HMFH ARCHITECTS

SAUGUS HIGH SCHOOL PRELIMINARY DESIGN PROGRAM PROGRESS UPDATE

SAUGUS, MASSACHUSETTS

Lori Cowles, AIA Principal

August 1, 2016

SHS PRELIMINARY DESIGN PROGRAM

- Educational Visioning Report (**draft for review**)
- Facility assessment (complete
- Educational plan (draft for review)
- Space Summary (draft for review)
- Draft Alternatives

Color Key: Black=HS, Red=MS, Green=Shared

14

COMBINED M-H	Existing Conditions				
ROOM TYPE	ROOM NFA ¹	# OF RMS	area totals		
ORE ACADEMIC SPACES		67	72,470		
(List classrooms of different sizes separately)					
Classroom - General	925	1	925		
Classroom - General	855	2	1,710		
Classroom - General	845	4	3,380		
Classroom - General	745	13	9,685		
Classroom - General	755	4	3,020		
Classroom - General	735	5	3,675		
Classroom - General	680	1	680		
Classroom - General	585	2	1,170		
Classroom - General	575	1	575		
Classroom - General	555	1	555		
Classroom - General	845	33	27,885		
Classroom - General	1,010	3	3,030		
Classroom - General	530	1	530		
Teacher Planning					
Small Group Seminar (20-30 seats)	1 000		4.000		
Science Classroom / Lab	1,230	1	1,230		
Science Classroom / Lab Science Classroom / Lab	990 880	3	2,970 3,520		
Science Classroom / Lab	1,010	6	6,060		
Prep Room	200	1	200		
Prep Room	145	1	145		
Prep Room	135	3	405		
Prep Room	95	2	190		
Prep Room	225	3	675		
Prep Room	120	1	120		
Central Chemical Storage Rm	135	1	135		
PECIAL EDUCATION		4	15,085		
(List classrooms of different sizes separately)					
Self-Contained SPED (Life Skills)	770	2	1,540		
Self-Contained SPED (18-22 Program)	1,210	1	1,210		
Self-Contained SPED Toilet	1,210	1	1,210		
Small Group Room					
Sub-separate Classroom	925	1	925		
Resource Room	745	1	745		
Resource Room	735	2	1,470		
Resource Room	585	1	585		
PROUD Program	1,350	1	1,350		
ETL Office/Meeting Room	390	1	390		
Speech/ Testing	325	1	325		
Psychologist	325	1	325		
Self-Contained SPED (Life Skills/Autism)	1,010	1	1,010		
Self-Contained SPED Toilet	.,		1,010		
Resource Room	845	2	1,690		
Resource Room	1,010	1	1,030		
Social/Emotional Room	845	1	845		

	Color Key: Black=HS, Red=MS, Green=Shared PROPOSED							
Existing	g to Remain/Re	enovated	New			Total		
ROOM NFA ¹	# OF RMS	area totals	ROOM NFA ¹	# OF RMS	area totals	ROOM NFA ¹	# OF RMS	area totals
		0		56	74,810			0
		, , , , , , , , , , , , , , , , , , ,			1 1,010			, , , , , , , , , , , , , , , , , , ,
			850	26	22,100	(Note: 700/23=	=30x85% utiliz	ation= 26)
						NINE ADDITIC	ONAL CLASSF	ROOMS
			850	30	25,500	(Note: 660/23=	=29. increased	to 30)
			400	12	4,800	(12 workstation	ns + conferenc	ce each)
			1 4 4 0	0	11 500	(Nata: at mat	ahaa aviating)	
			1,440	8	11,520	(Note: qty mate	cnes existing)	
						TWO ADDITIC	DNAL SCIENC	E
			1,440	6	8,640	(Note: qty mat		
			150	8	1,200			
			150	6	900			
			150	1	150			
				-				
		0		3	13,580			0
			1,200	1	1,200			
			900	1	900			
			60	2	120			
			850	1	850			
			600	4	2,400			
<u> </u>			600	2	1,200			
			350	1	350			
			300	1	300			
			300	1	300			
			900 60	1	900 60			
1			900	3	2,700			
				Ĭ	2,, 00			
			600	1	600			

