Frankin Elementary School

NEWTON, MA

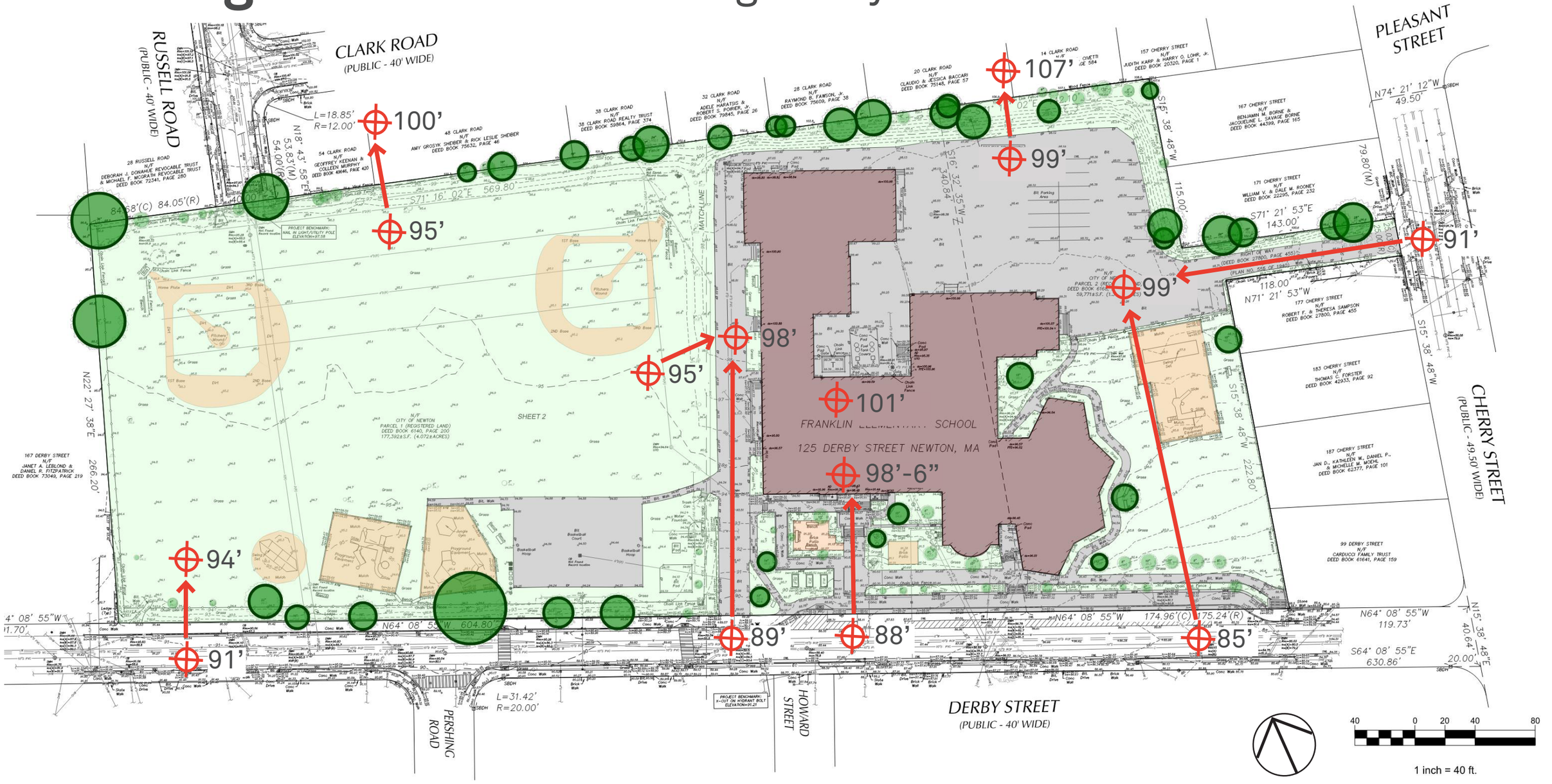
Design Review Committee

December 13, 2023

HMFH ARCHITECTS

Existing Site Plan

Grading Study

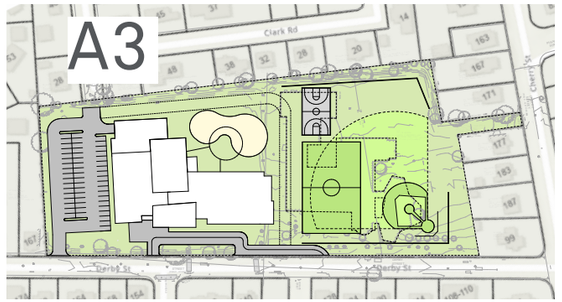


Feasibility Studies Matrix

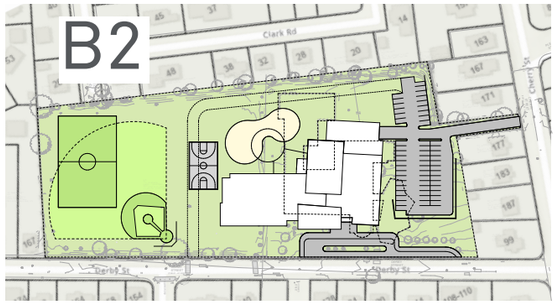
HMFH

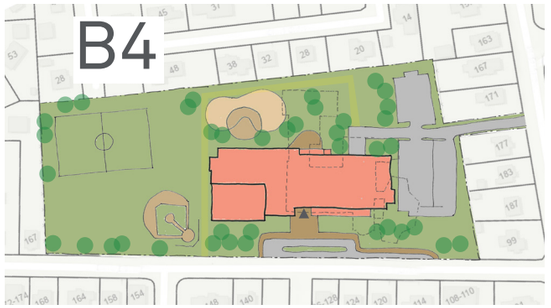
Add/ Reno

New on fields



New on existing





Community Matrix Results

A2 scores highest of the 8 options reviewed because it maximizes:

- Accessibility
  - minimum elevation change from Derby St.
- Green Space
  - maximizes contiguous green space
- Safe Pedestrian and Bicycle Circulation
  - converts Cherry St. connection to pedestrian and bicycle only
- Cost
  - is the most efficient design concept
- Sustainability
  - efficient design & limited earthwork = lowest embodied carbon
- Bus Drop-off and Blue Zone
  - efficiently separates buses, vans an parent cars and provides optimal space for each

