

Presentation for

Nashua Middle School Staff Presentation

Architectural Design Services for Middle School Construction and/or Renovations

Nashua, New Hampshire

October 21, 2019









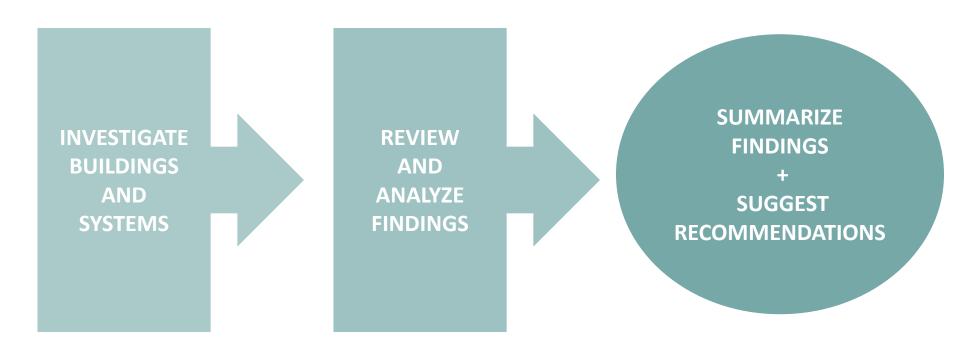
- 1. Objectives and Goals
- 2. Facility Analysis Overview
- 3. Programming Overview
- 4. Concept Design Overview

- 1. Address Deficiencies at Elm Street School
 - Option 1-Renovate Elm Street
 - Option 2-New Middle School
- 2. Review of Facility Conditions at all 3 Middle Schools
- 3. Evaluate a model for (3) 800+ Student Middle Schools
 - Special Education Spaces
 - Middle School Team Areas
 - Unified Arts
 - Safety and Security
 - Athletic/Phys Ed/Recreation Facilities
 - Core Space Capacity (Library, Cafeteria)
 - Site Circulation (Parent/Bus Drop-off, Parking)

OBJECTIVES and GOALS



BUILDING | SITE FACILITY ANALYSIS PROCESS





EXISTING FACILITY ANALYSIS

SUMMARY OF THE PROCESS

BUILDING | SITE COMPONENT DEFICIENCIES

ELM STREET MIDDLE SCHOOL

- Portable Classrooms
- No Athletic Fields
- Inadequate Parking
- Traffic And Pedestrian Safety Issues
- Accessibility Limited Throughout Building
- Aged Heating System & Poor Ventilation
- Classroom Electrical Capacity Limited







BUILDING | SITE COMPONENT DEFICIENCIES

FAIRGROUNDS MIDDLE SCHOOL

- Pedestrian Site Safety Issues
- Exterior Doors & Frames Rusted Through
- Accessibility Limited In Some Spaces
- Aged Power Distribution System
- Classroom Electrical Capacity Limited
- Access Control Limited