Version 11.24.2010

(refer	to MSBA Edu		Guidelines ram & Space Standard Guidelines)
ROOM NFA ¹	# OF RMS	area totals	Comments
		66,030	
850	47	39 950	825 SF min - 950 SF max
100	47	4,700	
500 1,440	3 12	1,500 17,280	
1,440	12	17,200	3 x85% ut=20 Seats-1 per /day/student
200	12	2,400	
200	1	200	
		14,100	
950	10	9,500	assumed 8% of pop. in self-contained SPED
60	10	600	
500	4	2,000	1/2 size Genl. Clrm.
500	4	2,000	1/2 size Genl. Clrm.
500	7	2,000	172 5126 OCHI. OHHI.
	l i	1	• •

Color Key: Black=HS, Red=MS, Green=Shared

COMBINED M-H	Ex	Existing Conditions			
ROOM TYPE	ROOM NFA ¹	# OF RMS	area totals		
Time Out Room	225	1	225		
ETL Office/Meeting Room	370	1	370		
PT	225	1	225		
OT (/ Speech)	845	1	845		
Life Skills Café					
ART & MUSIC			11,470		
Art Classroom - 25 seats	1,800	1	1,800		
Art/Pottery Classroom - 25 seats	1,780	1	1,780		
Art Workroom w/ Storage & kiln	500	1	500		
Art Classroom	1,160	1	1,160		
Art Classroom	1,010	1	1,010		
Art Workroom w/ Storage & kiln					
Band / Chorus - 100 seats	1,525	1	1,525		
Band / Chorus - 100 seats	1,660	1	1,660		
Music Classroom/Large Group	1,150	1	1,150		
Chorus - 50 - 100 seats					
Ensemble					
Music Practice	100	2	200		
Music Practice / Ensemble	85	1	85		
Music Practice / Ensemble	65	1	65		
Music Office	75	1	75		
Music Storage - Instruments	210	1	210		
Music Storage - Uniforms	150	1	150		
Music Office	100	1	100		
OCATIONS & TECHNOLOGY			9,060		
Tech Clrm (E.G. Drafting, Business)					
Tech Clrm CADD	745	1	745		
Tech Clrm Video Production	745	1	745		
Tech Clrm Web Design	745	1	745		
Tech Clrm Engineering	1,420	1	1,420		
Tech Clrm Engineering	975	1	975		
Tech Clrm Coding/ Web Design	1,190	1	1,190		
Tech Shop - (E.G. Consumer, Wood)					
Tech Shop - Engineering	1,500	1	1,500		
Tech Shop - Engineering	1,740	1	1,740		
IEALTH & PHYSICAL EDUCATION			49,235		
Gymnasium	7,840	1	7,840	7 statio	
Gymnasium	6,445	1	6,445		
Gymnasium	8,250	1	8,250		
PE Alternatives	4,000	1	4,000		
Gym Storeroom	1,225	1	1,225		
Gym Storeroom	1,300	1	1,300		
Locker Rooms - Boys / Girls w/ Toilets	2,000	1	2,000		
Locker Rooms - Boys / Girls w/ Toilets	2,100	1	2,100		
Locker Rooms - Boys / Girls w/ Toilets	570	1	570		
Locker Rooms - Boys / Girls w/ Toilets	625	1	625		

				PROPOSED				
Existing to Remain/Renovated				New			Total	
ROOM NFA ¹	# OF RMS	area totals	ROOM NFA ¹	# OF RMS	area totals	ROOM NFA ¹	# OF RMS	area total
			150	1	150			
			350	1	350			
			300	1	300			
			300	1	300			
			600	1	600			
		0			10,250			
			1,200	2	2,400			
			150	2	300			
			1,200	2	2,400	ONE ADDITIC	ONAL ART	
			150	2	300			
			1,500	1	1,500			
			1,500	1	1,500			
			850	1	850	ONE ADDITIC	ONAL MUSIC	
			75	4	300			
			500	1	500			
			200	1	200			
		0			9,100			
			850	1	850			
			850	1	850			
			850	1	850			
			850	2	1,700			
			850	1	850			
			000	•	000			
			1,000	2	2,000			
			1,000	2	2,000			
		0			29,890			
			12,000	1	12,000			
			3,000	2		ONE ADDITIC	ONAL ALT PE	
			300	2	600			
			2 000	2	4 000		BY AGE GRO	
			2,000 2,000	2	4,000	SEFARATED		
			2,000	<u> </u>	4,000			