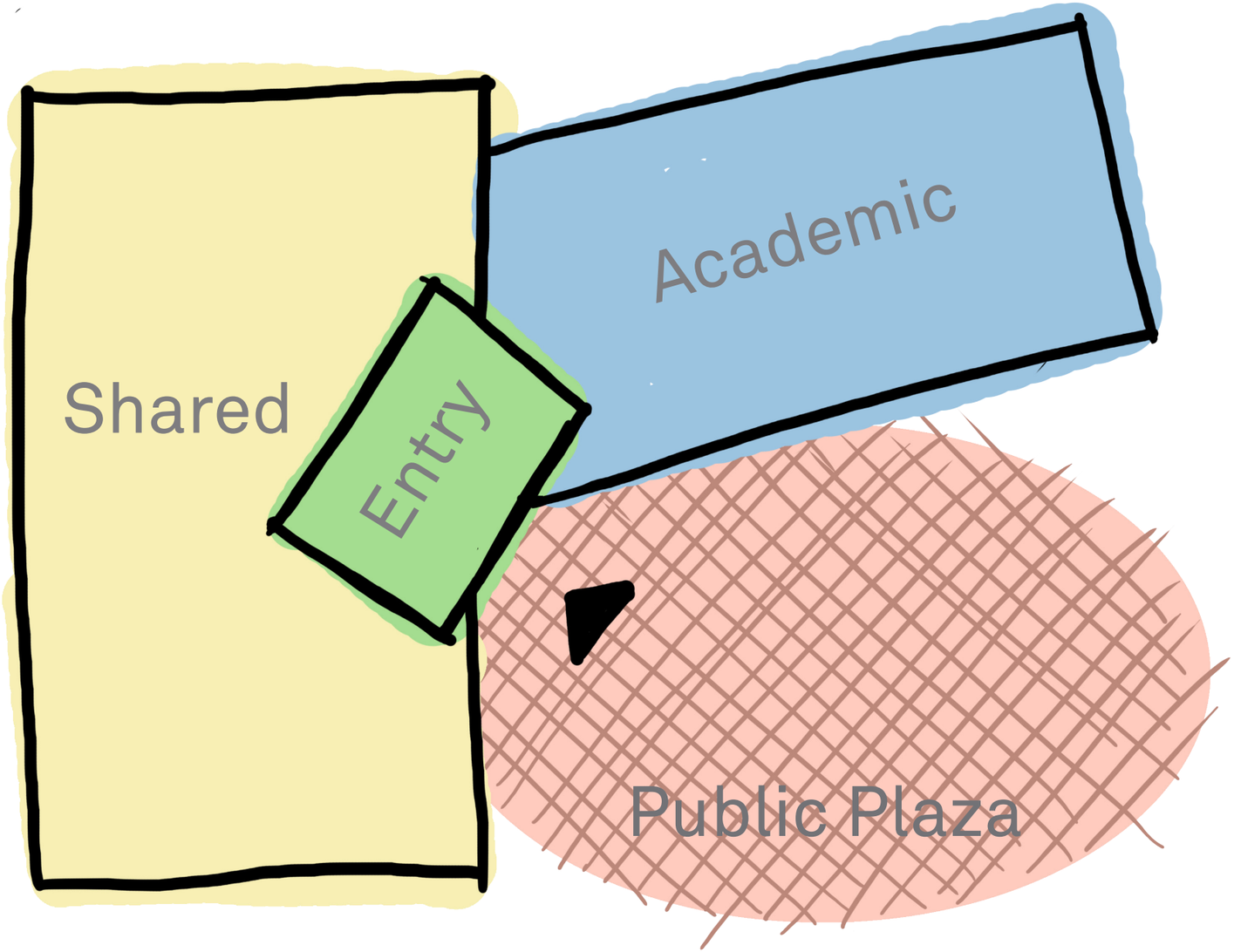
FRANKLIN ELEMENTARY SCHOOL

● Favorable ◑ Neutral ○ Unfavorable

UPDATED 9/13/23	1 ADD/RENO C1	2 ADD/RENO C2	3 ADD/RENO C3	4 ADD/RENO C4	5 NEW CONST A1	6 NEW CONST A2	7 NEW CONST B1	8 NEW CONST B2
BUILDING EVALUATION CRITERIA MATRIX								
Building and Site Facts								
1 Student design enrollment	396-414	396-414	396-414	396-414	396-414	396-414	396-414	396-414
2 Size of site (acres)	5.45	5.45	5.45	5.45	5.45	5.45	5.45	5.45
3 Classroom count	18	18	18	18	18	18	18	18
4 District wide special education classrooms	2	2	2	2	2	2	2	2
5 Building Gross Floor Area (SF)	72,985	71,221	73,662	73,390	69,998	69,998	70,235	69,998
6 Sitework estimated area of improvements (SF)	204,720	187,996	194,782	195,361	199,176	199,176	198,084	199,202
Cost and Schedule								
1 Project Cost, $million (Project Budget: $61M)	○	○	○	○	●	●	◑	◑
2 Allows students to move in to new school 2027	○	○	○	○	●	●	○	○
3 Maintains standard site plan approval schedule	○	○	●	○	○	●	●	●
Educational								
1 Meets educational program for all students (prereq.)	●	●	●	●	●	●	●	●
2 Meets space program (prereq.)	●	●	●	●	●	●	●	●
3 Optimizes flexibility for future growth	○	◑	◑	◑	●	●	●	●
4 Provides flexibility for educational innovations	◑	◑	◑	◑	●	●	●	●
5 Optimizes configuration and adjacency of teaching spaces	◑	◑	◑	◑	●	●	●	●
6 Allows for efficient program design layout	◑	○	◑	◑	●	●	●	●
Community								
1 Provides access and control to community used spaces	○	●	●	◑	◑	◑	●	◑
2 Optimizes the extended day program	◑	●	●	●	●	●	●	●
3 Allows students to remain in existing school throughout construction	○	○	○	○	●	●	○	○
4 Enhances community green space and playground	●	○	○	●	●	●	○	○
Building								
1 Meets current building codes (prereq.)	●	●	●	●	●	●	●	●
2 Meets MAAB/ADA requirements (prereq.)	●	●	●	●	●	●	●	●
3 Meets healthy building environment (prereq.)	●	●	●	●	●	●	●	●
4 Meets hazardous material remedial requirements (prereq.)	●	●	●	●	●	●	●	●
5 Allows for a contextually sensitive design	●	○	○	◑	◑	◑	◑	◑
6 Optimizes use of natural light and daylighting	○	●	●	●	●	●	●	●
7 Optimizes connection of outdoor/indoor space, integration with site	●	●	○	●	◑	◑	◑	●
8 Allows for efficient building design	◑	◑	◑	◑	●	●	●	●
Site								
1 Meets environmental remedial requirements (prereq.)	●	●	●	●	●	●	●	●
2 Optimizes stormwater resiliency	●	◑	◑	◑	◑	●	◑	●
3 Maximizes efficient utilization of site	◑	○	○	◑	●	●	◑	●
4 Optimizes outdoor program space and green space	◑	○	○	◑	●	●	◑	●
5 Provides for site maintenance access and circulation.	●	○	●	○	●	●	●	●
6 Optimizes safety and efficiency of on-site bus and van drop off	◑	◑	◑	◑	●	●	◑	◑
7 Separates safe circulation of bus, vehicle, pedestrian and bike access	◑	◑	◑	◑	◑	●	◑	◑
8 Provides sufficient parking for teachers, staff + visitors	●	●	●	●	●	●	●	●
9 Minimizes off site traffic and on-street parking impact	◑	◑	◑	◑	◑	◑	◑	◑
10 Optimizes site for safe pedestrian and bike access	◑	◑	◑	◑	◑	●	◑	◑
11 Optimizes for future expansion	○	◑	◑	◑	●	●	●	●
12 Meets MAAB/ADA requirements efficiently on the site	○	○	○	○	●	●	●	◑
Sustainability								
1 Minimizes embodied carbon footprint	◑	◑	◑	◑	◑	◑	◑	◑
2 Achieves City goal for fossil fuel free building HVAC systems	●	●	●	●	●	●	●	●
3 Optimizes solar opportunities	◑	◑	◑	◑	●	◑	◑	◑
4 Allows efficient attainment of Green School/Stretch Code requireme	◑	◑	◑	◑	●	●	●	●
5 Optimizes building envelope thermal performance	◑	◑	◑	◑	●	●	●	●
6 Allows for a geothermal well field without the need for phasing	●	●	●	●	○	●	●	●

	1 ADD/RENO	2 ADD/RENO	3 ADD/RENO	4 ADD/RENO	5 NEW CONST	6 NEW CONST	7 NEW CONST	8 NEW CONST
Favorable (1) ●	15	14	15	14	29	33	24	26
Neutral (0) ◑	15	14	15	19	8	6	12	10
Unfavorable (-1) ○	9	11	9	6	2	0	3	3
Calculated Results	6	3	6	8	27	33	21	23

Franklin Parti



Parti (*noun*)

the general scheme of an architectural design.

