and energy-efficient building
- / Building air conditioning

- / Secure building access
- / Welcoming and secure main entrance

Interior

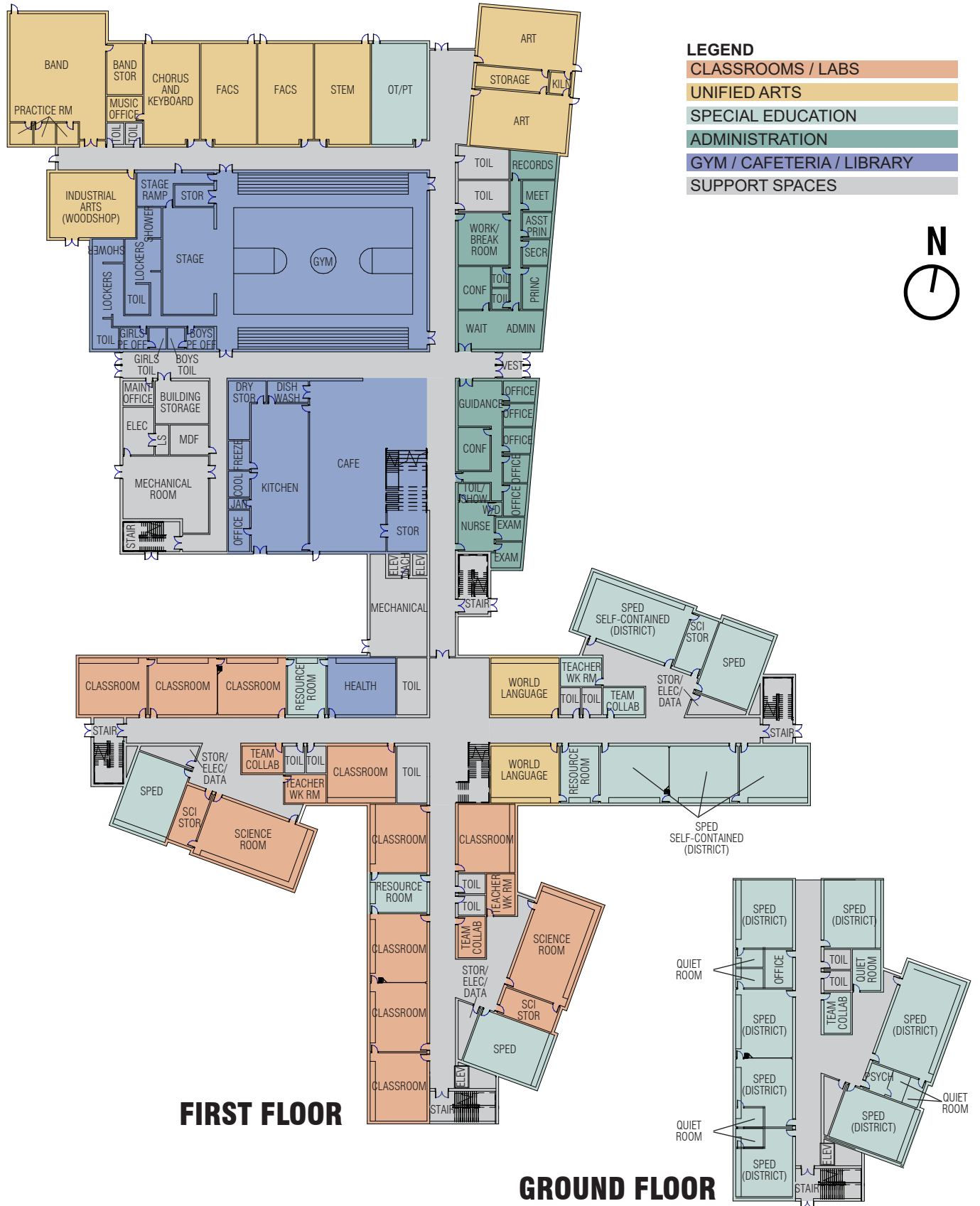
- / Innovative middle school classroom communities
- / Welcoming and secure entrance vestibule
- / Ability to close off public spaces for after school activities and community access
- / 21st century unified arts and STEM spaces
- / Enhanced SPED spaces
- / Modern gymnasium with access to stage
- / Multi-purpose space to accommodate recreation for smaller groups
- / Community eating and gathering space for social/emotional interactions
- / Proper accessibility
- / Ability to expand
- / Updated energy-efficient building
- / Modern and efficient mechanical systems
- / Code-compliant building

