

PROJECT TEAM

Crabtree, Rohrbaugh & AssociatesArchitectural, Interior Design, CA

John Beddia, AIA, LEED AP
Principal in Charge

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Director of Design

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John Yarnall
Construction Administration

Lori Walls
Director of Client Relations

Global Engineering Solutions MEP. FP & Net Zero

Essi Najafi Principal

Vassilis Skardis, PE Sr. Mechanical Engineer

Farshad Majidian, PE Sr. Electrical Engineer

Mark Wilson, CPD, LEED AP Sr. Plumbing Engineer

Laleh Zargarinejad, PE Sr. Fire Protection Engineer

Carroll Engineering Site/Civil Engineering

Craig Shannon, PE Civil Engineer

Columbia Engineering, Inc.Structural Engineering

Randall Haist, PE Principal

MK Consulting Engineers
Landscape Architecture

David Locke, FASLA Landscape Architect

Nyikos Foodservice

Jay Garcia, FCSI Principal

Educational Systems Planning Technology

Bryan Jones Multi-Media AV Designer

Forella Group Cost Estimating

Peter Forella Principal

ECS UnlimitedEnvironmental & Geotechnical

Gregory McIsaac, CPG Environmental Department Manager

Metropolitan Acoustics Acoustics & Audio/Visual

Felicia Doggett Principal Consultant

Prince George's
County Public
Schools

AGENDA

Discuss Preliminary Schedule Review Site Analysis Review Educational Specifications

PROJECT SCHEDULE (DRAFT)

PRINCE GEORGE'S COUNTY PUBLIC SCHOOLS PRELIMINARY MASTER PROJECT SCHEDULE WILLIAM WIRT MIDDLE SCHOOL REPLACEMENT SCHOOL Phases Calendar Months 2019 JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC 2020 JAN FEB MAR APR MAY JUN JUL AUG SEPT OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEPT OCT 2018 JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC Schematic Design Initial Design Meeting with PGCPS Finalize Educational Specifications Develop Schematic Floor and Site Plans Develop Schematic Floor and Sile Plans Design Meeting with PGCPS to Review Plans Kick-dil Meeting with Comulants Submit Mand, Referral Form to M-MCPPC Design Meeting with PGCPS to Review Plans Finalize Plans and Develop Esterio Model Life Cycle Cost Anal, of Bigl. Sys. Design Meeting with PGCPS to Finalize Design Final Approval from BOC Submit SD Submission to IAC. IAC Review of SD Subm. IAC and Review Receive Comments and Provide Responses Consultant Coordination Meeting Consultant Coordination freeling Submit NRI to M-NCPPC Submit Plan to M-NCPPC for Planning Review Roceive SD Approval from IAC Consultant Coordination Meeting Finalize Plans and Elevations Submit SWM Concept Report to PG Co. Submit Syran Concept report to PG Co. Finalize Butting Systems Submit SDP for SWM ESC to PG Co. (Assuming SWM Concept Approval) Consultant Coordination Meeting Submit Drawings to Cost Estimator Final Approval from BOE Submit DO Submission to IAC and DGS IAC and DGS Review of DD Subm. IAC and DGS Review Receive Comments and Provide Responses Construction Documents struction Documents Consultant Coordination Meeting (if needed) 50% CD's - Solicit Pier Review Pricing from DPIE Pier Review Certified Firms Receive SDP Comments and Respond Receive DD Approval from IAC Consultant Coordination Meeting SWM/ESC SDP Approval & Submit for Fine Grading Permit Finalize Drawings Receive SDP Approval Submit Drawings to Cost Estimator Final Approval from BOE Sub. CD Submission to DGS DGS Review of CD Subm. DGS Review Receive Comments and Provide Pre-Bidding Submit to County (DPIE) for Building Permit Submit to County (DPIE) for Builder In-House Constructability Review Receive Approval from DGS to Bid Final Revisions Send Documents to CRA Send Documents to Printer Bid Solicitation Receive Building Permit from County (DPIE) Bids Due @ 2:00 P.M. Post-Bidding Board Approval of Intent to Award Issue intent to Award Letter Receive Approval from State Receive Insurances, Bonding & Exec. Contract from Contractor Receive Exec. Contract from Owner Issue Notice to Proceed 2019 2020 - 2020 - 2020 - 2020 - 2021 Calendar Months Construction New Construction Move-in to New School Demolition of Existing Building Final Closeout