Site Option A2

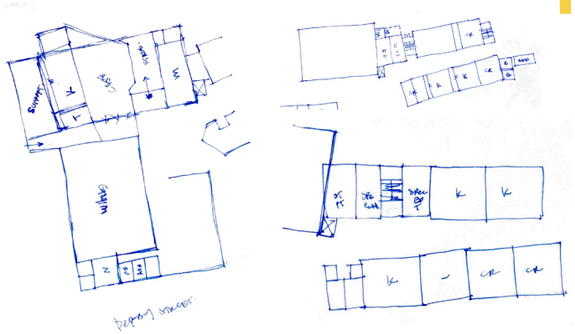
Progress on Plan Layouts

Start of FS

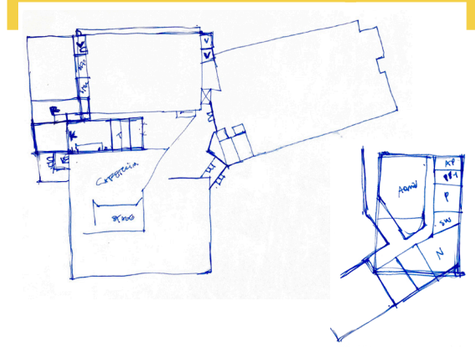
Flip Plan

Reduce SF

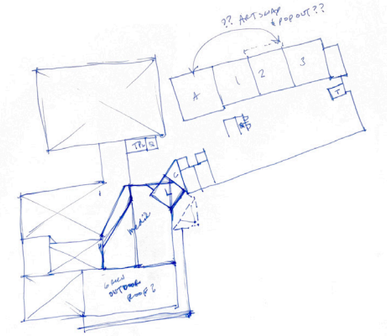
2023 July Aug Sept



Program Shift Study



Admin Study



Art Shift Study

Progress on Plan Layouts

Tighten Plan

Develop Acad. Wing

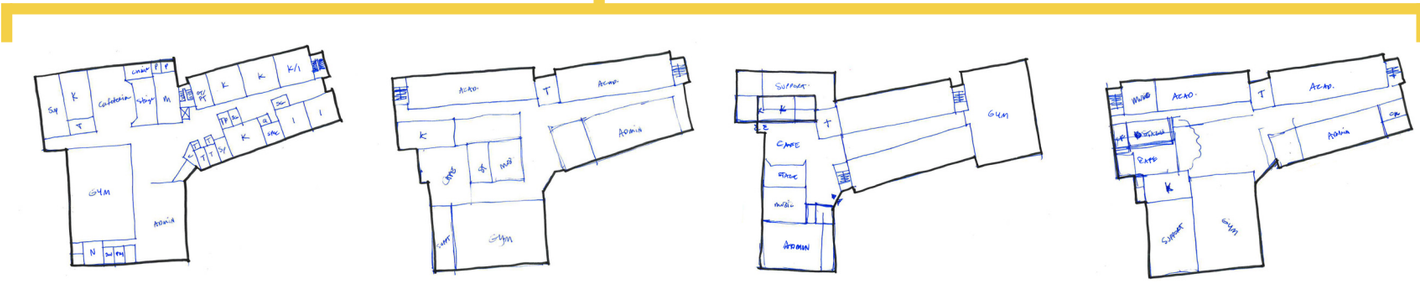
Square Off Cafe

Oct

Nov

Dec

