Existing Assessment

Existing Building Condition

The Rochester Middle School was built in 1992 with additions completed in 2002. The exterior envelope is in good condition and provides for a comfortable interior environment. Comfort issues were reported in only a few rooms, which could likely be resolved through HVAC control management, Interior finishes are in generally good condition and appear to be well maintained. Although subjective, it could be noted that the exterior and interior finishes are bland an lack life with the exception of the student implemented wall murals. The wall murals should be preserved and expanded upon to give the facility an improved ambiance appropriate of a Middle School.

Existing Site

Parking appears adequate for staff but short for visitors. It was noted by the Principal that as many as 17 spaces could be added at various areas around the building (at very little costs). The drop-off area for busses and parents works well. Athletic Field Access, although crossing a vehicular lane, is appropriate for students of this age given the small amount of daytime traffic here.
The outdoor student area adjacent to the cafeteria would benefit from landscaping improvements including hardscape and high traffic natural space such as synthetic turf and natural plantings. This area is currently dirt / mud due to it's high use.

Safety, Security and Code Compliance

The building, being a newer facility, is in good standing with fire safety and security standards. The school appears to be fully accessible. As always furnishings within each education area must observe proper clearances as required to maintain this accessibility throughout the school day.

Acoustics and Daylighting

Classroom acoustics are good (with the exception of one room which was reported to have acoustic issues). Daylighting, while being minimal, is adequate throughout most areas. Increase daylighting could be realized in many areas such as the gymnasium and the music rooms through the use of skylights.

Programming / Space Needs

Overview of Space Needs

The Rochester Middle School is appropriately sized for it's current student population. While programming calculations point out that the Cafeteria is slightly under the recommended area, it should be noted that the school operates well with the space it has in this room. Programming calculations also note that the Rochester Middle School is short on World language classrooms, however, this shortage is easily addressed by allowing use of the general classrooms for World Languages. It should also be noted that, based on current populations, one sixth grade classroom and two eight grade classrooms could be re-purposed to meet World Language needs. Programming also notes that the school should provide 2 more areas for Intervention, which could be created within one of the Computer Labs, as it appears that two would be adequate to handle the current curriculum.

Student created wall murals give life the Rochester Middle School. This effort should be embraced.

Some areas, like the gymnasium, lack natural light. To remedy this, diffuse lensed skylights could be provided, along with daylight harvesting sensors, to both improve lighting and provide energy savings. Cost effective solutions include packaged round skylight units (such as Solar-tubes), small rectangular packaged units, or pyramidal skylight units.

Programming / Space Needs Calculations

Rochester Middle School Program Based on Enrollment

Education Program Areas

Course/Subject	# Students	Max Students/ Teaching Space	Utilization (90%)	# of Sections	Offered	Required Teaching Spaces (adjusted)	Number of Appropriately sized spaces in existing building	Required additional spaces	Notes
6th Grade	308	25	0.90	13.69	Full Day	**14**	15	-1	15 current rooms could accommodate 337 kids at 90% utilization
7th Grade	341	25	0.90	15.16	Full Day	**16**	16	0	16 current rooms could accommodate 360 kids at 90% utilization
8th Grade	311	25	0.90	13.82	Full Day	**14**	16	-2	15 current rooms could accommodate 360 kids at 90% utilization
Total Enrollment	960					**44**			