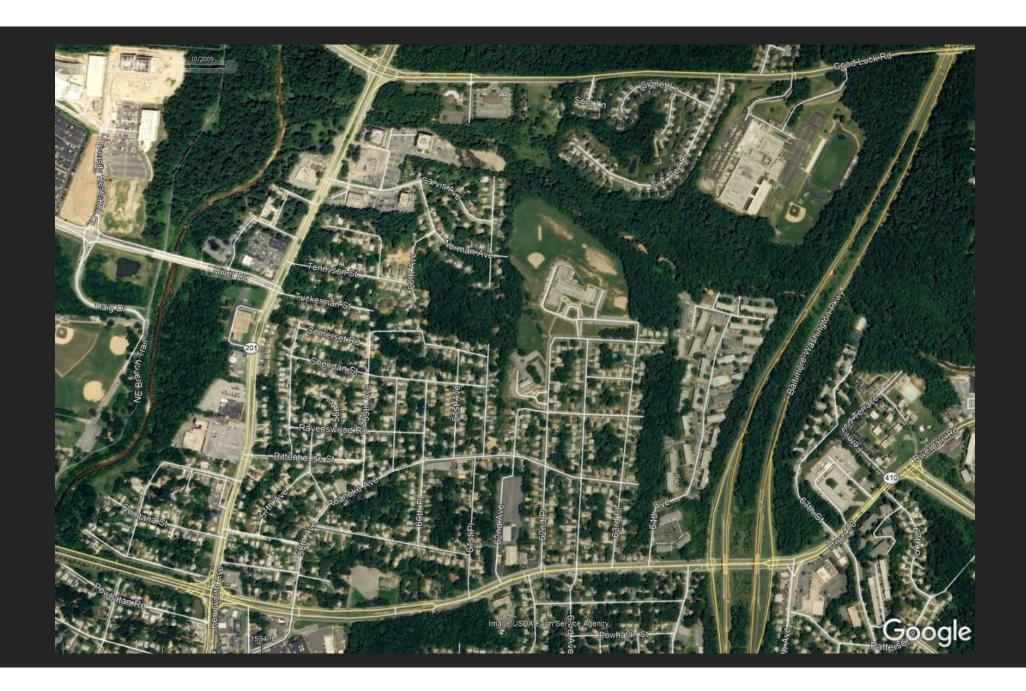
PRINCE GEORGE'S COUNTY PUBLIC SCHOOLS

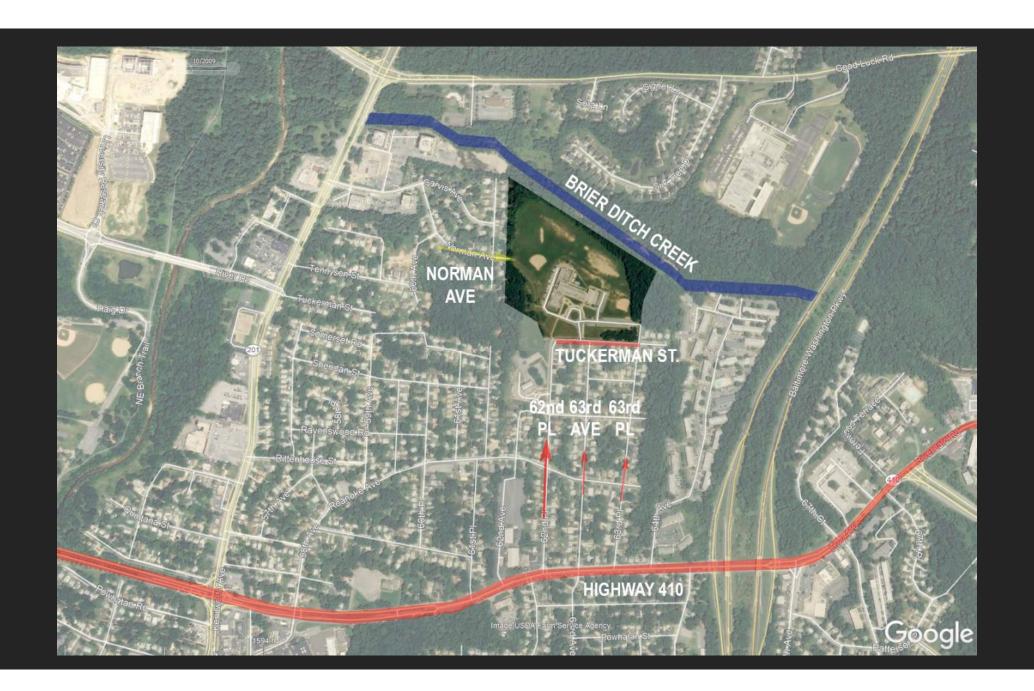
PRELIMINARY MASTER PROJECT SCHEDULE

WILLIAM WIRT MIDDLE SCHOOL REPLACEMENT SCHOOL

Phases						20	18											20	119
Calendar Months	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	Jl
Schematic Design		SCHEMAT	IC DESIGN																
Initial Design Meeting with PGCPS Finalize Educational Specifications	1/31/2018																		
Develop Schematic Floor and Site Plans																			
Design Meeting with PGCPS to Review Plans Kick-off Meeting with Consultants	_	2/21/2018								-					-				
Submit Mand. Referral Form to M-NCPPC																			
Design Meeting with PGCPS to Review Plans Finalize Plans and Develop Exterior Model			3/13/2018																
Life Cycle Cost Anal. of Bldg. Sys.																			
Design Meeting with PGCPS to Finalize Design Final Approval from BOE	-			4/4/2018															
Submit SD Submission to IAC																			
IAC Review of SD Subm.					REV	1EW													
IAC and Review																			
Receive Comments and Provide Responses															-				
Newson Cherry																			
Design Development				9		DES.	DEVELOP	MENT							_				-
Meetings with Faculty and Staff Perform Geotech Work	-								-		-	-	_		-			-	\vdash
Consultant Coordination Meeting													0						
Submit NRI to M-NCPPC Submit Plan to M-NCPPC for Planning Review	8			4											-				\vdash
Receive SD Approval from IAC													8						
Consultant Coordination Meeting Finalize Plans and Elevations																			
Submit SWM Concept Report to PG Co.																			
Finalize Building Systems Submit SDP for SWM/ESC to PG Co.															-				
(Assuming SWM Concept Approval)	3																		
Consultant Coordination Meeting Submit Drawings to Cost Estimator												- 5							
Final Approval from BOE	3			8															
Submit DD Submission to IAC and DGS																			
													12					25	