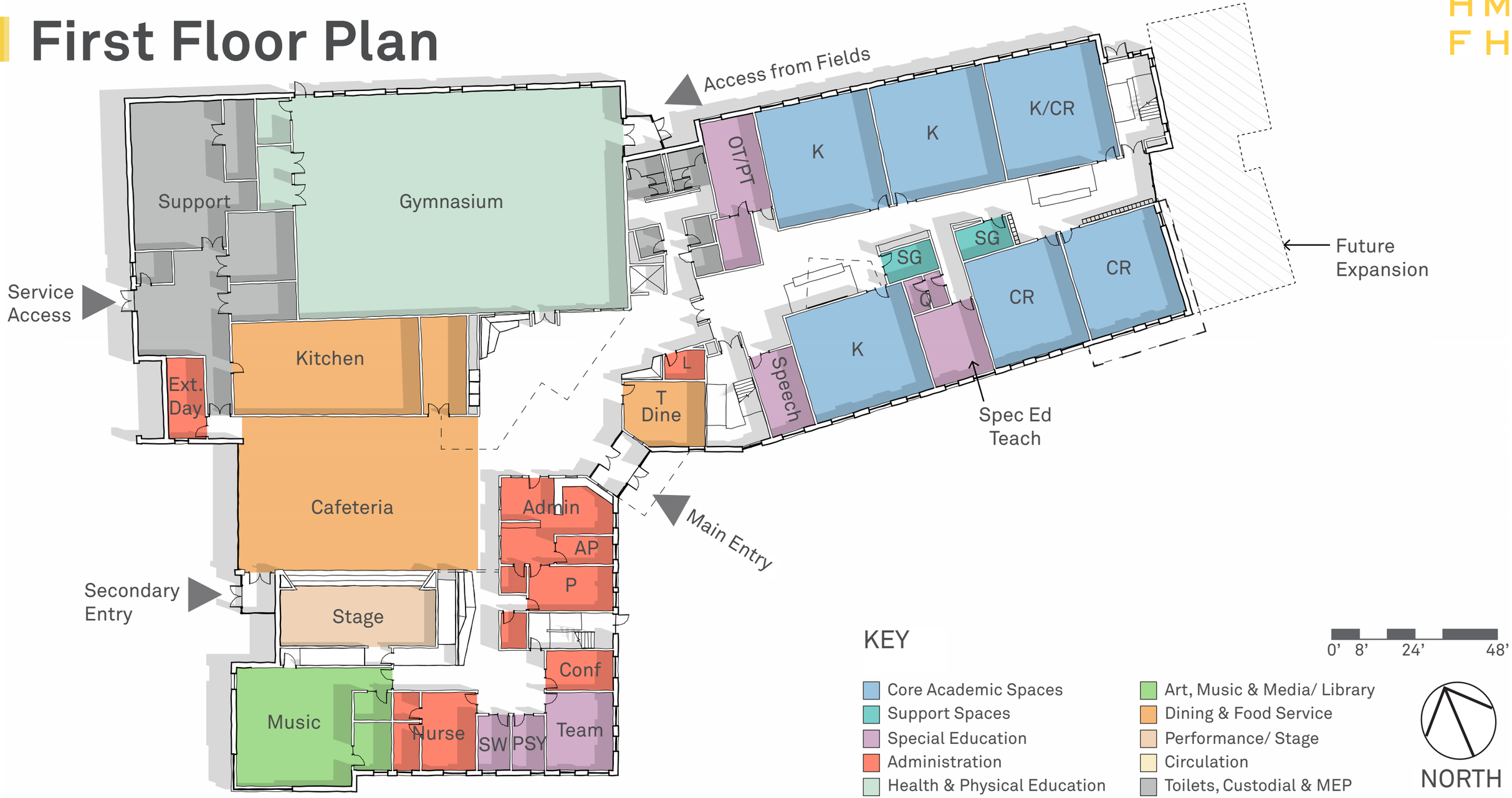
2024



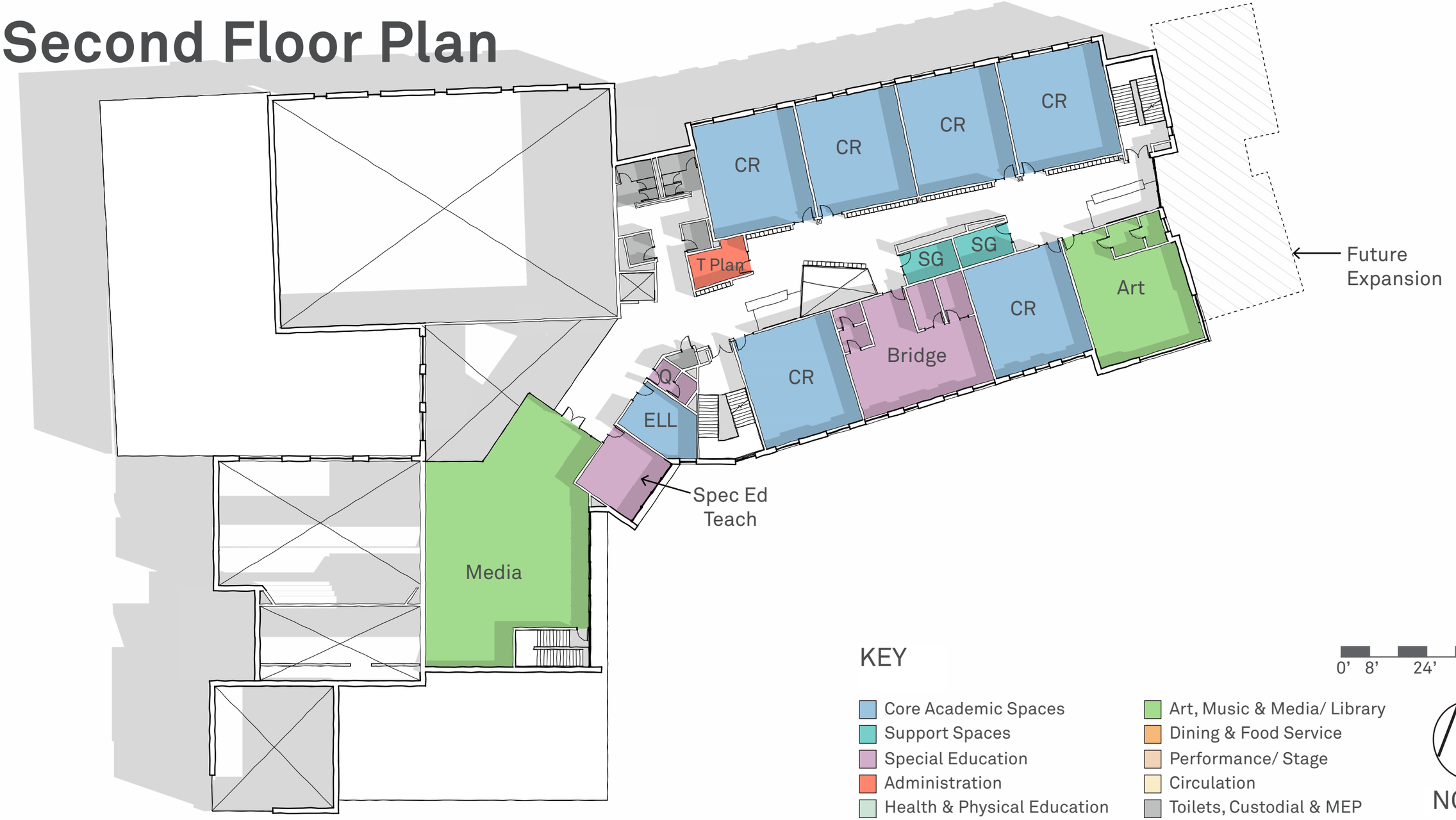
Sketch Studies

Music Shift Study

First Floor Plan



Second Floor Plan



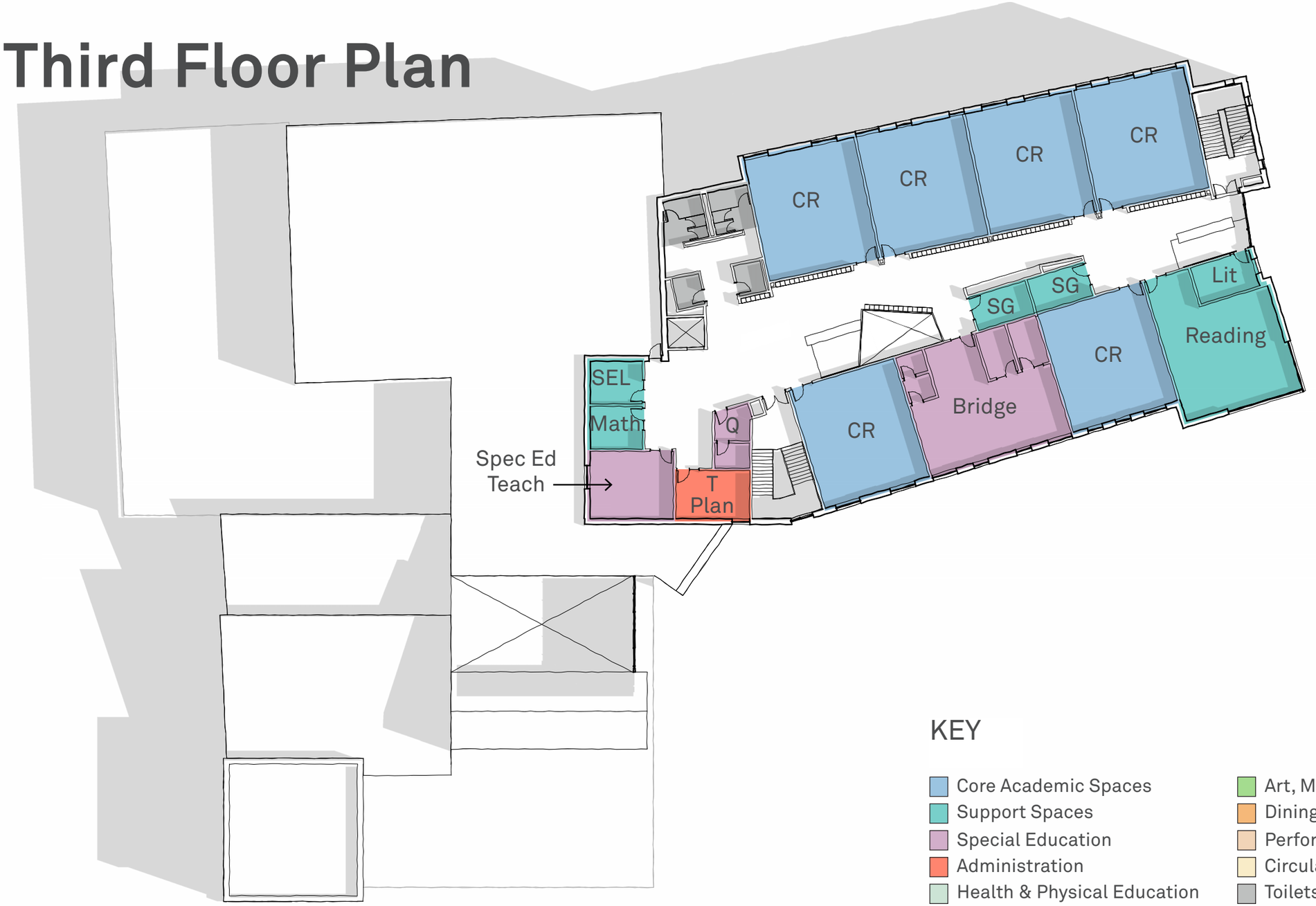
KEY

- Core Academic Spaces
- Support Spaces
- Special Education
- Administration
- Health & Physical Education
- Art, Music & Media/ Library
- Dining & Food Service
- Performance/ Stage
- Circulation
- Toilets, Custodial & MEP

0’ 8’ 24’ 48’