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(refer	to MSBA Edu		Guidelines ram & Space Standard Guidelines)
ROOM NFA ¹	# OF RMS	area totals	Comments
		8,200	
1,200	3	3,600	Assumed use - 25% Population - 5 times/week
150	3	450	
1,500	1	1,500	Assumed use - 25% Population - 5 times/week
1,500	1	1,500	
200	1	200	
75	6	450	
500	1	500	
		10.000	
1,200	4	12,800	Assessment and SOM Developing Eliment and
1,200	4	4,800	Assumed use - 50% Population - 5 times/week
2,000	4	8,000	Assumed use - 50% Population - 5 times/week
		23,816	
12,000	1	12,000	
12,000		12,000	
3,000	1	3,000	
300	1	300	
7,616	1	7,616	5.6 sf/student total

Color Key: Black=HS, Red=MS, Green=Shared

COMBINED M-H	Existing Conditions			
ROOM TYPE	ROOM NFA ¹	# OF RMS	area totals	
Locker Rooms - Boys / Girls w/ Toilets	1,700	1	1,700	
Locker Rooms - Boys / Girls w/ Toilets	1,740	1	1,740	
Locker Rooms - Boys / Girls w/ Toilets	3,330	1	3,330	
Locker Rooms - Boys / Girls w/ Toilets	880	2	1,760	
Weight Room/ Fitness Center	1,080	1	1,080	
Phys. Ed. Storage	1,585	1	1,585	
Gym Storeroom	1,300	1	1,300	
Athletic Director's Office	265	1	265	
AD Clerk's Office	180	1	180	
Health Instructor's Office w/ Shower & Toilet	460	1	460	
Health Instructor's Office w/ Shower & Toilet	180	2	360	
Trainer	1,120	1	1,120	
			9,705	
Media Center / Reading Room	4,585	1	4,585	
Media Center / Reading Room	3,045	1	3,045	
Computer Lab	745	1	745	
Computer Lab	680	1	680	
Computer Lab	650	1	650	
AUDITORIUM / DRAMA			21,600	
Auditorium	8,060	1	8,060	
Stage	2,245	1	2,245	
Auditorium	4,800	1	4,800	
Stage	1,215	1	1,215	
Auditorium Storage				
Make-up / Dressing Rooms				
Controls / Lighting / Projection				
Drama Classroom	1,285	1	1,285	
Drama Storage	1,350	1	1,350	
Drama Classroom	1,485	1	1,485	
Drama Storage	1,160	1	1,160	
DINING & FOOD SERVICE			25,065	
Cafeteria / Student Lounge / Break-out	8,075	1	8,075	
Cafeteria / Dining	6,700	1	6,700	
Silent Dining	400	1	400	
Chair / Table / Equipment Storage	1,200	1	1,200	
Scramble Serving Area				
Kitchen	3,850	1	3,850	
Kitchen	3,765	1	3,765	
Staff Lunch Room	400	1	400	
Staff Lunch Room	675	1	675	
MEDICAL			905	
Medical Suite Toilet	30	2	60	
Medical Suite Toilet	45	1	45	
Nurses' Office / Waiting Room	180	1	180	

				PROPOSED				
Existing	g to Remain/Re	enovated	New			Total		
ROOM NFA ¹	# OF RMS	area totals	ROOM NFA ¹	# OF RMS	area totals	ROOM NFA ¹	# OF RMS	area totals
			1,000	1	1,000	SPS SPECIFI	C SPACE	
			500	2	1,000	(Note: one for	football/lacros	se equipment)
			150	1	150			
			150 100	1	150	SPS SPECIFI	C SPACE	
			160	2	320			
			160	2	320			
			400	1	400	<mark>SPS SPECIFI</mark>	C SPACE	
		0			8,400			0
			8,400	1	8,400			
						(Note: assume	es 1:1 technolo	igy)
		0			14,400			0
			7,500	1		(Note: MSBA	caps at 750 se	ats)
			1,600	1	1,600			
			500	1	500			
			300	2	600			
			200	1	200			
			1,500	1	1,500	<mark>SPS SPECIFI</mark>	C SPACE	
			1,500	1	1,500	SPS SPECIFI	C SPACE	
			1,000	1		SPS SPECIFI		
		0			11,540			0
			3,600 <mark>3,600</mark>	1		(Note: assume (Note: assume		
			3,000		3,000	ແນບເອ. assume	so o seauriys; i	
			490	1	490			
			300	1	300			
			300	1	300			
			2,660	1	2,660			
			590	1	590	(Note: 590/20	= 30 people)	
			000		000			
		0			1,320			0
			60	1		SEPARATED	BY AGE GRO	UP
			60 200	1	60 200			
	I		200	1	200			