EXISTING FACILITY ANALYSIS

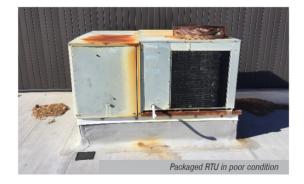
BUILDING | SITE COMPONENT DEFICIENCIES

PENNICHUCK MIDDLE SCHOOL

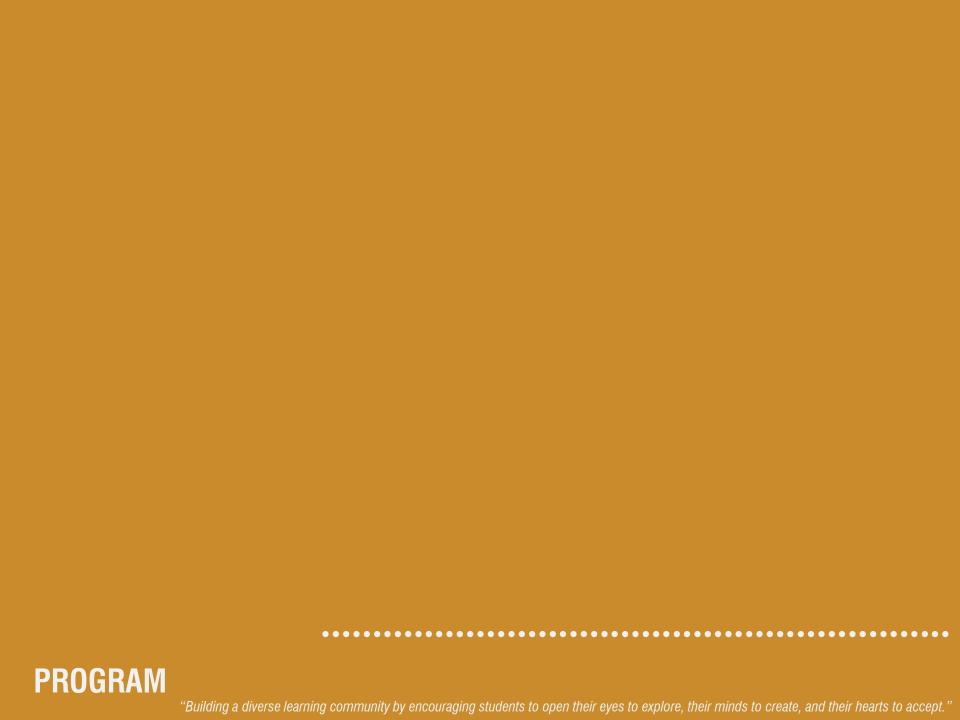
- Portable Classrooms
- Exterior Door And Frames Rusted Through
- Interior Finishes & Folding Partition
- Accessibility Limited In Some Spaces
- Aged Mechanical Units
- Access Control Limited
- Intercom Systems is Outdated







EXISTING FACILITY ANALYSIS SUMMARY OF EXISTING CONDITIONS - PENNICHUCK



PROGRAMMING PROCESS



PROGRAM

EDUCATION/PROGRAM NEEDS ASSESSMENT

SUMMARY OF THE PROCESS

SPACE ALLOCATIO	N SUMMARY / EXI	STING CONDITION	S	
	Elm Street Middle School	Fairgrounds Middle School	Pennichuck Middle School	Subtotal
FULL SIZE CLASSROOMS	48	32	28	108
SPECIAL EDUCATION (SPED)				
SPED Self Contained (Intensive Needs)	0	2	1	3
SPED District Programs	10	3	1	14
Intervention (Resource)	4	6	4	14
SPED Rooms	4	2	6	12
OT/PT	1	1	1	3
Speech	1	0	1	2
ELL	2	1	1	4
UNIFIED ARTS				
Robotics / STEM	1	1	0	2
Industrial Arts / Woodworking	1	2	2	Ę
Family Consumer Science (FCS)	2	2	2	(
Band	1	1	1	3
Chorus / Keyboard	1	1	1	3
Computer	4	1	1	(
Art	2	2	2	(
World Language	2	2	2	(
Drafting / Engineering	1	0	1	
TEAM COLLABORATION	0	3	0	3
HEALTH CLASSROOM	1	0	0	1
CAPACITY				
Regular Education Classrooms (excludes SPED spaces)	48	32	28	10
Capacity (22-25)	1,056	768	644	2,46
SPED Capacity	140	70	80	290
Total Capacity	1,196	838	724	2,75
Current Enrollment	1,093	695	627	2,41
DELTA	103	143	97	34

EDUCATION/PROGRAM NEEDS ASSESSMENT

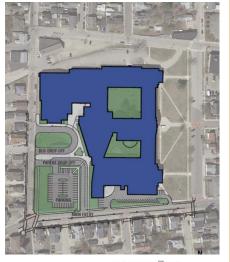
SUMMARY OF EXISTING SPACES

SUMMARY OF EXISTING SPACE UTILIZATION					
	Elm Street Middle School	Fairgrounds Middle School	Pennichuck Middle School	Subtotals	
Calculated Capacity					
Full Size Education Classrooms (Excludes SPED spaces)	48	32	28	108	
Capacity (Using 22-25 students/classroom)	1,056	768	644	2,468	
SPED Classroom	140	70	80	290	
Total Calculated Capacity	1,196	838	724	2,758	
Current Enrollment	1,093	695	627	2,415	
Delta (Additional Capacity)	103	143	97	343	

