

Appendix A | Capacity & Utilization Analysis

Albemarle County Public Schools High School Facilities Planning Study

Final Report | 14 December 2017

Capacity & Utilization Analysis

Estimated High School Student Capacities* | 2017/2018 School Year

NOTES

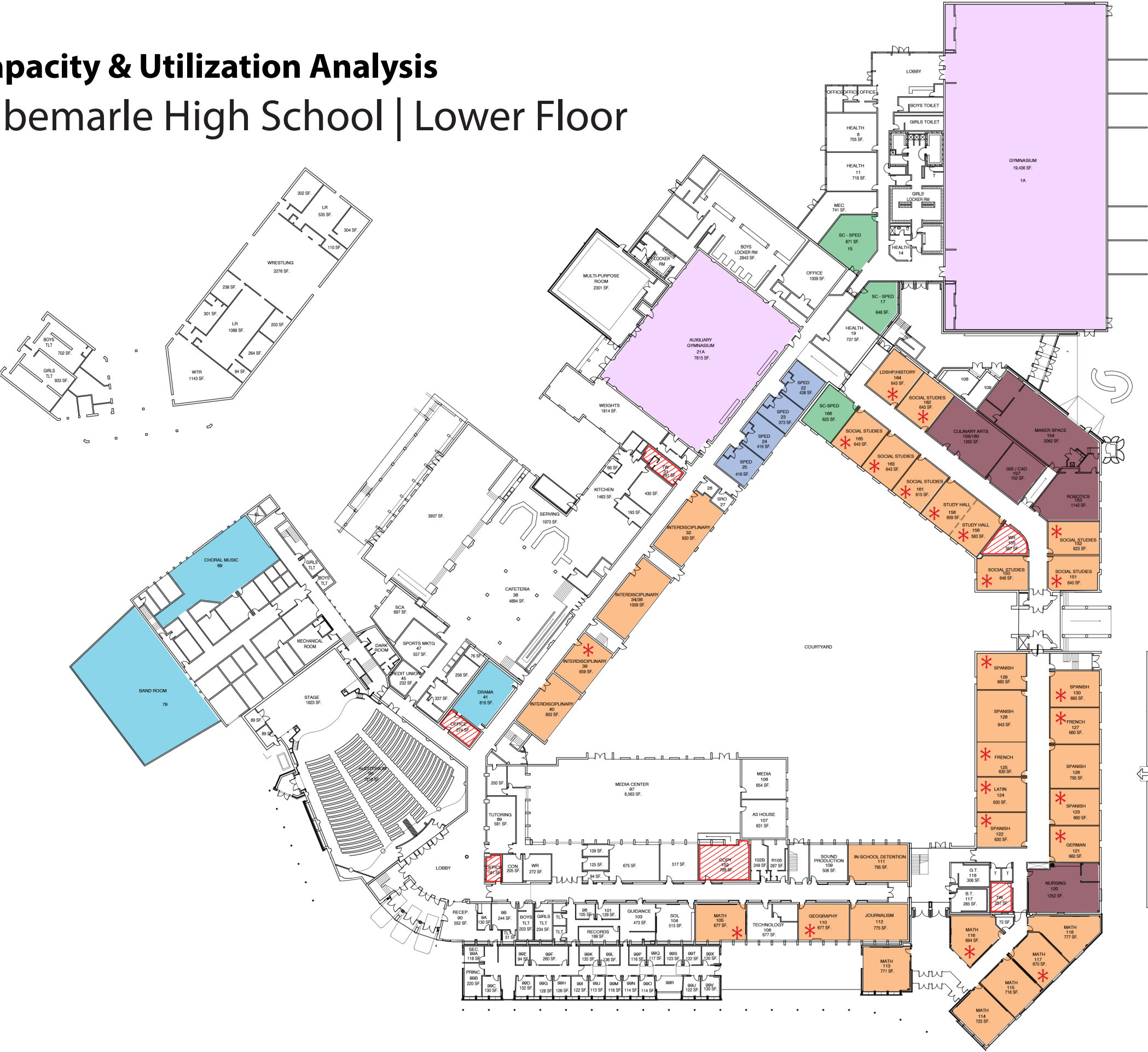
* Calculations based on ACPS current practices.