Version

11.24.2010

(refer	to MSBA Ed		Guidelines ram & Space Standard Guidelines)
ROOM NFA ¹	# OF RMS	area totals	Comments
500	1	500	
150	1	150	
250	1	250	
		8,400	
8,400	1	8,400	
-,			
		10,400	
7,500	1	7,500	2/3 Enrollment @ 10 SF/Seat - 750 seats MAX
1,600	1	1,600	
500	1	500	
300	2	600	
200	1	200	
		11,140	
6,800	1	6,800	3 seatings - 15SF per seat
0,000	•	0,000	
490	1	490	
600	1	600	
0.000	4	0.000	
2,660	1	2,660	1600 SF for first 300 + 1 SF/student Add'l
590	1	590	20 SF/Occupant
		000	
		1,210	
60	1	60	
250	1	250	

Color Key: Black=HS, Red=MS, Green=Shared

COMBINED M-H	Existing Conditions			
ROOM TYPE	ROOM NFA ¹	# OF RMS	area totals	
Nurses' Office / Waiting Room	190	1	190	
Interview Room				
Interview Room				
Examination Room / Resting	300	1	300	
Examination Room / Resting	130	1	130	
DMINISTRATION & GUIDANCE			9,542	
General Office / Waiting Room / Toilet	400	1	400	
General Office / Waiting Room / Toilet	660	1	660	
Security @ Main Entry	000		000	
Teachers' Mail and Time Room				
	110	1	11(
Duplicating Room	200	1	200	
Duplicating Room Records Room	60	1	60	
Records Room	120	1	120	
Principal's Office w/ Conference Area	280	1	280	
Principal's Office w/ Conference Area	235	1	235	
Principal's Secretary / Waiting Assistant Principal's Office - AP1	400	1	400	
Assistant Principal's Office - AP2	280	1	280	
Assistant Principal's Office - AP1	285	1	285	
Assistant Principal's Office - AP2	285	1	28	
Supervisory / Spare Office				
Conference Room	400	1	400	
Conference Room	370	1	370	
Guidance Office	130	3	390	
Guidance Office	450	1	450	
Guidance Office	180	1	180	
Spare Office Guidance Waiting Room	160 400	1	160 400	
Guidance Waiting Room	400	1	400	
Guidance Storeroom	75	1	75	
Conference Room	130	1	130	
Adjustment Counselor Office	130	1	130	
Adjustment Counselor	285	1	285	
Career Center				
Records Room				
MCAS Storage	370	1	370	
In-School Suspension	480	1	480	
In-School Suspension Teachers' Work Room	637 500	1	637 500	
Teachers' Work Room	290	3	870	
	250	5	070	
JSTODIAL & MAINTENANCE Custodian's Office			2,265	
Custodian's Workshop				
Custodian's Storage	1,260	1	1,260	
Recycling Room / Trash	.,====		.,200	
Receiving and General Supply	315	1	315	
Storeroom				
Network / Telecom Room	550	1	550	
Network / Telecom Room	140	1	14(
THER Version			8,345	

				PROPOSED				
Existing to Remain/Renovated				New		Total		
ROOM NFA ¹	# OF RMS	area totals	ROOM NFA ¹	# OF RMS	area totals	ROOM NFA ¹	# OF RMS	area totals
			200	1	200			
			100	1	100			
			100	1	100			
			100	3	300			
			100	3	300			
		0			6,205			
		U	300	1	300			
			300	1	300			
			80	1	80			
			100	1	100			
			200	1	200			
			200	1	200			
			300	1	300			
			300	1	300			
			150	1	150			
			150 150	1	150 150			
			150	1	150			
			450	1		(Note: 450/15	= 30 people)	
			150	3	450	SEPARATED	BY AGE GRO	
			150	2	300			
			100		100			
			100 100	1	100 100			
			100	1	100			
					100			
			150	1	150			
			150	1	150			
			350 195	1	350 195			
			190	1	195			
			400	1	400	SPS SPECIF	IC SPACE	
			400	1	400	SPS SPECIF		
			340	1	340			
			340	1	340			
		0			2,645			0
		Ţ	150	1	150			
			250	1	250			
			375	1	375	-		
			400	1	400			
			490 780	1	490 780			
			200	1	200			
					200			
		0			0			(