EDUCATION/PROGRAM NEEDS ASSESSMENT SUMMARY OF EXISTING SPACE UTILIZATION

PROPOSED OPTION #1 SUMMARY

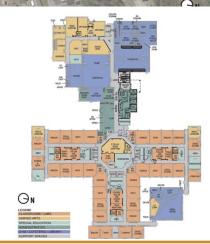
ELM STREET MIDDLE SCHOOL RENOVATIONS AND ADDITIONS





FAIRGROUNDS MIDDLE SCHOOL

RENOVATIONS AND ADDITION



PENNICHUCK MIDDLE SCHOOL RENOVATIONS AND ADDITIONS





EDUCATION/PROGRAM NEEDS ASSESSMENT

OPTION #1 SUMMARY

SPACE ALLOCATION SUMMARY / PROPOSED OPTION #1				
	Elm Street Middle School	Fairgrounds Middle School	Pennichuck Middle School	Subtotal
FULL SIZE CLASSROOMS	33	32	36	101
SPECIAL EDUCATION (SPED)				
SPED Self Contained (Intensive Needs)	3	0	0	3
SPED District Programs	14	0	0	14
Intervention (Resource)	4	6	7	17
SPED Rooms	4	5	6	15
OT / PT	1	1	1	3
Speech	1	1	1	3
ELL	1	1	1	3
UNIFIED ARTS				0
Robotics / STEM	1	1	1	3
Industrial Arts / Woodworking	1	1	1	3
Family Consumer Science (FCS)	2	2	2	6
Band	1	1	1	3
Chorus / Keyboard	1	1	1	3
Computer	1	1	1	3
Art	2	2	2	6
World Language	2	2	2	6
Drafting / Engineering	0	0	0	0
TEAM COLLABORATION	9	3	4	16
HEALTH CLASSROOM	1	1	1	3
CAPACITY				
Regular Education Classrooms (excludes SPED spaces)	33	32	36	101
Capacity (22-25)	825	768	828	2,421
SPED Capacity	210	50	60	320
Total Calculated Capacity	1,035	818	888	2,741
Current Enrollment	815	800	800	2,415
DELTA	220	18	88	326

EDUCATION/PROGRAM NEEDS ASSESSMENT

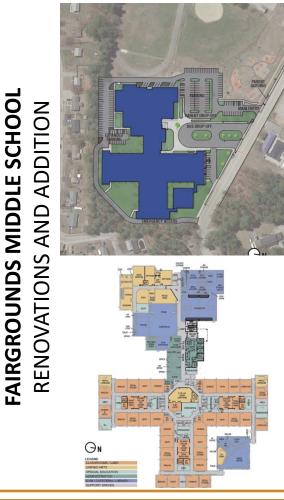
SUMMARY OF PROPOSED SPACES

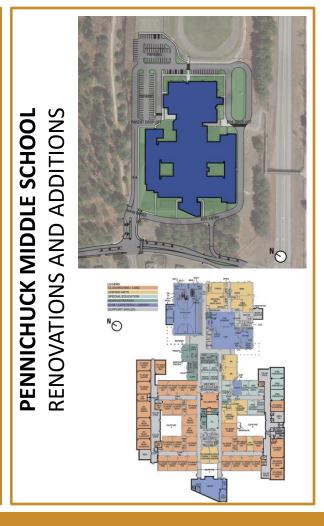
SUMMARY OF PROPOSED OPTION #1 SPACE UTILIZATION				
	Elm Street Middle School	Fairgrounds Middle School	Pennichuck Middle School	Subtotals
Calculated Capacity				
Full Size Education Classrooms (Excludes SPED spaces)	33	32	36	101
Capacity (Using 22-25 students/classroom)	825	768	828	2,421
SPED Classroom	210	50	60	320
Total Calculated Capacity	1,035	818	888	2,741
Proposed Enrollments	815	800	800	2,415
Delta (Additional Capacity)	220	18	88	326