Division: Albemarle County Public Schools
Date: December 2017

	Albemarle High School					Monticello High School					Western Albemarle High School					Murray High School				
	No. of Teaching Stations	Multiplier			Capacity	No. of Teaching Stations	Multiplier			Capacity	No. of Teaching Stations	Multiplier			Capacity	No. of Teaching Stations	Multiplier			Capacity
Spaces that contribute towards Capacity																				
Core Classrooms	66	x	22	=	1452	38	x	22	=	836	38	x	22	=	836	12	x	15	=	180
Science Labs	14	x	22	=	308	12	x	22	=	264						1	x	15	=	15
6 Modernized Science Labs (2019) @ WAHS											6	x	22	=	132					
4 New Science Labs + ESA Lab @ WAHS											5	x	22	=	110					
Arts Education Classrooms / Labs	3	x	22	=	66	3	x	22	=	66	3	x	22	=	66	2	x	15	=	30
Music Labs	2	x	30	=	60	2	x	30	=	60	2	x	30	=	60	0	x	15	=	0
Drama Classroom	1	x	22	=	22	1	x	22	=	22	1	x	22	=	22	0	x	15	=	0
Career & Tech. Education Classrooms / Labs	5	x	20	=	100	4	x	20	=	80	4	x	20	=	80	0	x	15	=	0
Deduct to create Teacher Work/Plan Space	(4.0)	x	22	=	(88.0)	0	x	22	=	0	(4.0)	x	22	=	(88.0)					
Subtotal Academic Classrooms	87					60					55					15				
Self-Contained Special Education Classrooms	3	x	8	=	24	1	x	8	=	8	1	x	8	=	8	0	x	8	=	0
Main Gym (Counts as 2 Teaching Stations)	2	x	30	=	60	2	x	30	=	60	2	x	30	=	60	1	x	20	=	20
Auxiliary Gym	1	x	25	=	25	1	x	25	=	25	1	x	25	=	25	0	x	20	=	0
Subtotal Capacity Teaching Stations	93					64					59					16				
Spaces that do not contribute towards Capacity																				
Resource Rooms (Pull-Out Programs)	6					6.5					3					2				
Health Classroom	3					4					2					0				
Fitness Center	1					0					0					1				
Weight Room	1					1					1					0				
WrestlingRoom	1					1					1					0				
Video/Sound Production Lab	3					2					2					0				
Maker Space (Unscheduled)	1					1					1					0				
Community Rooms	0					0					0					2				
Subtotal Non-Capacity Teaching Stations	16					15.5					10					5				
Teaching Stations	109				Maximum Capacity	79.5				Maximum Capacity	69				Maximum Capacity	21				Maximum Capacity
					2029					1421					1311					245
Utilization Factor		87.5%			Program Capacity	Utilization Factor	87.5%			Program Capacity	Utilization Factor	87.5%			Program Capacity	Utilization Factor	87.5%			Program Capacity
					1775					1243					1147					214
					Additional Capacity					Additional Capacity					Additional Capacity					Additional Capacity
Relocatable Classrooms on Site	8	x	22	=	176	0	x	22	=	0	0	x	22	=	0	0	x	22	=	0
49 of 66 [74%] Core Classrooms are below VADoE recommended minimum size of 700 SF																				
33 of 38 [87%] Core Classrooms are below VADoE recommended minimum size of 700 SF																				
Maximum Enrollment Projection	2023/24					2024/25					2024/25					Division-wide				
Current Program Capacity	2175					1171					1335					4681				
Under / (Over) Capacity at Peak Enrollment Year	1775					1243					1147					4166				
	(400)					72					(188)					(515)				
Building Area [Square Feet]	291,900					252,460					208,806					753,166				
Area per Student	164					203					182					181				