(refei	to MSBA Ed	MSBA Guidelines (refer to MSBA Educational Program & Space Standard Guidelines)								
ROOM NFA ¹	# OF RMS	area totals	Comments							
100	3	300								
100	6	600								
		5,165								
680	1	680								
100	1	100								
200	1	200								
200	1	200								
375	1	375								
105	1	125								
125	1									
150	1	150								
150	1	150								
120	1	120								
450	1	450								
150	7	1,050								
100	1	100								
100	1	100								
490	1	490								
195	1	195								
680	1	680								
		2,645								
150	1	150								
250	1	250								
375	1	375								
400	1	400								
490	1	490								
780	1	780								
200	1	200								
		0								
		U								

Color Key: Black=HS, Red=MS, Green=Shared

COMBINED M-H	Existing Conditions			
ROOM TYPE	ROOM NFA ¹	# OF RMS	area totals	
Town Maintenance Department	4,790	1	4,790	
Adult Education Wood Shop	1,350	1	1,350	
Town TV Studio	2,205	1	2,205	
Total Building Net Floor Area (NFA)			234,747	
Proposed Student Capacity / Enrollment				
Total Building Gross Floor Area (GFA) ²			353,000	
Grossing factor (GFA/NFA)			1.50	

Existing to Remain/Renovated		New		Total				
ROOM NFA ¹	# OF RMS	area totals	ROOM NFA ¹	# OF RMS	area totals	ROOM NFA ¹	# OF RMS	area totals
		0			182,140			0
					1,360			
					273,210			
					1.5			#DIV/0!

¹ Individual Room Net Floor Area (NFA)

Includes the net square footage measured from the inside face of the perimeter walls and includes all specific spaces assigned to a particular program area including such spaces as non-communal toilets and storage rooms.

² Total Building Gross Floor Area (GFA)

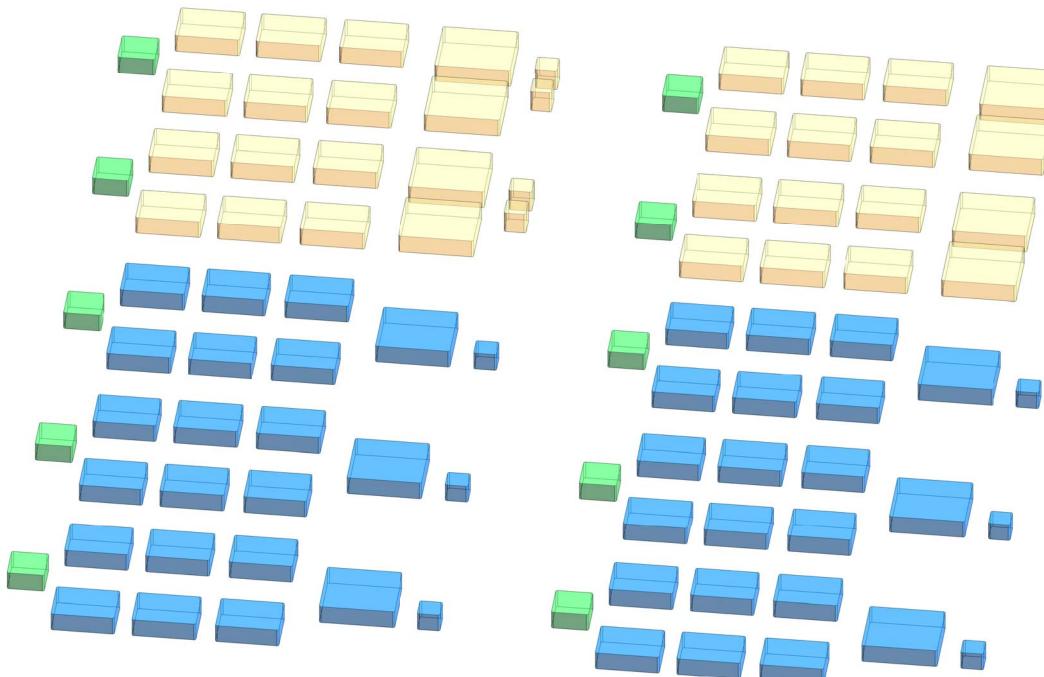
Includes the entire building gross square footage measured from the outside face of exterior walls