SITE ANALYSIS









WETLAND MEADOW POTENTIAL SITE ACCESS NEW BUILDING PARKING Mis Google





Example Site Phasing for Discussion

PRINCETON AVENUE



EDUCATIONAL SPECIFICATIONS

Wil	liam Wirt Middle School Program	Grades	5, 7, & 8	- 3 Team	s Per Grad	le			1/17	2018	
	ROOM/SPACE	TEACHING STATIONS	NUMBER EACH	SF EACH	TOTAL	SF TALLY		STUDENTS / ROOM	CAPACITY		COMMENTS
ADMINISTR	RATION	170	,	0 9	13	10	5,400		1 sb	120	-
I la van I		1			- CARAT			,		- 1	
01.01	ADMIN. ASSISTANT'S OFFICE ADMIN. WORKROOM	-	1	120 200	120	-		_		- 4	
01.02	BUSINESS MANAGERS OFFICE	1	1	150	200 150	-	5		-	3.5	
01.03	CONFERENCE ROOM	1	4	300	300	-	- 51	-	-	20	
01.05	ENTRANCE LOBBY		4	1000	1000	- 18	- 4	-	-	200	
01.06	MAIL ROOM		6 1	150	150	-		-	-		
01.06	PRINCIPAL'S OFFICE	1	4	230	230		9 93	-	9 8	8.0	
01.08	RECEPTION / WAITING	1	1	600	600	-				0 0	
01.09	SECURITY CENTER - OFFICE		1	200	200	-	- 10				
01.10	STAFF BREAK ROOM		1	800	800		9		-	9 9	
01.11	STORAGE ROOM (General Supplies)	-	1	250	250			_			
01.12	TEXT BOOK ROOM	- 1	t:	600	600			-1		-	
01.13	STAFF TOILET	- 1	1	8	- 1		9			9.0	
01.14	INSTRUCTIONAL SPECIALISTS	- 1	-	1		- 1			-	- 33	
01.15	COLLABORATION SPACE	- 1	1	200	200		- 2	_		- 22	
01.16	WORKSTATIONS	-	5	120	600		1 1			303	
- P		1	1000		- 1070						
2 GUIDANCE	/ STUDENT SERVICES	100	1	20 10	13	- 20	1.360	- 4	1 13	183	
		1	100		1 1		100000				
02.01	RECEPTION / WORK AREA	- 1	1	300	300	- 1		- 1	1		
02.02	CONFERENCE / TESTING ROOMS	1	2	250	500		. 3			- 33	5
02.03	OFFICES		3	120	360	-			-		
02.04	RECORDS STORAGE ROOM	1	1	150	150		8 9			9.8	
02.05	TOILET (Adult)		1	50	50					-89	<u> </u>
HEALTH	E-XI- M.	20 M	- 23	A	100	W	775			100	
		I									
03.01	COTS		2	100	200	- 1			8 8		
03.02	OFFICE		1	100	100		1			_ § §	
03.03	RECEPTION / WAITING		ŧ	200	200						
03.04	STORAGE	1 3	1	50	50		3		3 3	88	
03.05	TOILET	- 3	2	50	100		- 8			-80	
03.06	TREATMENT AREA	1	1	125	125						

Wil	liam Wirt Middle School Program	Grades (5, 7, & 8	- 3 Teams	Per Grade	9		1/17/2	018
	ROOM/SPACE	TEACHING STATIONS	NUMBER EACH	SF EACH	TOTAL	SF TALLY	STUDENTS / ROOM	CAPACITY	COMMENTS
ACADEMIC	CORE AREAS	1			-	- 1	55,700	-	
04.01	GRADES 6 READING		3	850	2550	- 1	25	75	T
04.02	GRADES 6 MATH		3	850	2550	- 10	25	75	(d)
04.03	GRADES 6 SOCIAL STUDIES	_ i _ i	3	850	2550		25	75	314
04.04	GRADES 7 READING	1	3	850	2550		25	75	
04.05	GRADES 7 MATH	1	3	850	2550		25	75	3 3
04.06	GRADES 7 SOCIAL STUDIES		3	850	2550		25	75	.00
04.07	GRADES 8 READING		3	850	2550		25	75	
04.08	GRADES 8 MATH	1 1	3	850	2550	12	25	75	19 19
04.09	GRADES 8 SOCIAL STUDIES	10.0	3	850	2550		25	75	33.3
04.10	FLEX CLASSROOMS		3	850	2550		25	75	
04.11	ESOL CLASSROOMS	1000	3	850	2550		20	60	One per Grade Group
04.12	AVID CLASSROOMS	10 0	3	850	2550		20	60	One per Grade Group
04.13	READING CLASSROOMS		3	850	2550		20	60	One per Grade Group
04.14	HEALTH LAB		3	850	2550		25	75	One per Grade Group
04.15	ALTERNATIVE EDUCATION ROOMS	19 3	2	450	900	- 18	- 8 - 1	- 3	ISS / Mediation
04.16	COLLABORATIVE LEARING AREAS	10.00	3	1050	3150	- 16	23 12		Independent and informal learning areas
04.17	OUTDOOR LEARNING AREAS	2 3	3	1000	THE ST	- 18	3 1	3	Size can vary from 100-1000
04.18	SCIENCE LAB		8	1200	9600		24	192	
04.19	SCIENCE PREP	10 3	3	200	600	16	18 16	- 3	One per Grade
04.20	SMALL GROUP RESOURCE ROOMS		6	400	2400	- 18	- 3		2 Per Team / Paired for Flexibility
04.21	SPEECH / OT / PT		1	300	300				
04.22	STEM LAB		1	1800	1800	- 16	25	25	- 19 19
04.23	STORAGE	13 8	3	300	900		- 3		33 = = =
04.24	ASSISTANT PRINCIPALS	1	3	150	450				One per Grade
04.25	TEACHER SUPPORT AREAS		3	300	900	19	- 3	9	One per Grade