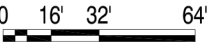
Capacity & Utilization Analysis

Albemarle High School | Lower Floor



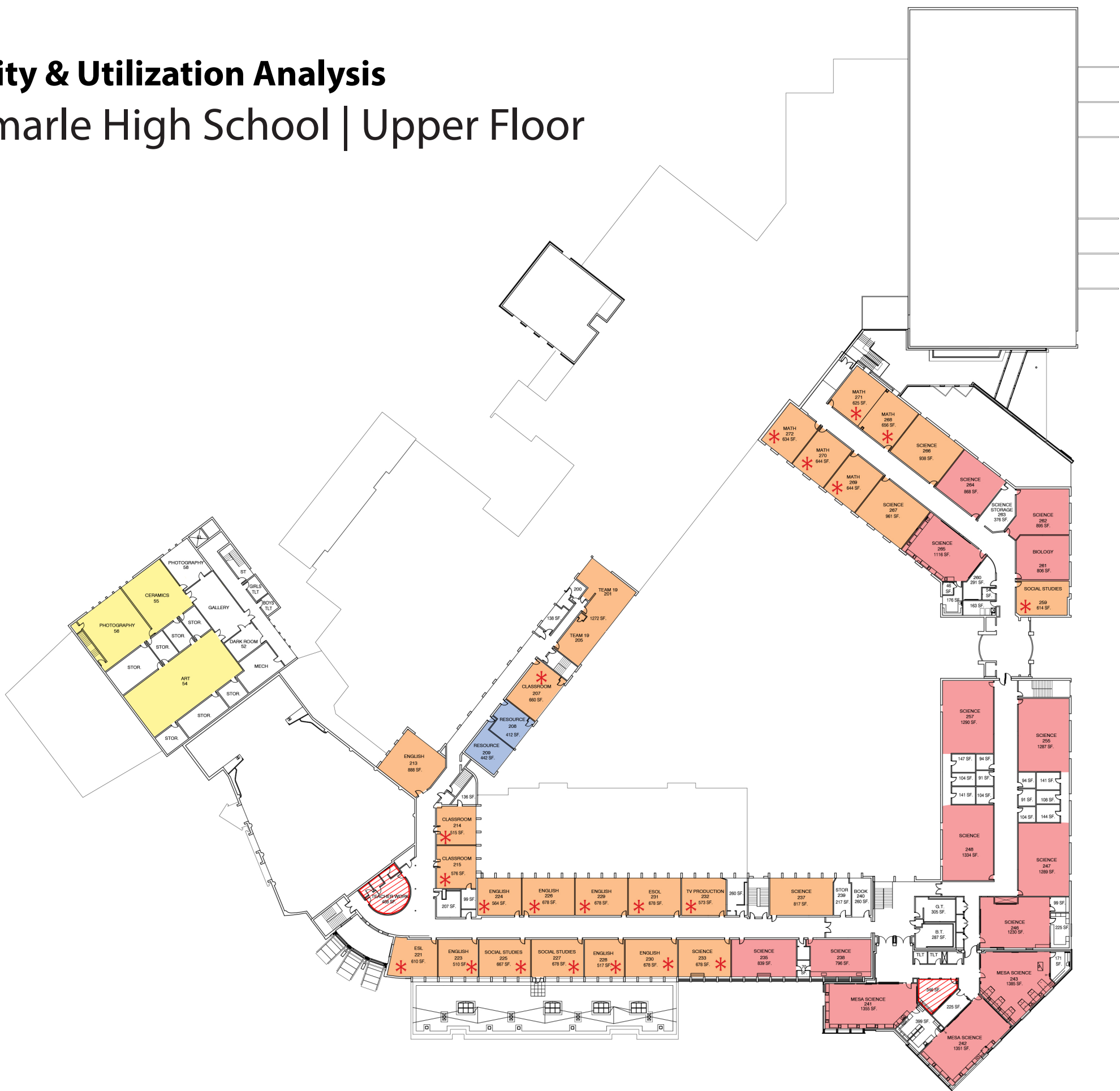
Current Utilization

- CORE CLASSROOM
 - SCIENCE LAB
 - ARTS
 - MUSIC
 - SELF-CONTAINED SPECIAL EDUCATION
 - CAREER AND TECH EDUCATION
 - PHYSICAL EDUCATION
 - RESOURCE (NON-CAPACITY SPACE)
 - TEACHER SPACE
 - CLASSROOM SIZE IS LESS THAN 700 SF
MINIMUM RECOMMENDED BY
VIRGINIA DEPARTMENT OF EDUCATION
- 49 OF 66 CORE CLASSROOMS
ARE BELOW 700 SF



Capacity & Utilization Analysis

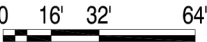
Albemarle High School | Upper Floor



Current Utilization

- CORE CLASSROOM
- SCIENCE LAB
- ARTS
- MUSIC
- SELF-CONTAINED SPECIAL EDUCATION
- CAREER AND TECH EDUCATION
- PHYSICAL EDUCATION
- RESOURCE (NON-CAPACITY SPACE)
- TEACHER SPACE
- CLASSROOM SIZE IS LESS THAN 700 SF
MINIMUM RECOMMENDED BY
VIRGINIA DEPARTMENT OF EDUCATION

49 OF 66 CORE CLASSROOMS
ARE BELOW 700 SF



Capacity & Utilization Analysis

Monticello High School | Upper Floor



CORE CLASSROOM

SCIENCE LAB

ARTS

MUSIC

SELF-CONTAINED SPECIAL EDUCATION

CAREER AND TECH EDUCATION

PHYSICAL EDUCATION

RESOURCE (NON-CAPACITY SPACE)

TEACHER SPACE

*

CLASSROOM SIZE IS LESS THAN 700 SF
MINIMUM RECOMMENDED BY
VIRGINIA DEPARTMENT OF EDUCATION

2 of 4 HEALTH CLASSROOMS
ARE BELOW 700 SF

Monticello High School | Lower Floor



Capacity & Utilization Analysis

Western Albemarle High School

*Includes Science Lab Addition & Modernization
scheduled for August 2019 occupancy

Current Utilization

CORE CLASSROOM

SCIENCE LAB

ARTS

MUSIC

SELF-CONTAINED SPECIAL EDUCATION

CAREER AND TECH EDUCATION

PHYSICAL EDUCATION

RESOURCE (NON-CAPACITY SPACE)