NORTH

Third Floor Plan



KEY

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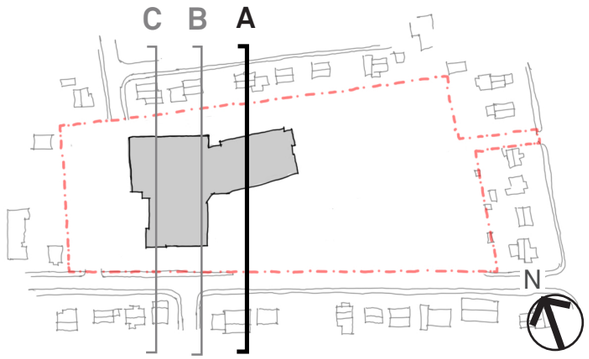
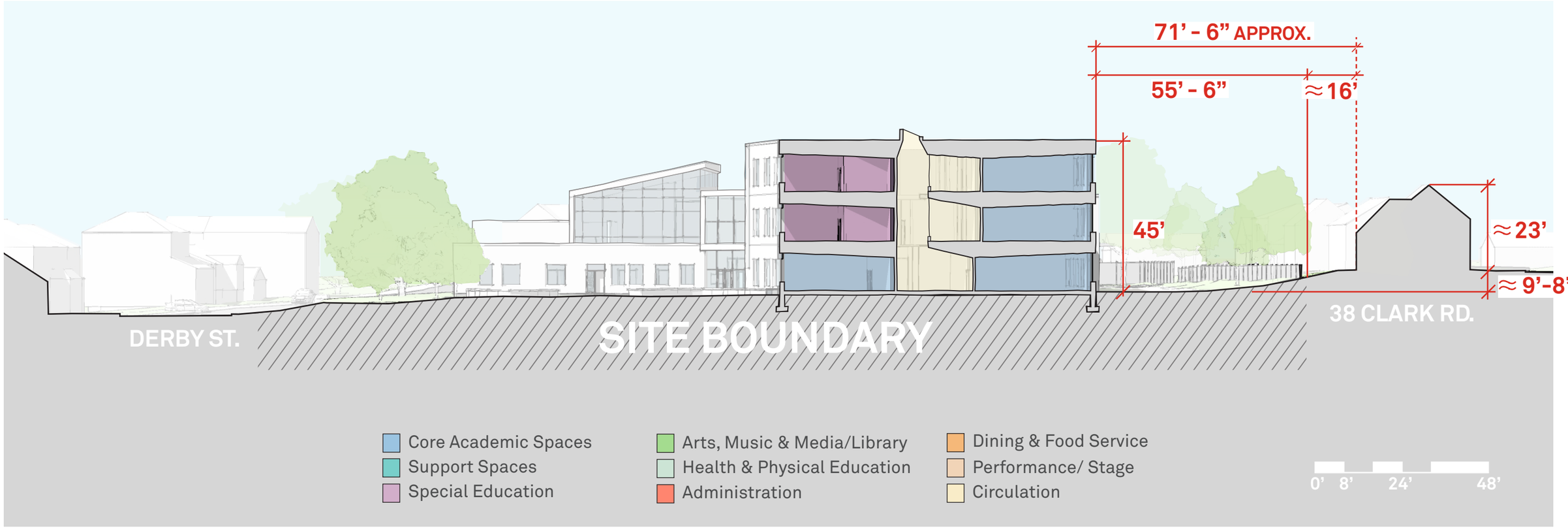
0’ 8’ 24’ 48’