Core Program Areas

Space	Student Access Per week (periods)	# of Students Served	# of Classes/wk	Calculated SF of Space (Per Standards)	Periods per week Offered***	# Spaces Required	Number of Appropriately sized spaces in existing building (or size of existing space)	Required additional spaces	Notes
Computer Lab	5	240	55		40	**2**	3	-1	
Art	5	240	55		40	**2**	2	0	
Music/Band	5	240	55		40	**2**	2	0	Note: one classroom is undersized (suited for 12 students or less)
Tech Ed (Industrial Arts)	3	240	23		40	**1**	1	0	
FACS	3	240	23		40	**1**	1	0	Note: one classroom is undersized (suited for 12 students or less)
World Language	5	240	150		40	**4**	2	2	
Health/Wellness	5	240	55		40	**2**	1	1	
Physical Education	5	240	55		40	**2**	2	0	Assuming two stations in gym per period
Media Center	1	960	44	3840	40		3516	324	Net Square Feet
Cafeteria	5	960		4800	15		4000	800	Net Square Feet
Excel Program	5	96	96		40	**3**			Calculations assume 5 students/section
Special Education Student Areas*	5	240	600		40	**15**	15	0	Calculations assume 2 students/section, and 2 sections per area in existing plan
Intervention / Small Group Areas**	5	240	400		40	**10**	8	2	Calculations assume 2 students/section, and 2 sections per area in existing plan
Professional Areas								0	

* 25% of students identified to receive special services by District Special Education .

** 25% of students identified to receive Tier 2 or Tier 3 Intervention (Title 1) instruction

*** 10% of all kids working within excel prorgam

Standard 8 period day used for calculations

Numbers based on student access for UA classes as listed below

CPU Lab: 25% of all students at 5 days per week
Art: 25% of all students at 5 days per week
Music: All Students at 3 days per week
FACS: 25% of 7-8 graders at 3 days per week
Reading: taught in home classrooms
World Languages: All 7-8 Graders at 5 days per week
Health/Wellness: 25% of all students at 5 days per week
Tech Ed: 25% of 7/8 Graders at 3 days per week
PE: 25% of all students enrolled at 5 days per week
Media Center: All Students 1 day per week.

Dept of Ed allowable:	Age Group	Enrollment	SF/Pupil	Utilization	Total Building (NSF)	
For New Construction	Grade 6-8	960	140	0.90	149,333	Total Allowable by NH DOE standards for new construction