Willian	m Wirt Middle School Program	Grades	6, 7, & 8	- 3 Team	s Per Grad	е		- 10	1/1	7/2018	
	ROOM/SPACE	TEACHING STATIONS	NUMBER EACH	SF EACH	TOTAL	SF TALLY		STUDENTS / ROOM	CAPACITY		COMMENTS
SPECIAL EDI	CATION						3,550			- 10	
I los os I I	CLASSROOMS			acol	loose	ï	- 19	ï	-	- 40	
	DE-ESCALATION	i	3	800	2400	_	- 0	-	-	6.00	
	LIFE SKILLS LAB	1	+	90 400	90 400	-		-	-	-	
	CONFERENCE ROOM	1	1	200	200	-		-	-	73 0	
	OFFICES	1	3	120	360		- 29		- 1	27/2	
	STORAGE	-	1	100	100	-	9 19	-	-	-	
JO.UG	STORYGE	-	-	100	100	-	- 2	-		- 9	
MEDIA CENT	ER					'	6,200	'		- 3	
	A STATE OF THE STA	-			1410		10000			1166	
	LIBRARY COMMONS	1	1	3300	3300						
	INDEPENDENT ONLINE LEARNING	1	1	800	800		19		8 (1	18 3	
	PRODUCTION MULIMEDIA STUDIO		1	310	310					- 0	
	CONTROL ROOM	- 1	1	100	100						
	EQUIPMENT STORAGE	1	1	250	250		18			18 3	
	OFFICE	1 1	1	150	150				3 3	18.0	
	STAFF DEVELOPMENT / CONF ROOM		1	750	750						
	TELECOM HEAD END ROOM		1	200	200		1 1		3 3	1618	
	TOILET (Staff)	1	1	40	40		g (8		ā - 8 s	1913	
	WORKROOM		1	300	300						
VISUAL ARTS		2511 00		20 - 10	-		3,100		0 1/5		
				(2) (2)							S
	STUDIO		2	1300	2600			25	50	3	4
	STORAGE	j	1	100	100						
07.03	KILN		2	200	400					- 3	
PERFORMING	ARTS				- 11		8,335		- 4		
		1		11 110		ç (X				501	Time to the second
08.01	BAND / ORCHESTRA ROOM		1	1800	1800			25	25		
08.02	CHORAL / KEYBOARD ROOM		1	1500	1500			25	25	18	51
	CHORAL STORAGE		1	100	100	()				- 1	6
08.04	INSTRUMENT STORAGE	1	1	350	350						
08.05	INSTRUMENT PRACTICE ROOMS		1	160	160	3 3		8	9	- 8	<u> </u>
08.06	STAGE SUPPORT		1	850	850	ÿ			3	3	(i)
	STAGE SUPPORT		1	1250	1250						
80.80	SOUND AND LIGHT ROOM		1	75	75			3	1 7	8	5
	STORAGE	1	1	450	450						
08.10	DANCE STUDIO	i	1	1800	1800			25	25	- 0	£
	BATHROOM W CHANGING AREA		2		500			\$ 550	3 201	183	\$