EDUCATION/PROGRAM NEEDS ASSESSMENT SUMMARY OF PROPOSED SPACE UTILIZATION

PROPOSED OPTION #2 SUMMARY







EDUCATION/PROGRAM NEEDS ASSESSMENT

OPTION #2 SUMMARY

SPACE ALLOCATION SUMMARY / PROPOSED OPTION #2				
	New Nashua Middle School	Fairgrounds Middle School	Pennichuck Middle School	Subtotal
FULL SIZE CLASSROOMS	34	32	36	102
SPECIAL EDUCATION (SPED)				
SPED Self Contained (Intensive Needs)	4	0	0	4
SPED District Programs	14	0	0	14
Intervention (Resource)	6	6	7	19
SPED Rooms	6	5	6	17
OT / PT	1	1	1	3
Speech	1	1	1	3
ELL	1	1	1	3
UNIFIED ARTS				0
Robotics / STEM	1	1	1	3
Industrial Arts / Woodworking	1	1	1	3
Family Consumer Science (FCS)	2	2	2	6
Band	1	1	1	3
Chorus / Keyboard	1	1	1	3
Computer	1	1	1	3
Art	2	2	2	6
World Language	2	2	2	6
Drafting / Engineering	0	0	0	0
TEAM COLLABORATION	9	3	4	16
HEALTH CLASSROOM	1	1	1	3
CAPACITY				
Regular Education Classrooms (excludes SPED spaces)	34	32	36	102
Capacity (22-25)	850	768	828	2,446
SPED Capacity	240	30	60	330
Total Calculated Capacity	1,090	798	888	2,776
Current Enrollment	815	800	800	2,415
DELTA	275	-2	88	361

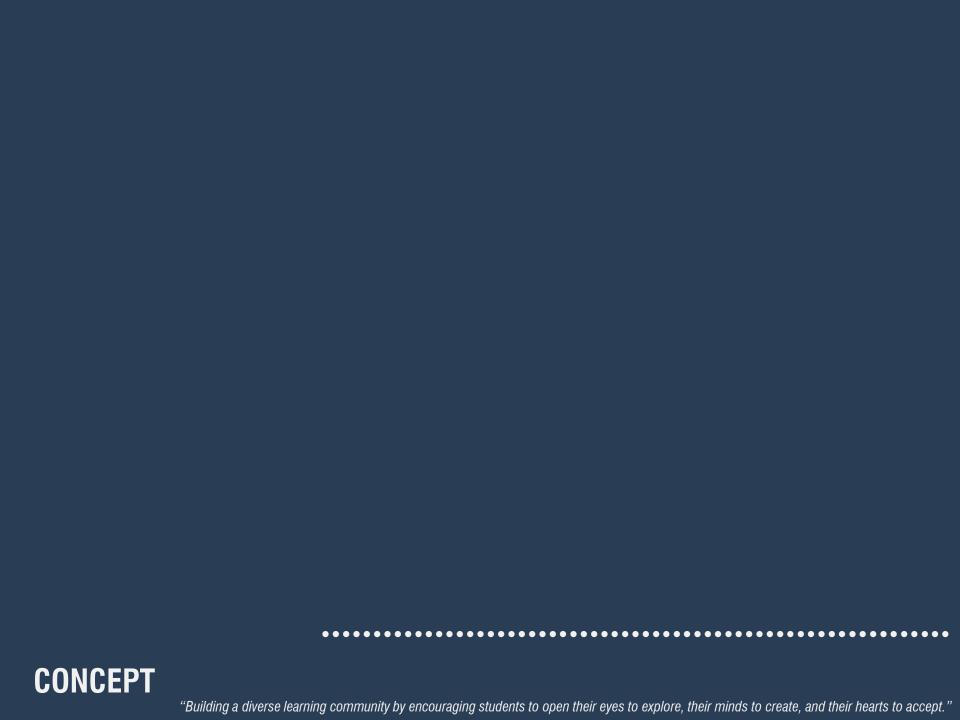
EDUCATION/PROGRAM NEEDS ASSESSMENT

SUMMARY OF PROPOSED SPACES

SUMMARY OF PROPOSED OPTION #2 SPACE UTILIZATION				
	New Middle School	Fairgrounds Middle School	Pennichuck Middle School	Subtotals
Calculated Capacity				
Full Size Education Classrooms (Excludes SPED spaces)	34	32	36	102
Capacity (Using 22-25 students/classroom)	850	768	828	2,446
SPED Classroom	240	50	60	350
Total Calculated Capacity	1,090	818	888	2,796
Proposed Enrollments	815	800	800	2,415
Delta (Additional Capacity)	275	18	88	381

EDUCATION/PROGRAM NEEDS ASSESSMENT SUMMARY OF PROPOSED SPACE UTILIZATION

- 1. SPED-Bridges/Project Achievement stay at Elm St or New MS
- 2. Capacity of Renovated Elm and New MS are nearly the same
 - Calculated Capacity: 1050
 - Proposed Enrollment: 815
- 3. Fairgrounds
 - Calculated Capacity: 818
 - Proposed Enrollment: 800
- 4. Pennichuck
 - Calculated Capacity: 888
 - Proposed Enrollment: 800
- 5. All Middle Schools have the same UA programs
- 6. All Middle Schools have team areas