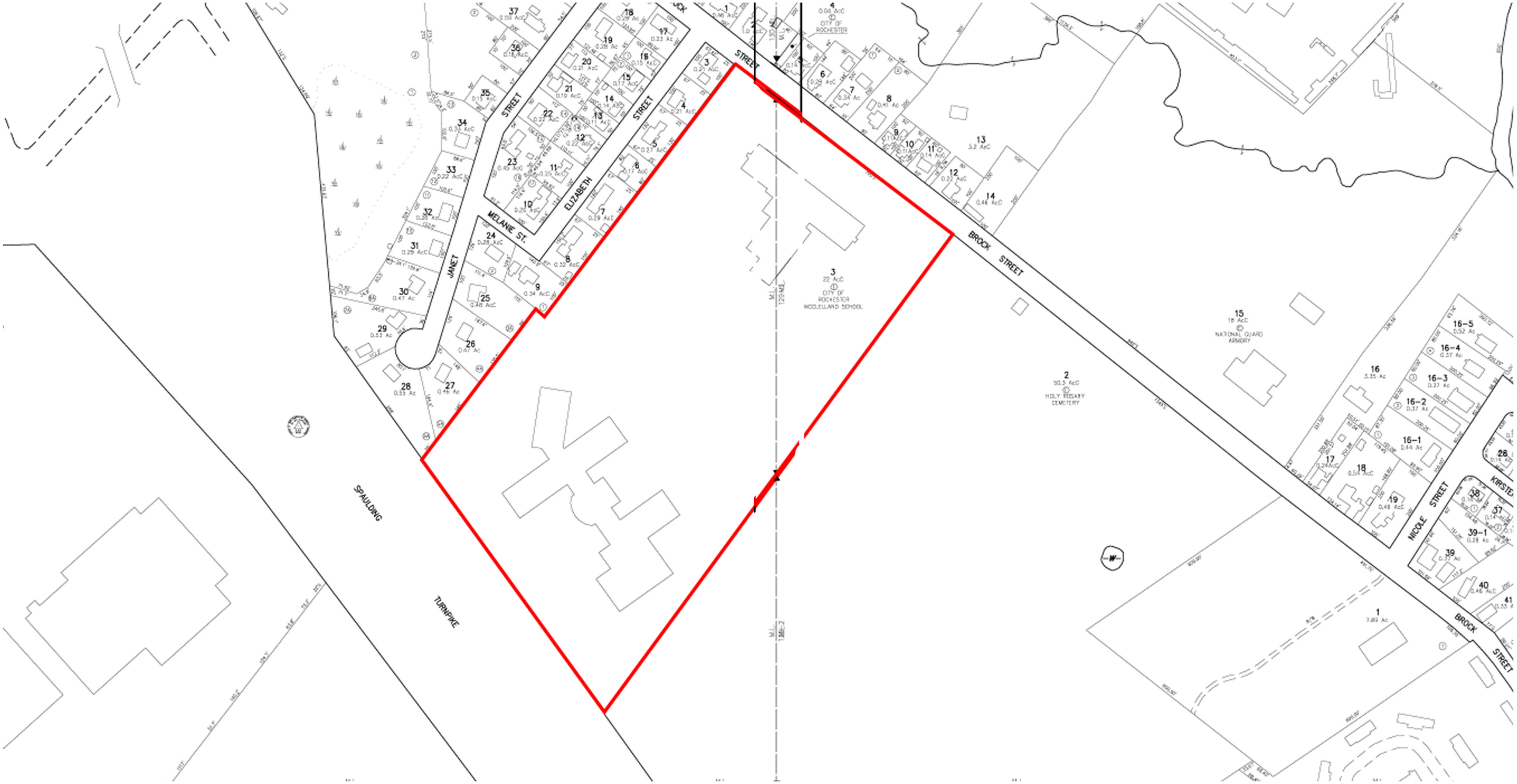
Existing Analysis / Capacity

Current Enrollment					**960**	
Current Building Size (gsf)					155,536	Excluding Portables
Estimated Building Capacity Based solely on size of building	Based on Average NH School Construction of 140sf/student				1,000	

	# Classrooms	Max Seats/ Classroom **	Utilization (90%)	Utilized Seats	Theoretical Student Capacity
Education Areas Capacity	47	25	0.9	1057.5	**1058**
Specialty Classrooms (Art.Music, Cpu, Etc)	12	25	0.9	270	
Current Utilization / Capacity					**90.78%**

Core Capacity	Number of Areas (or s	Appropriately Sized?	Seats/persons	Utilization (90%)	Periods per week Offered***	Theoretical Student Capacity	
Art	2	Y	25	0.9	40	1800	
Music	3	Y	25	0.9	40	2700	
Media Center	3516	N	Calculated @ Students x .10 x 40 sf			879	
Gymnasium	12433	Y	50	0.9	40	1800	If Gym allows 2 classes/period
CPU Lab	3	N	25	0.9	40	2700	
Cafeteria	4000	Y	267	0.9	15	720	Allowing for 15sf/student @ 3 periods per day