Wil	liam Wirt Middle School Program	100000000000000000000000000000000000000	6, 7, & 8	- 3 Team	ns Per Grad	е		- 4	1/	17/2018	
	ROOM/SPACE	TEACHING STATIONS	NUMBER EACH	SF EACH	TOTAL	SF TALLY		STUDENTS / ROOM	CAPACITY		COMMENTS
PHYSICAL	EDUCATION			(i) (i)		8 7	14,750	25 Y	0		
09.01	LOBBY	- 1	1	1000	1000	3 .					19
09.02	GYMNASIUM		1	5800	5800			100	100		
09.03	BLEACHEER SEATING		1	3400	3400			9	9		9
09.04	DANCE STUDIO	1 0		150	0				3 3		2
09.05	FITNESS ROOM		1	1400	1400						
09.06	LAUNDRY		1	100	100			ši	1 1		15
09.07	LOCKER ROOMS/ SHOWERS		2	850	1700						
09.08	OFFICES (Department)		1	450	450			3 1	3		3
09.09	STORAGE		3	300	900			2 1	3		
STUDENT	DINING AND FOOD SERVICE			V - V	-	4 (10.070	0 0	- 0	-	8
							The same				
10.01	CAFETERIA / COMMONS		1	6000	6000						
10.02	CHAIR STORAGE		1	600	600						
10.03	FOOD SERVICE RECEIVING		1	200	200				5 - 8		\$
10.04	KITCHEN	1 3	1	2000	2000	3	7	2 - J	7		187
10.05	OFFICE		1	120	120						
10,06	SERVING AREA		1	1000	1000						8
10.07	TOILET / LOCKER ROOM	-	1	150	150	-		4	- 3		4.E
MAINTENA	NCE AND CUSTODIAL	4 /		87 - V		di d	1,350	0 0	()		
111.01	CUSTODIAL OFFICE	1 1	†	150	150		F 1	- 1	- 1	i	
11.02	CUSTODIAL STORAGE	1 3	1	300	300) 3		
	and the second s			600	600						
11.03	RECEIVING AND Storage TOILET / SHOWER / LOCKERS	1	1	660	300						

4	Willi	am Wirt Middle School Program	G	rades (5, 7, & 8	- 3 Tean	ns Per Grad	е		4	1/	17/2018	
		ROOM/SPACE		TEACHING STATIONS	NUMBER EACH	SF EACH	TOTAL	SF TALLY		STUDENTS / ROOM	CAPACITY		COMMENTS
2 CON	MUNIT	YUSE		100	-				2,520				(B)
				- 40	- A-4 - V	a form core							
	12.01	CLASSROOM / MEETING ROOM		- 8	1	800	800	9 9	9	8	9 9		3
	12.02	FAMILY ROOM	- 1		1	- 300	300						
	12.03	PANTRY			1	300	300				8 3		3.6
-	12.04	RECEPTION	i_	- 24	1	150	150	3			8 8		
	12.05	PARTNER OFFICE	- 1		1	250	250						
	12.06	CIRCULATION ETC.		- 0	1	720	720		5		9		<u> </u>
-													12
TOT	ALS	-	- 1	- 10									Name and the second
1	8	- C				2 8		3 3		3	8 3		
10.		Total Net Square Footage							114,110		V 0		
67	1 1	Grossing Factor	0.5	- 2					57,055	9 - 3	2 8		
\$		TOTAL GROSS AREA							171,165		1,447		
		Middle School Capacity						1,447					
	1	85% (per State Requirements)						1,230		sie - s			s de
	1	TOTAL SCHOOL CAPACITY	1	- 6				1,230	7		8 8		8 = 1 1 = 2
3 SITE	REQU	REMENTS / ATHLETICS		- 1	,			_	400				
- Control of	[13.01]	(1) 400 METER TRACK - 200 METER STRAM	GHT	ï	i	- 1	1				1	- 1	(E)
1	13.02	(2) BASKETBALL COURTS		_									
	13.03	(00) BUS PARKING SPACES				33	11100		5	<u> </u>	5 - 3		May be used for play area during day
	13.04	EXTERIOR GROUNDS EQUIPMENT STORAGE	GE		1	400	400	7 3	8		1 1		
	13.05	(1) SOCCCER FIELD	i			1.14%							
18	13.06	(1) SOFTBALL FIELD				8 0		i .			2 "		
	13.07	(1) BASEBALL FIELD (IF FEASIBLE)										-	
_	13.08	GARDENS AND OUTDOOR LEARNING SPACE	neg	-71		- 3		7		_	9 99		193