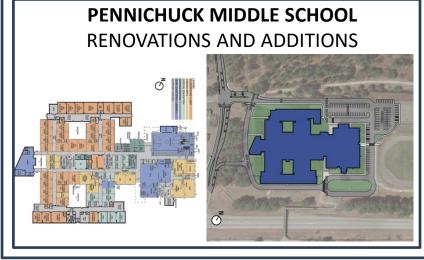
OPTIONS OVERVIEW

AND



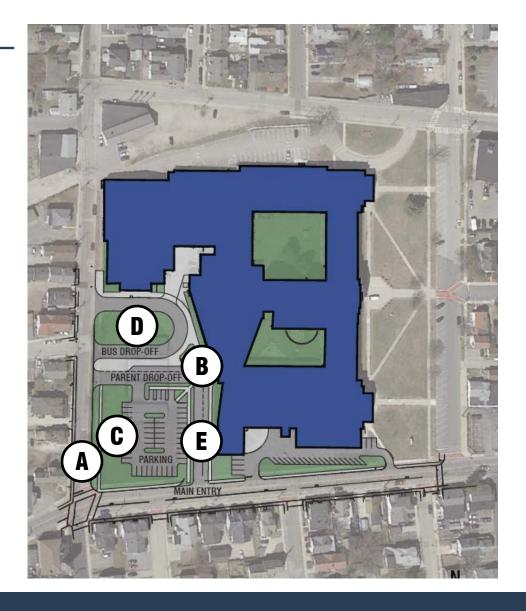




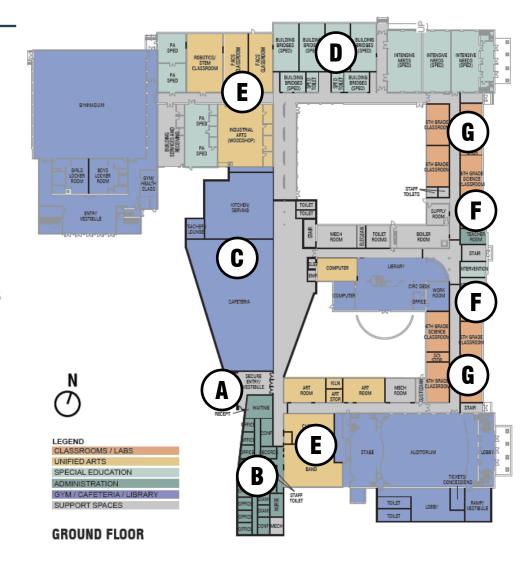


CONCEPT OPTIONS OVERVIEW

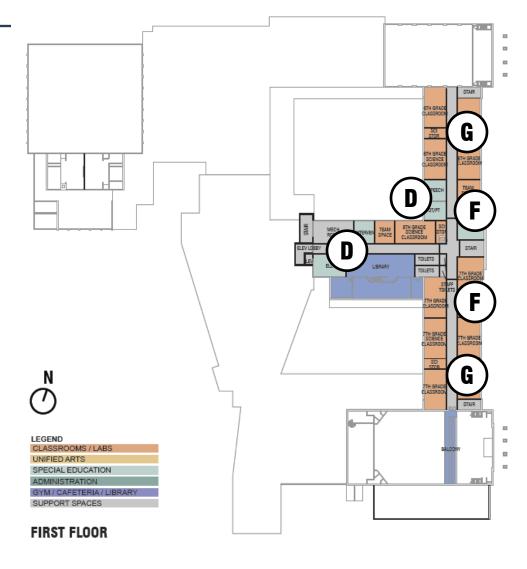
- A. Removal of portables
- B. Single secure entrance location
- C. Additional off-street parking
- D. Reconfigured Drop-off at Entry Bus Loop
- E. On-site dedicated parent drop lane