Existing Property Map



Existing Assessment - Main Level

Room reported to have poor acoustics

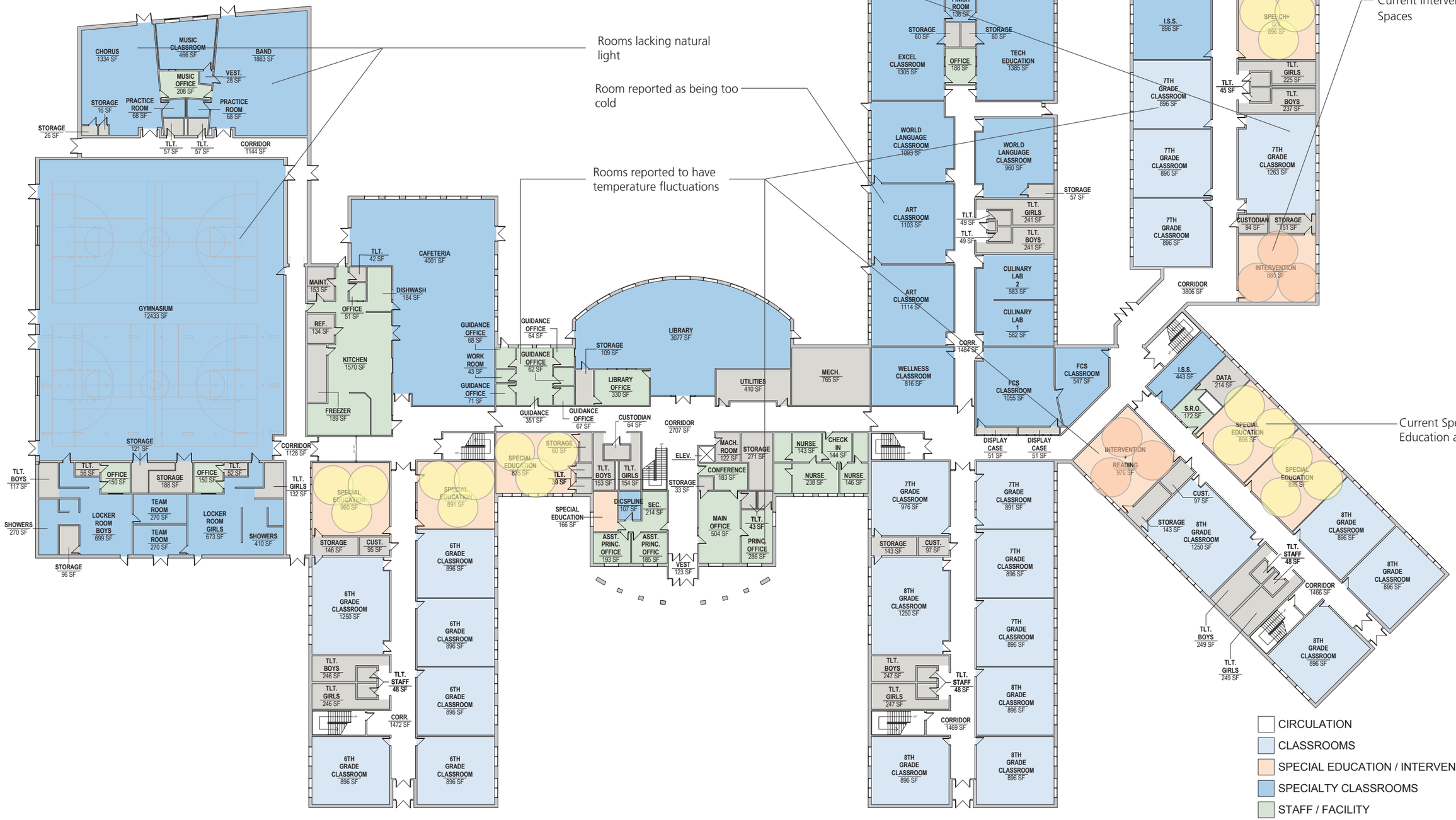
Rooms lacking natural light

Room reported as being too cold

Rooms reported to have temperature fluctuations

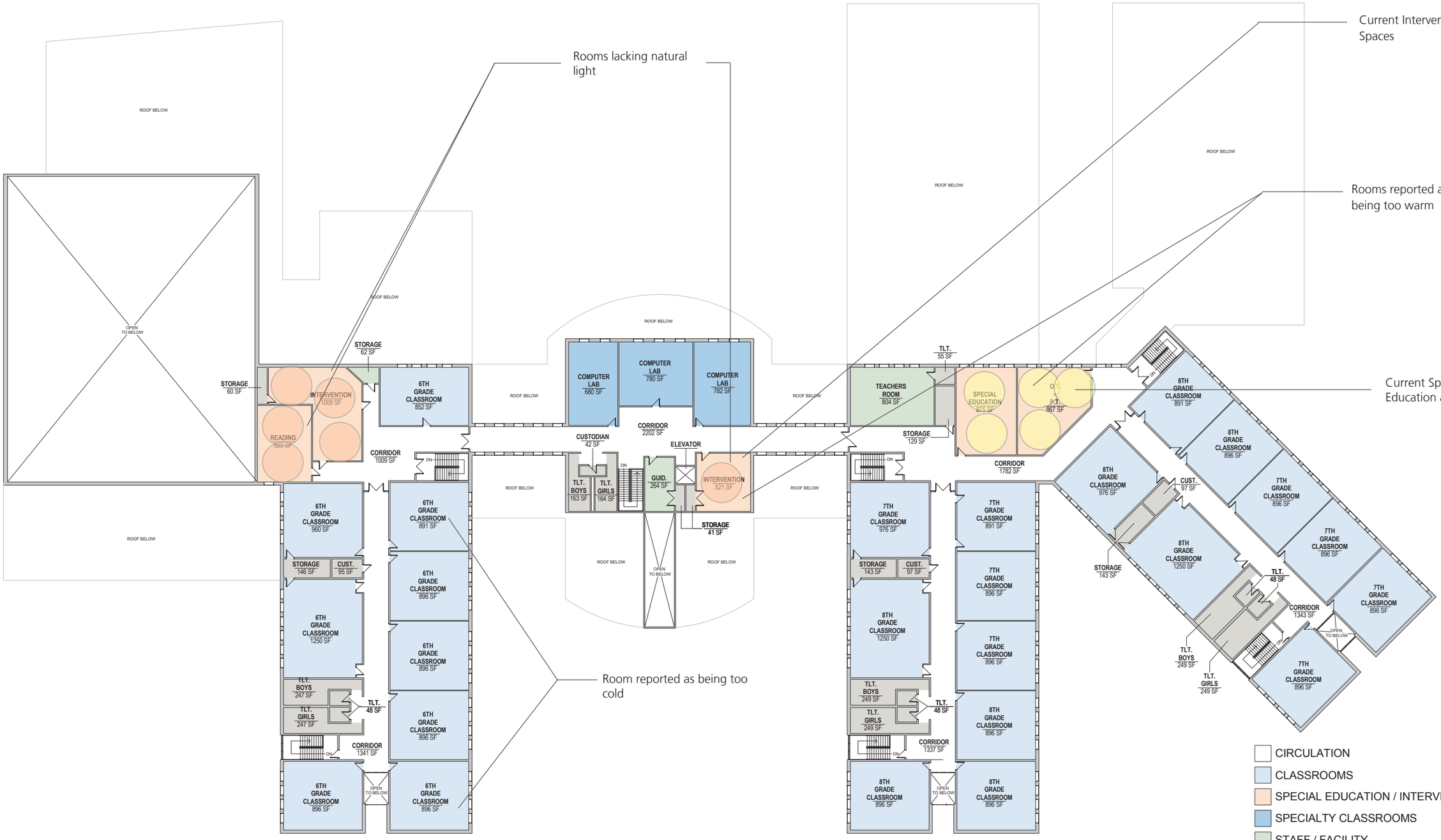