TEACHER SPACE

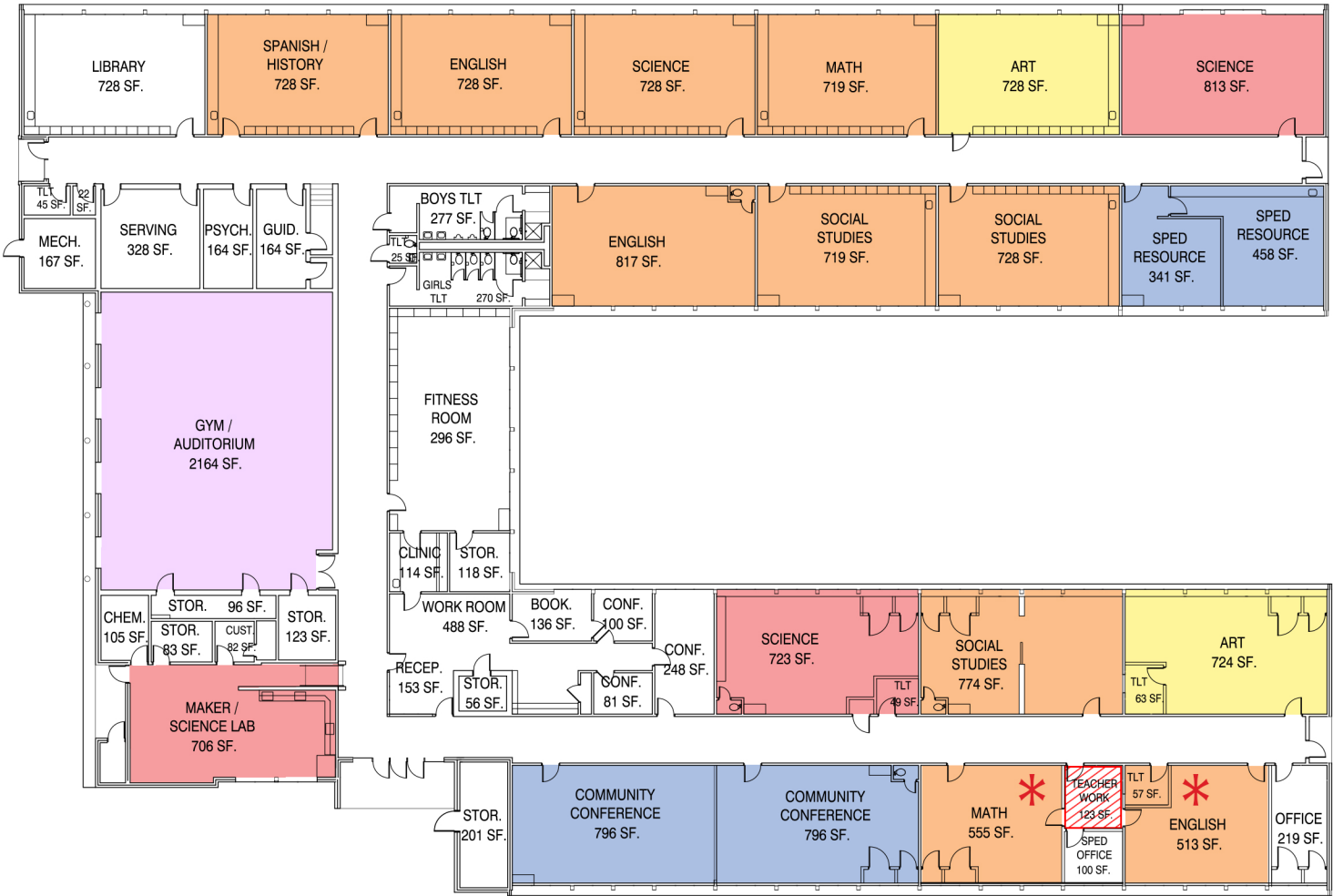
CLASSROOM SIZE IS LESS THAN 700 SF
MINIMUM RECOMMENDED BY
VIRGINIA DEPARTMENT OF EDUCATION

33 OF 38 CORE CLASSROOMS
ARE BELOW 700 SF



Capacity & Utilization Analysis

Murray High School



Current Utilization

- CORE CLASSROOM
- SCIENCE LAB
- ARTS
- MUSIC
- SELF-CONTAINED SPECIAL EDUCATION
- CAREER AND TECH EDUCATION
- PHYSICAL EDUCATION
- RESOURCE (NON-CAPACITY SPACE)
- TEACHER SPACE
- CLASSROOM SIZE IS LESS THAN 700 SF
MINIMUM RECOMMENDED BY
VIRGINIA DEPARTMENT OF EDUCATION

Capacity & Utilization Analysis

CATEC



Current Utilization