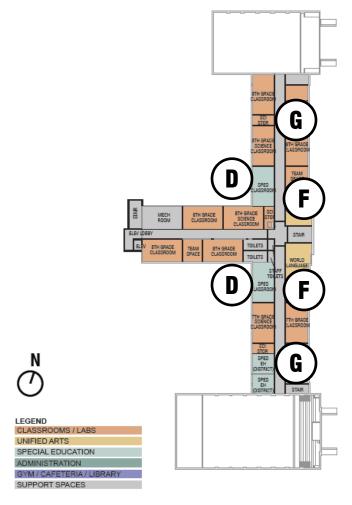
- A. Secure Entrance
- B. New relocated Administration Area
- C. New Cafeteria / Kitchen
- D. Updated SPED Classrooms
- E. Modified / Updated UA Classrooms
- F. Team Collaborative Instruction Spaces
- G. Resized Classroom spaces



- A. Secure Entrance
- B. New relocated Administration Area
- C. New Cafeteria / Kitchen
- D. Updated SPED Classrooms
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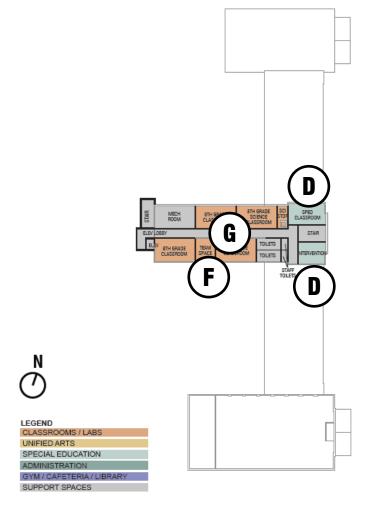
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SECOND FLOOR

CONCEPT OPTIONS ELM STREET MIDDLE SCHOOL

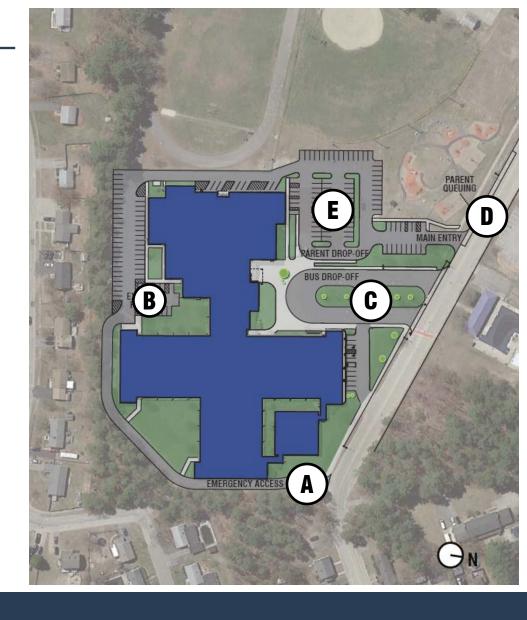
- A. Secure Entrance
- B. New relocated Administration Area
- C. New Cafeteria / Kitchen
- D. Updated SPED Classrooms
- E. Modified / Updated UA Classrooms
- F. Team Collaborative Instruction Spaces
- G. Resized Classroom spaces



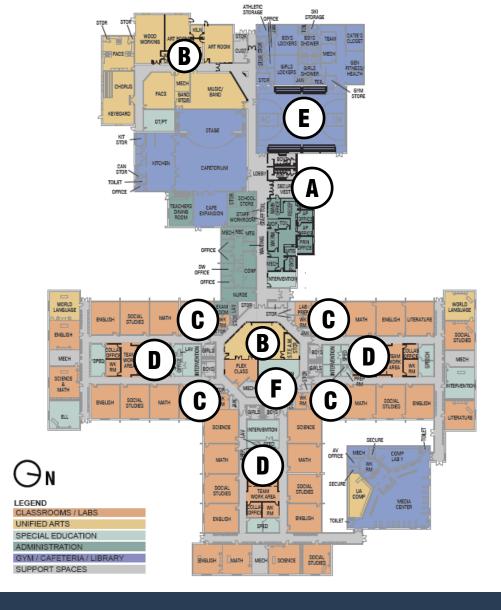
THIRD FLOOR

CONCEPT OPTIONS ELM STREET MIDDLE SCHOOL

- A. Perimeter Security Drive Upgraded
- B. Additional Parking on South Side
- C. Reconfigured Drop-off at Entry/Expanded Bus Loop
- D. On Street Queuing Lane
- E. Reconfigured Parking at Entry Lot