Current Intervention Spaces

Current Special Education areas



- CIRCULATION
- CLASSROOMS
- SPECIAL EDUCATION / INTERVENTION
- SPECIALTY CLASSROOMS
- STAFF / FACILITY
- SUPPORT

Existing Assessment - Level 2

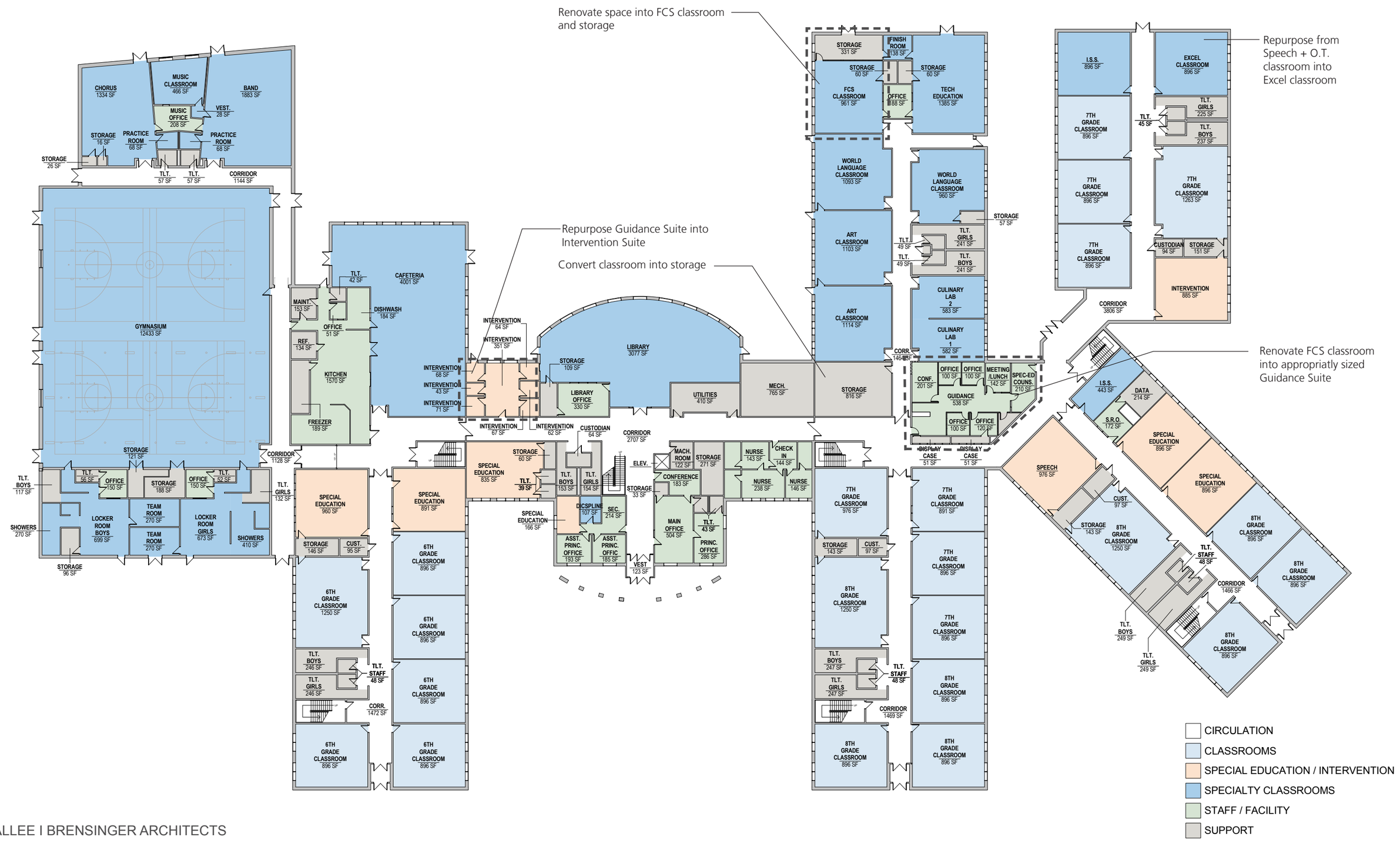


Recommended Improvements

Aerial Site - Courtesy of Bing Maps

Rochester Middle School

Proposed Plan - Main Level



Proposed Plan - Level 2

** No Changes on this level

- CIRCULATION
- CLASSROOMS
- SPECIAL EDUCATION / INTERVENTION
- SPECIALTY CLASSROOMS
- STAFF / FACILITY
- SUPPORT