2020's ??????

21ST CENTURY LEARNING

The industrial age factory model

- Information is rare
- Limited technology
- Teacher centric
- Learn in classroom
- Focus on 3 R's
- Passive learning
- Conformity expected
- Assertive assessment
- Curriculum fragmented

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21ST CENTURY LEARNING

The innovation age model

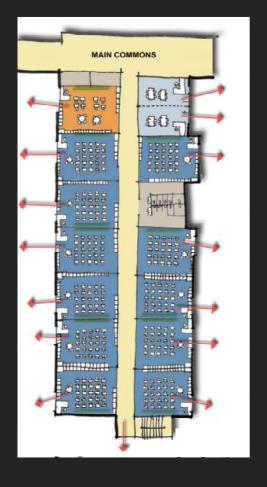
- Information is a commodity
- Ubiquitous technology
- Student centric
- Learn anywhere
- Develop 4 C's
- Active learning
- Individuality celebrated
- Demonstrative assessment
- Curriculum integrated

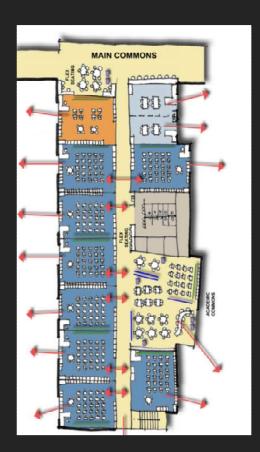
COLLABORATIVE ENVIRONMENTS

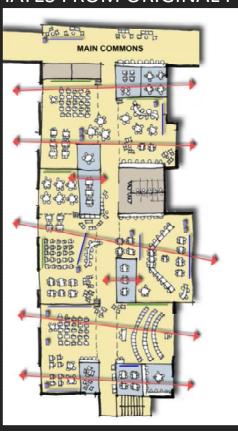


21ST CENTURY LEARNING

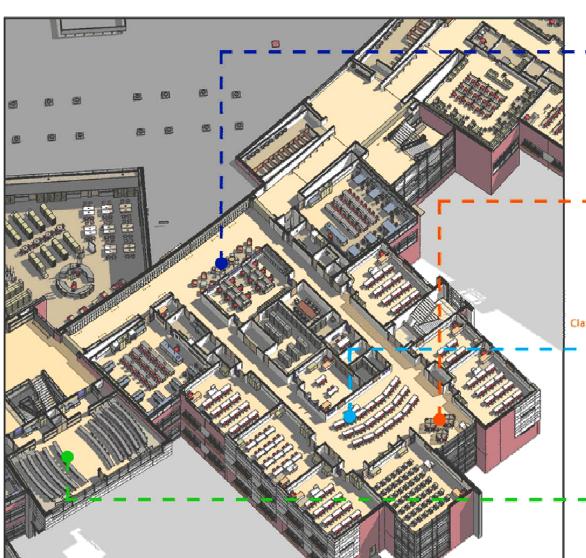
EARLY STUDY CLASSROOM WING STUDIES DEVIATES FROM ORIGINAL PROGRAM







WHAT IS YOUR SCHOOL COMMUNITY COMFORTABLE ENGAGING?



CREATIVITY

Individual Study 1 - 4 People



CRITICALTHINKING

Small Group Collaboration 4 - 12 People



COLLABORATION

Classroom Collaboration 12 - 25 People



COMMUNICATION

Large Group Collaboration 25 - 90 People