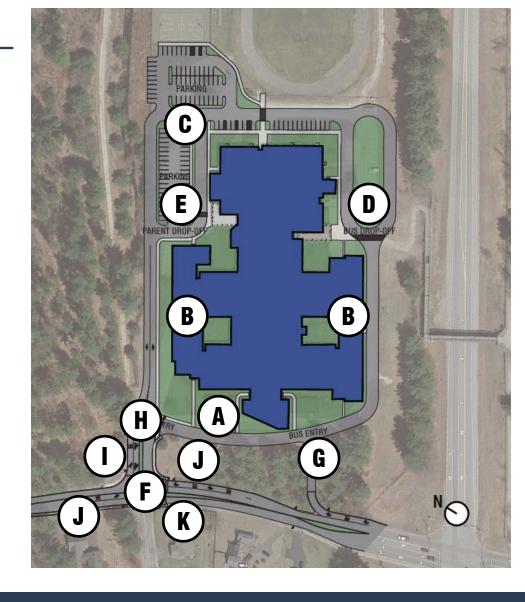


- A. New Admin and Secure Entrance
- B. Upgrades to Unified Arts
- C. Science Room Upgrades
- D. Team Collaborative Instruction Spaces
- E. Gymnasium Upgrades
- F. Upgrades to Special Education Rooms
- G. Limited System Upgrades (Electrical / Mechanical / Fire Alarm)



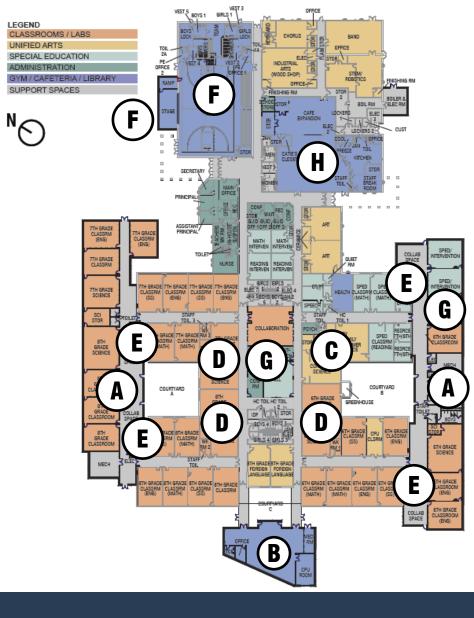
CONCEPT OPTIONS FAIRGROUNDS MIDDLE SCHOOL

- A. Removal of Portable Classrooms
- B. Classroom Additions
- C. Reconfigured Parking
- D. New Bus Drop-off
- E. New Parent Drop-off
- F. Traffic Signal at Manchester/Ferry Road
- G. Additional Entry for Buses/Emergency Access
- H. Separation Median at Entry
- I. Right and Left Exit Lane
- J. Entry Turning Lane on Manchester
- K. Improved Pedestrian Crossing

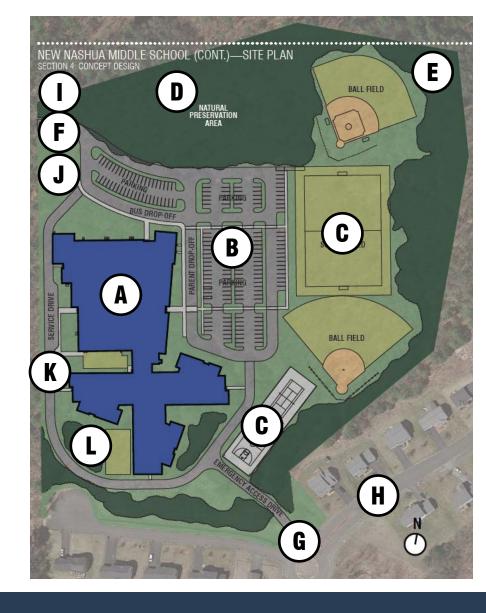


CONCEPT OPTIONS PENNICHUCK MIDDLE SCHOOL

- A. Classroom Additions to Replace Portables, Increase Capacity
- B. Library Addition
- C. Upgrades to Unified Arts
- D. Science Room Upgrades
- E. Team Collaborative Instruction Spaces
- F. Gymnasium Upgrades, Stage addition
- G. Upgrades to Special Education Rooms
- H. Cafeteria expansion