NEW NASHUA MIDDLE SCHOOL (CONT.)—SITE PLAN
SECTION 4: CONCEPT DESIGN



NEW NASHUA MIDDLE SCHOOL (CONT.)—GROUND AND FIRST FLOOR PLANS

SECTION 4: CONCEPT DESIGN



NEW NASHUA MIDDLE SCHOOL (CONT.)—SECOND FLOOR PLAN

SECTION 4: CONCEPT DESIGN

LEGEND

CLASSROOMS / LABS
UNIFIED ARTS
SPECIAL EDUCATION
ADMINISTRATION
GYM / CAFETERIA / LIBRARY
SUPPORT SPACES



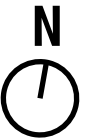
SECOND FLOOR

NEW NASHUA MIDDLE SCHOOL (CONT.)—THIRD FLOOR PLAN

SECTION 4: CONCEPT DESIGN

LEGEND

CLASSROOMS / LABS
UNIFIED ARTS
SPECIAL EDUCATION
ADMINISTRATION
GYM / CAFETERIA / LIBRARY
SUPPORT SPACES



THIRD FLOOR

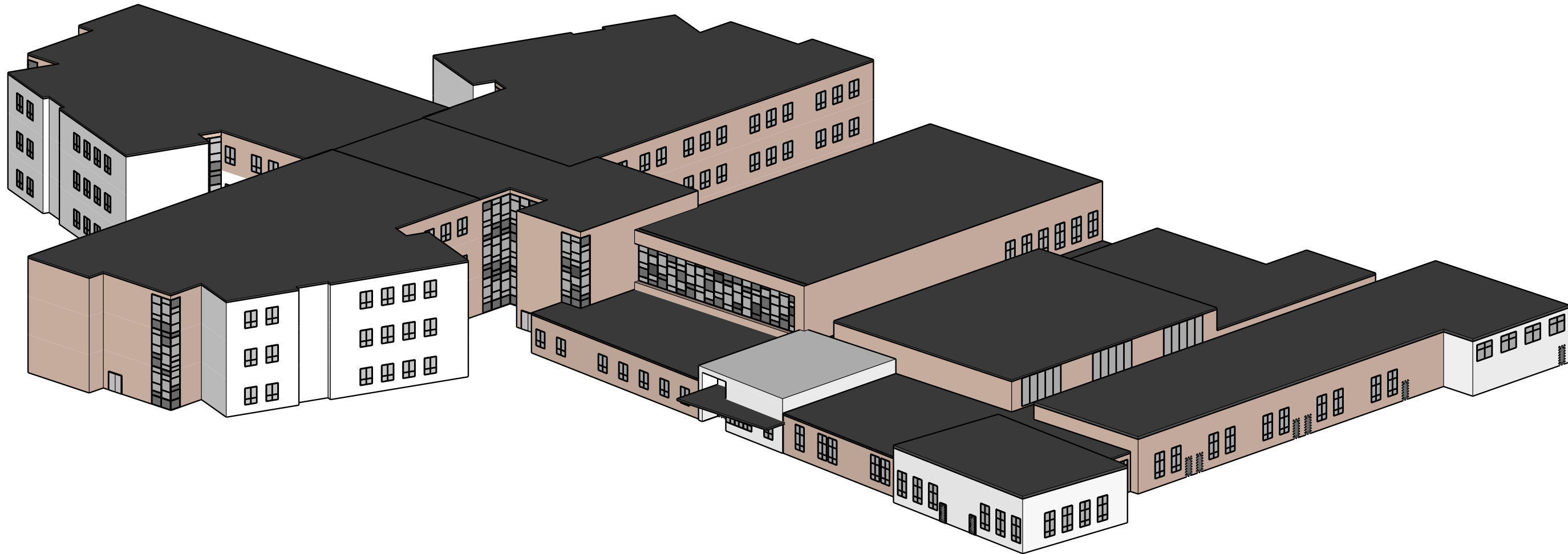
NEW NASHUA MIDDLE SCHOOL (CONT.)
SECTION 4: CONCEPT DESIGN

NEW NASHUA MIDDLE SCHOOL (CONT.)—ENTRY VIEW MASSING DIAGRAM
SECTION 4: CONCEPT DESIGN



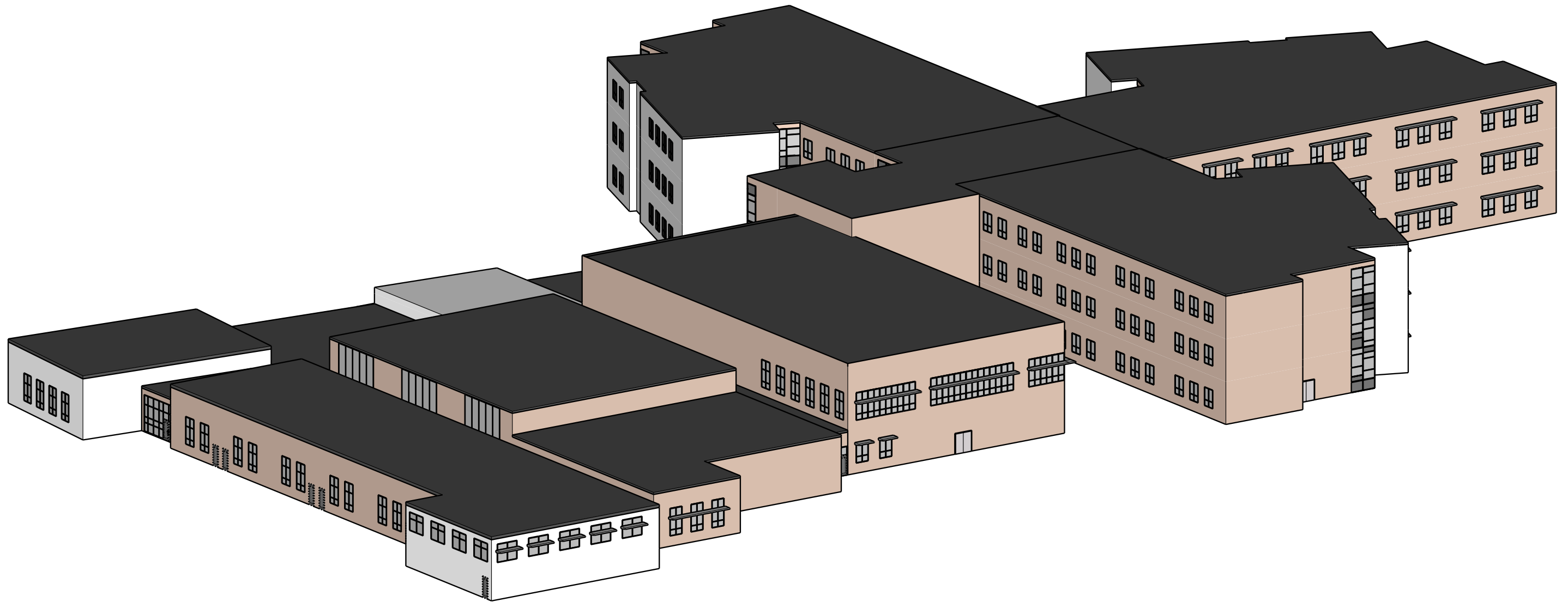
ENTRY VIEW

NEW NASHUA MIDDLE SCHOOL (CONT.)—FRONT VIEW MASSING DIAGRAM
SECTION 4: CONCEPT DESIGN



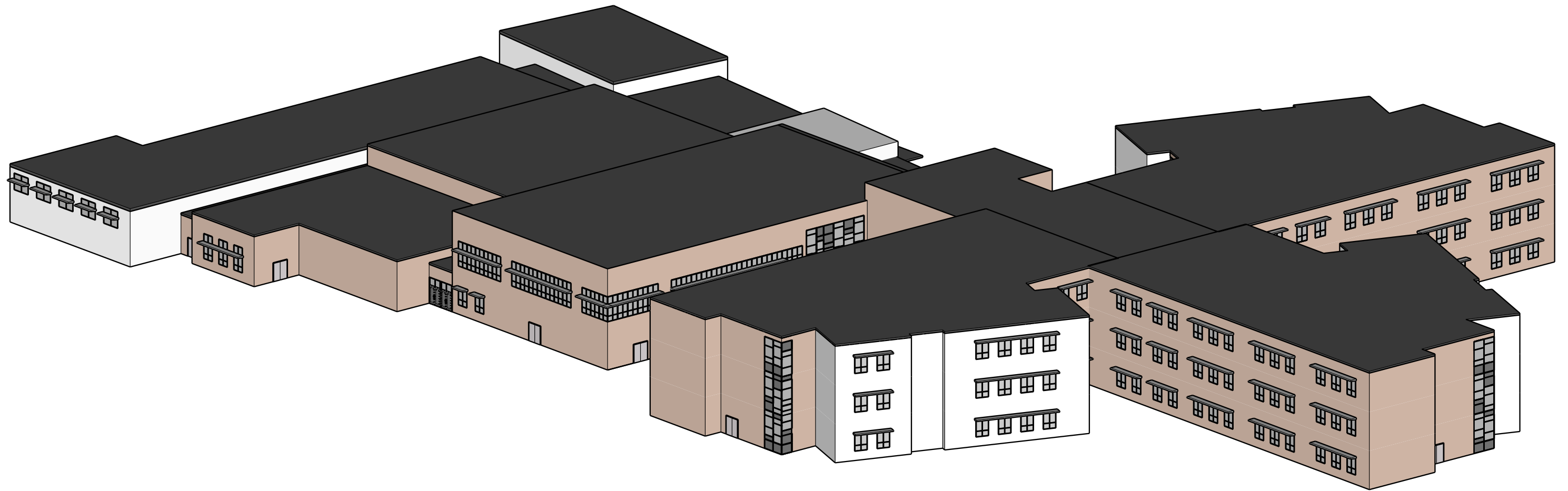
FRONT VIEW

NEW NASHUA MIDDLE SCHOOL (CONT.)—REAR VIEW MASSING DIAGRAM
SECTION 4: CONCEPT DESIGN



REAR VIEW

NEW NASHUA MIDDLE SCHOOL (CONT.)—WINGS VIEW MASSING DIAGRAM
SECTION 4: CONCEPT DESIGN



WINGS VIEW