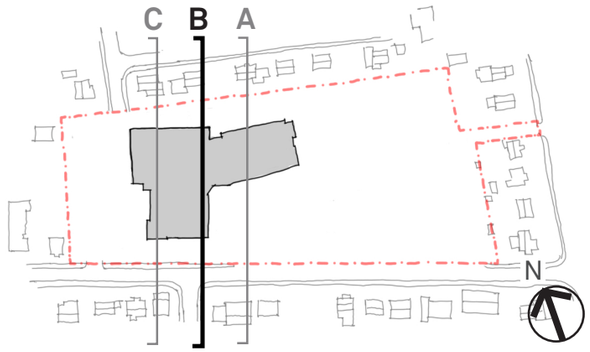
NORTH

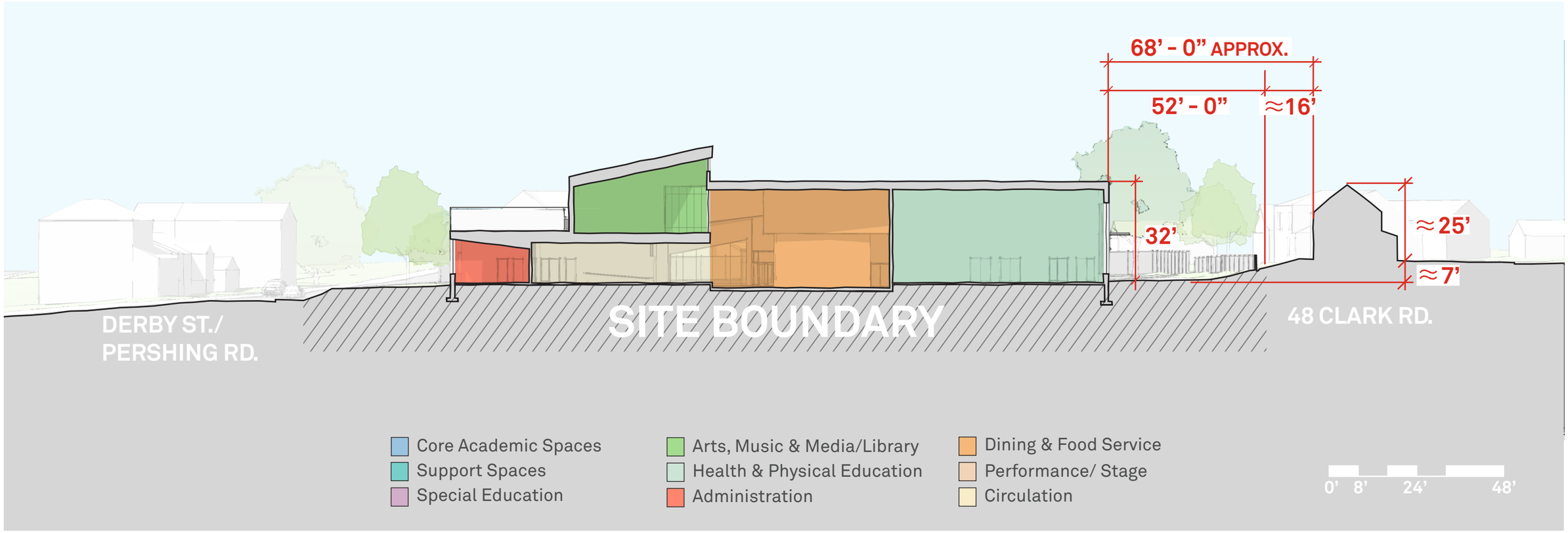
Section A: Academic Wing



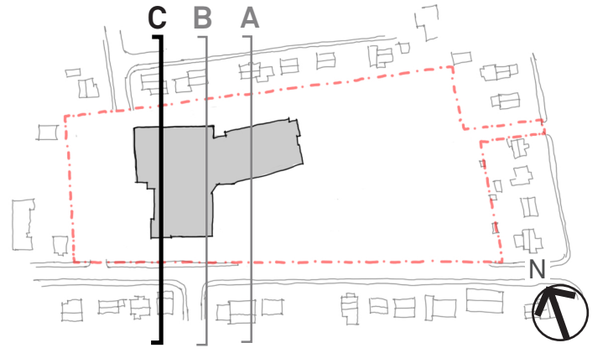


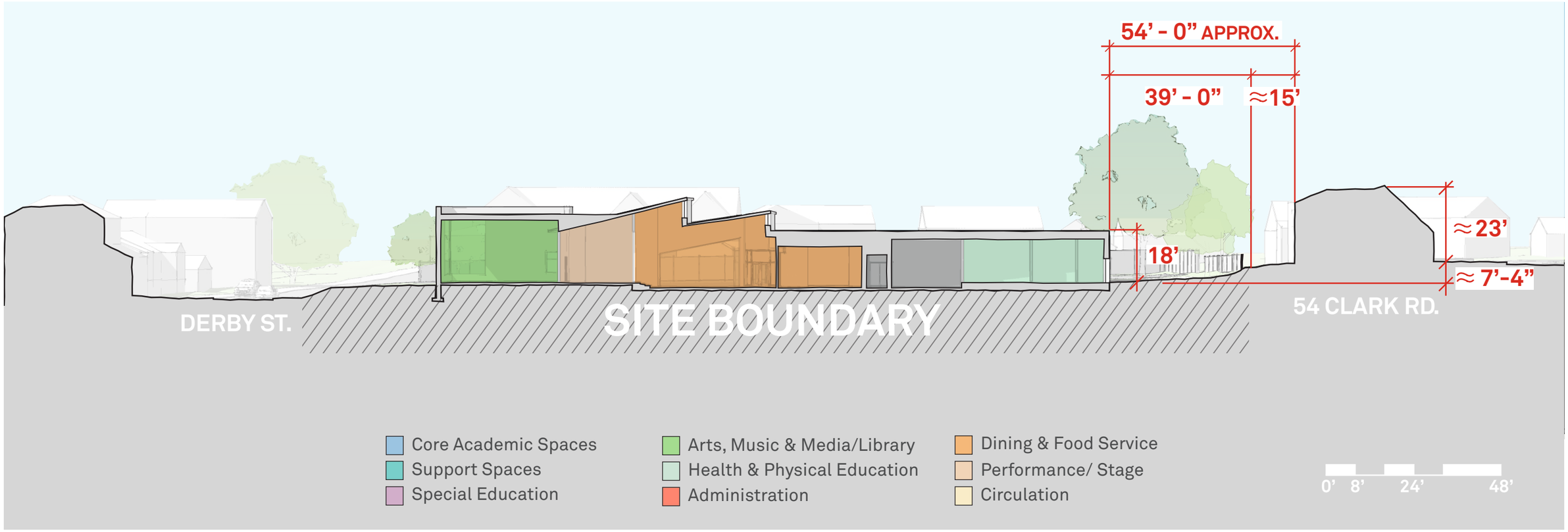
Section B: Media Center & Gym





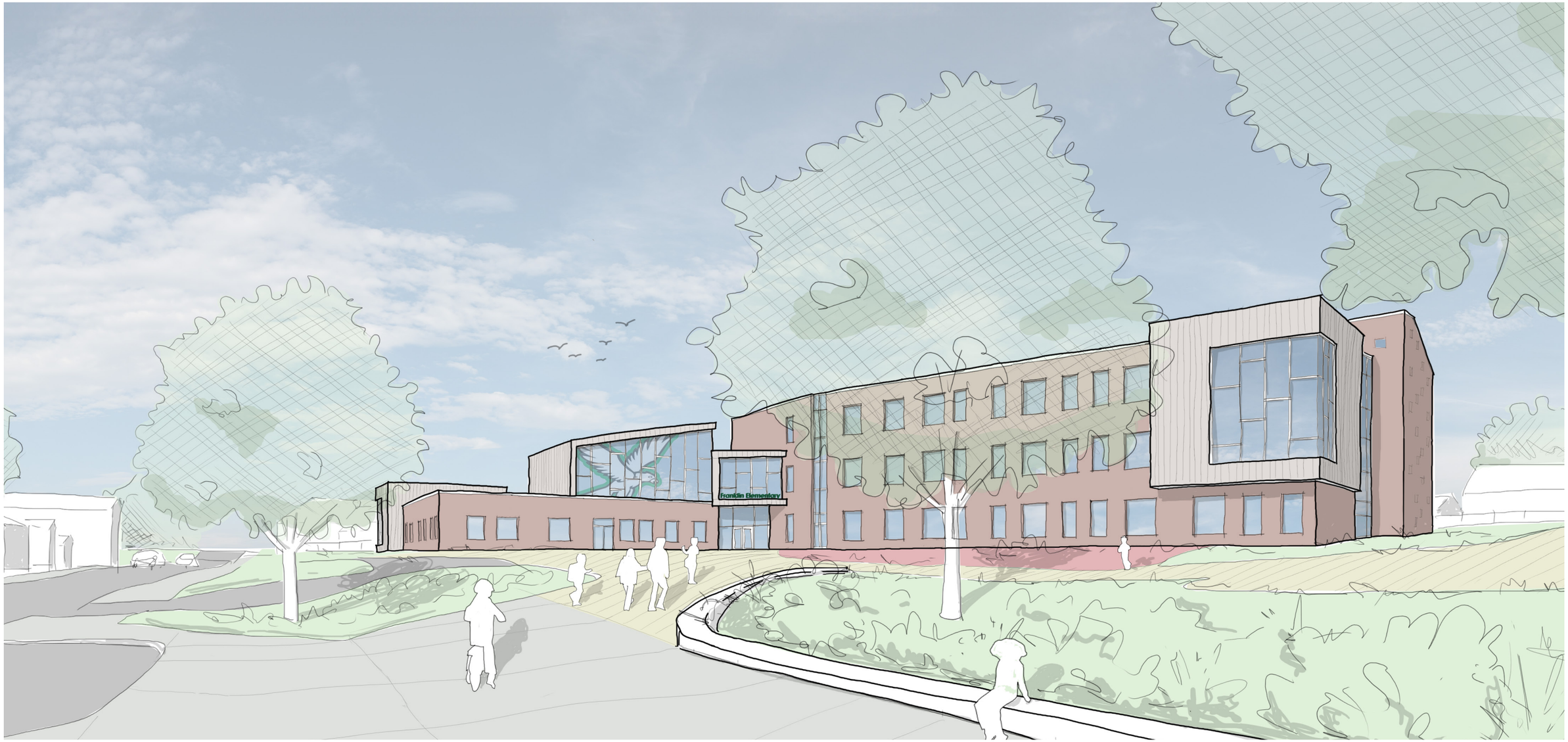