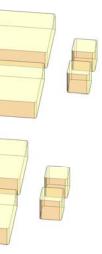
	Proposed Space Summary" is true, complete and accurate and, except as agreed to in writing by the Massachusetts School Building Authority, in delief. A true statement, made under the penalties of perjury.
Name of Architect Firm: _	
Name of Principal Architect:	
Signature of Principal Architect:	
Date: _	

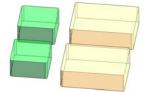
MSBA Guidelines (refer to MSBA Educational Program & Space Standard Guidelines)				
ROOM NFA ¹	# OF RMS	area totals	Comments	
		163,906		
		1,360	172	
		233,920	245,859	
		1.43	1.50	

accordance with the guidelines, rules, regulations and policies of the Massachusetts

CORE ACADEMIC SPACES



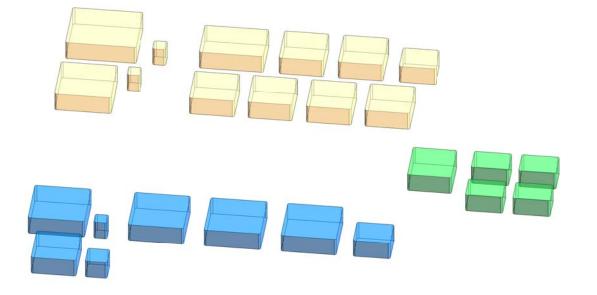


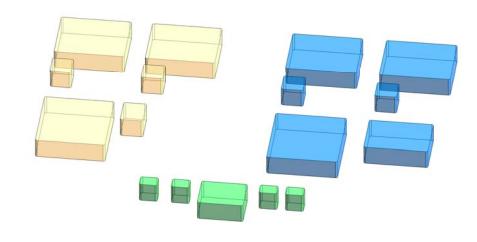






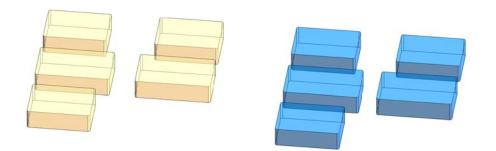


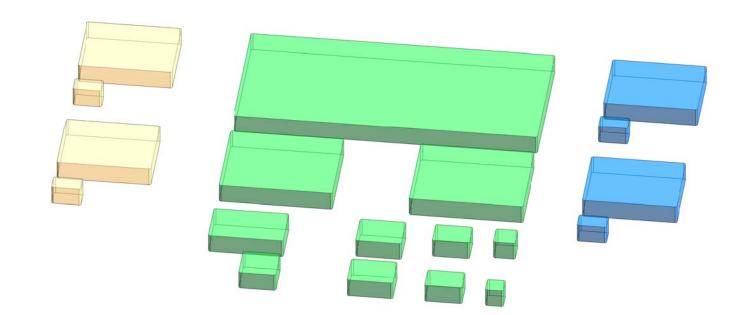




HEALTH & PHYSICAL **EDUCATION**

VOCATIONS & TECHNOLOGY

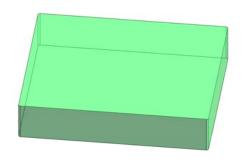




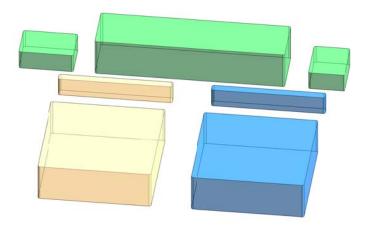
ART & MUSIC

LEARNING COMMONS



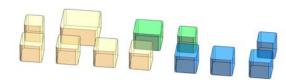


DINING & FOOD SERVICES

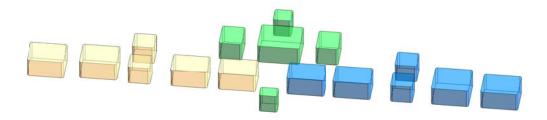


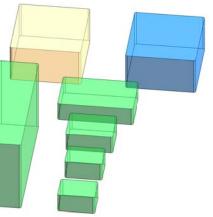


GUIDANCE

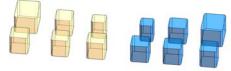


ADMINISTRATION





MEDICAL



CUSTODIAL & MAINTENANCE