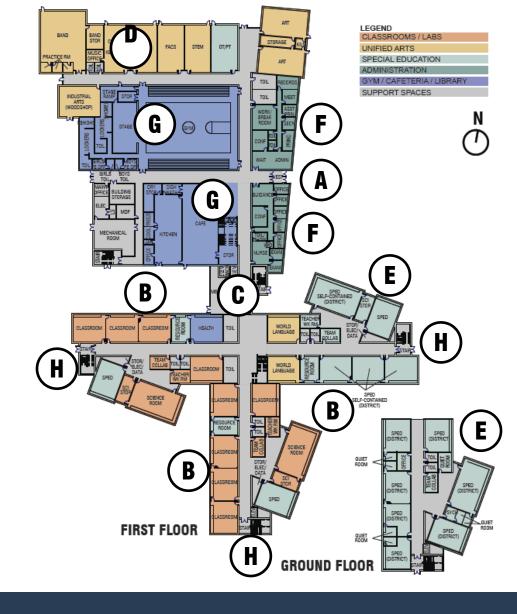


- A. 20 Acre Site Development
- B. On site Parking Spaces
- C. Recreational Play fields and Courts
- D. Natural Preservation Area
- E. Connection to Trail Network
- F. Access Drive from Buckmeadow
- G. Emergency Access from Cherrywood
- H. Water/Sewer from Cherrywood
- I. New upgraded power from Buckmeadow
- J. Sidewalk to site from Buckmeadow
- K. Dedicated Service and Emergency Drive
- L. Dedicated safe SPED play area



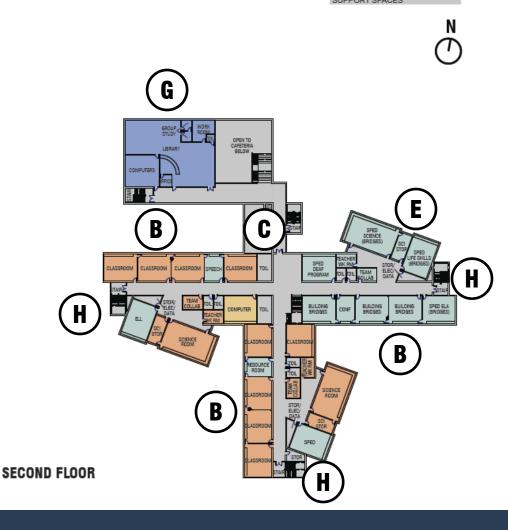
CONCEPT OPTIONS NEW MIDDLE SCHOOL

- A. Secure Entrance
- B. Innovative MS Classroom Communities
- C. Ability to Close off Public Spaces for After School Activities/Community Access
- D. 21st Century Unified Arts/STEM Spaces
- E. Enhanced SPED spaces
- F. Administration, Nurse, Guidance
- G. Gym, Performance space, Café, Library
- H. Possible Future Addition Locations



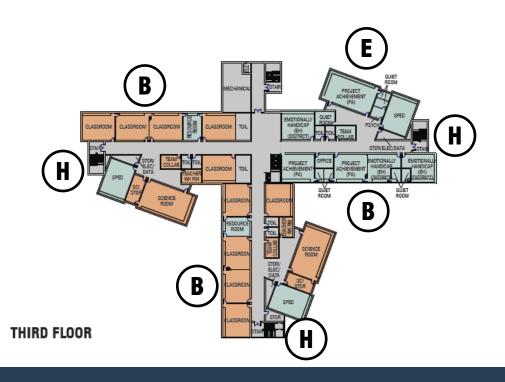
CLASSROOMS / LABS
UNIFIED ARTS
SPECIAL EDUCATION
ADMINISTRATION
GYM / CAFETERIA / LIBRARY

- A. Secure Entrance
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- C. Ability to Close off Public Spaces for After School Activities/Community Access
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- E. Enhanced SPED spaces
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- G. Gym, Performance space, Café, Library
- H. Possible Future Addition Locations





ELM STREET MIDDLE SCHOOL

- Anticipated Construction Start Winter 2021
- Anticipated Construction Duration 48 Months

FAIRGROUNDS MIDDLE SCHOOL

- Anticipated Construction Start Summer 2020
- Anticipated Construction Duration 11 Months

PENNICHUCK MIDDLE SCHOOL

- Anticipated Construction Start Summer 2020
- Anticipated Construction Duration 14 Months

NEW MIDDLE SCHOOL

- Anticipated Construction Start Winter 2021 (Partial Site Clearing Spring 2020)
- Anticipated Construction Duration 24 Months

HARRIMAN