Section C: Stage & Cafeteria





Massing Study

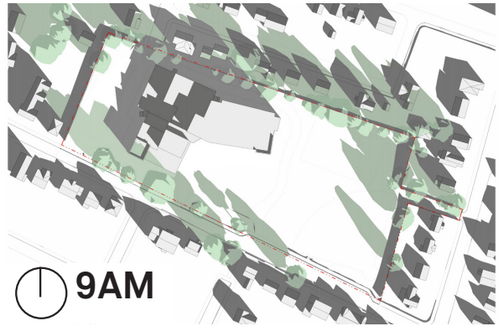
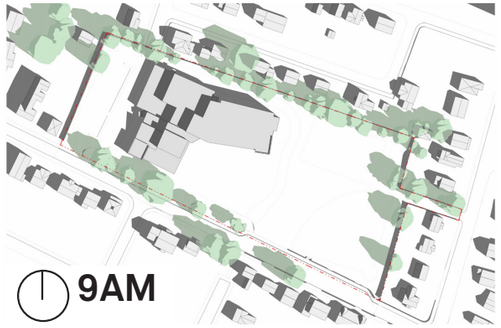
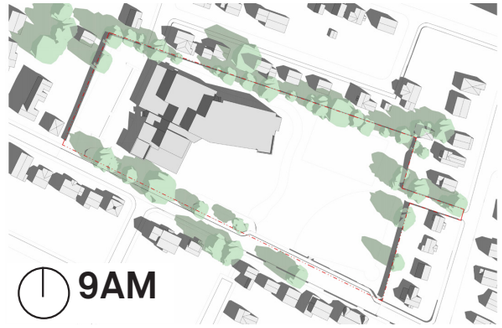
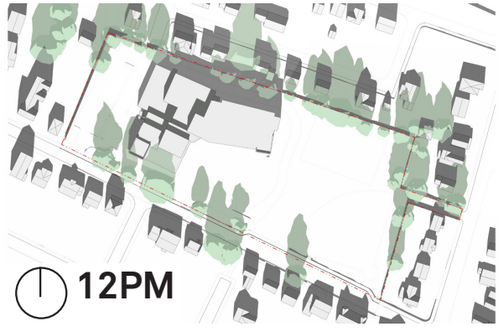
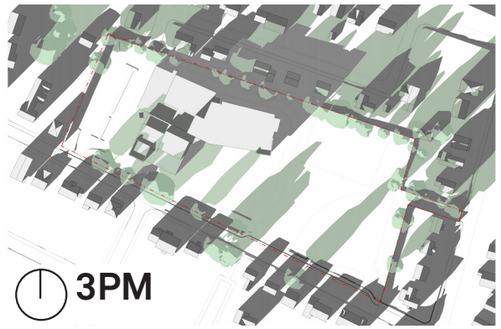
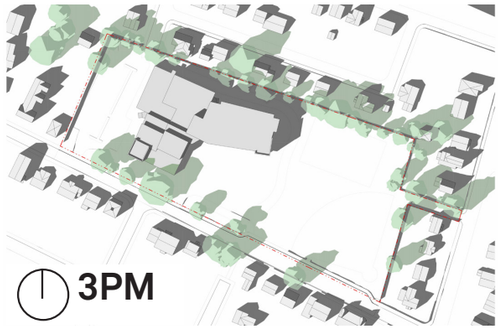
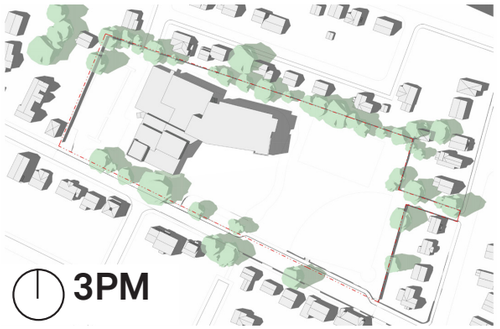
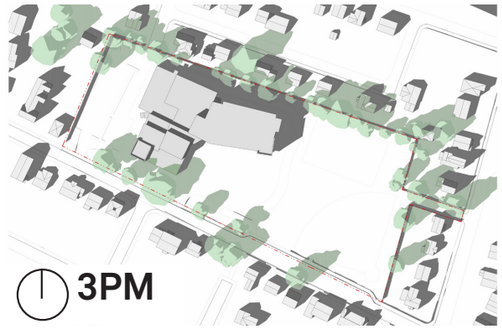
View from Parent Dropoff



HM
FH

HMFH ARCHITECTS

Sun Studies - A2 location

DECEMBER	MARCH	JUNE	SEPTEMBER
 9AM	 9AM	 9AM	 9AM
 12PM	 12PM	 12PM	 12PM
 3PM	 3PM	 3PM	 3PM