Part 5 - Cost Estimate

5.1 Cost Estimate

The cost estimate for Kellogg Middle School is based on a 90% draft of this Schematic Design Report. It considered all site improvements required after demolition of the existing school and the construction of the new school building with a 123,420 SF four-story learning suite wing and a single story wing that contains the commons, administration, gymnasium, and performance spaces. The complete cost estimate is provided as a separate attachment to this report.

BUDGET ALIGNMENT

A budget alignment process is provided at the end of the Schematic Design phase to reconcile the project scope with the project budget. The outcome of the SD Cost Estimate is summarized in the following chart:

Kellogg Middle School // SD Cost Estimate									
Construction	SD	Difference	% Over Budget						
Budget	Cost Estimate	(Δ)	% Over Budget						
\$33,725,000	\$46,738,275	(\$13,013,275)	38.59%						

During the SD phase, the budget was adjusted to include escalation and a reduced to offset owner costs resulting in the SD Construction budget of \$33,725,000 for the building and site work. Significant cost reduction measures are required to reconcile the cost difference (Δ) of \$13,013,275 over budget.

These budget alignment proposals are referred to as Budget Cost Reductions (BCR). The BCRs considered program square footage revisions, an updated school capacity calculation, and reviewed building systems, construction materials and methods, and finishes selections. The SD Report does not reflect any of the scope modifications proposed by the following Budget Cost Reduction or the final direction taken by PPS. This section captures the approved scope moving forward.

BUDGET COST REDUCTION (BCR)

Specific budget reconciliation targets, referred to as Budget Cost Reductions, have been proposed to the District for inclusion in the budget alignment process. The BCRs were presented with a description, associated cost reduction, and total cost savings to the District for approval prior to the Design Development phase. The BCR Summary worksheet on the following pages documents the District's decision for approval (YES) or denial (NO) for each proposed BCR. The third option is a deferred decision (ADD ALT - DD), which continues development and analysis of the component as an Add Alternate in the following design phase. All approved BCRs will be incorporated into the design moving forward. The BCR scope reductions are summarized in a worksheet on pages 156-157. The BCR reductions can be categorized as:

School Capacity Update

The District provided an updated middle school utilization rate of 85.7% that represents the current middle school use based on one free period in the typical seven period day. This is a divergence from the 75% utilization rate indicated in the District's 2012 Long Range Facility Plan that was used for the previous capacity calculation. The capacity calculation update on the following page reflects the BCR reductions to classroom size and updated classroom capacity range (27-30 students/classroom). The two capacity calculations provided reflect fluctuating student per class assignment and school enrollment demands.

The outcome is a Functional Capacity of 680 Students and a Maximum Capacity of 746 Students. Classrooms that are utilized for the capacity calculation are referred to as Teaching Stations. The other learning spaces that are not considered Teaching Stations (indicated with a 0 under Teaching Stations in the capacity calculation) do not count toward the school capacity. If these spaces were included as Teaching Stations in the calculations, the resulting gross square footage per student would be below the recommended benchmark for both a middle school and an elementary school.

By increasing utilization rate and defining classroom capacity range, the District's budget and capacity goals are aligned.

Program Square Footage Revisions

To reduce the overall size of the school build reductions were made to program square for as "Preferred" or "Scope Add" spaces in the School Program (See Part 2.2.2 - Programmi

"Preferred" or "Scope Add" spaces that wer

- ESL Classroom ADD*
- Extended Learning Areas reduced to
- Science Storage (3 prep and 1 storag
- Classroom Conference Room
- Kiln Room (Art Storage room to be k
- Dance (this is included in Performing
- Media Center ADD*(650 sf excluded
- Table/Chair Storage at Gymnasium
- Reception/Secretary ADD*
- Principal's Administrator
- Administration Conference Room AD
- Administration Restrooms ADD*
- Records Office (Records Storage is pr
- Counseling Conference Room
- Sensory Support Rooms
- Learning Center ADD*
- Wellness Room
- Social Emotional Skills Room (SES)
- Special Needs Toilet ADD*
- Parent/Community Room ADD*
- Kitchen Restroom ADD*
- Staff Restrooms
- IDF Room (1 per floor remains)
- Electrical Room
- Custodial Work Area
- Outdoor Equipment Storage

"Preferred" or "Scope Add" spaces that wer the District from these square footage reduced

- STEAM Lab
- Student Lockers
- Media Center ADD* (partial space in
- Commons ADD*
- Intensive Skills Room (Special Educat
- * Spaces indicated as "ADD" are square foot increases in addition to the required space



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DD*		
provided)	SCHEDULE	4
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See the floor plan diagrams on the following page for all proposed BCR square footage reductions and excluded spaces. Included in the square footage revisions (but not shown in the floor plan diagrams) are size reductions to each of the general classrooms. They were reduced by 80 sf, from 980 sf to 900 sf. This reduction is accounted for as a separate BCR square footage reduction option in the BCR summary worksheet (Line 24) found on pages 156-157. All of these square footage revisions reduce the overall school square footage to align the project costs with the budget.

Systems, Materials, and Finishes Review

Building systems, construction materials and methods, and finishes identified in the SD report have been included as BCR options to limit material, labor, and maintenance cost. These revisions provide material and systems options to align project costs while maintaining quality and aesthetics.

BUDGET ALIGNMENT CONCLUSION

The Budget Cost Reduction direction brings the SD project scope within the project budget. The BCRs that have been approved (YES) or deferred into Design Development (ADD ALT - DD) result in Budget Cost Reductions total of \$12,802,541.

Kellogg M	Kellogg Middle School // SD Cost Estimate with BCR Construction SD Cost Estimate Difference % Over Budget Budget with BCR* (Δ) % Over Budget						
			% Over Budget				
\$33,725,000	\$32,900,785	\$824,215	-2.44%				

*BCR Total = \$12,802,541 - See BCR Summary for additional information

The result of the BCR process is a revised SD Estimate of \$32,900,785. This is \$824,215 (2.44%) under the Construction Budget of \$33,725,000.

The outcome of the BCR process is a 98,489 sf Kellogg Middle School. The site plan, floor plans, and massing shown on the following pages represent the PPS approved BCR outcomes. The District's budget alignment direction continues to meet PPS's goals and needs for middle schools. All budget alignment decisions will be incorporated into the design during the Design Development phase. Further cost adjustments will continue into DD as District requirements are confirmed.

CAPACITY CALCULATION KELLOGG MIDDLE SCHOOL PROGRAM

FUNCTIONAL CAPACITY

Area	Total SF	÷	SF/TS	=	Teaching Stations	*	Utilization Rate	= Available *	Ave Students per Classroom	=	# of Students (Based on Util.)	SF / Student
General Classrooms	19,800 SF		900 SF		22	-	85.7%	18.85	27.5		518	32.73
Science	6,000 SF		1,200 SF		5		85.7%	4.29	27		116	44.44
PE / Athletics	6,800 SF		3,400 SF		2		85.7%	1.71	27		46	125.93
ESTEAM/Maker	1,200 SF		1,200 SF		0		85.7%	0.00	27		0	44
Art	1,200 SF		1,200 SF		0		85.7%	0.00	27		0	44
Performing Arts	1,400 SF		1,400 SF		0		85.7%	0.00	27		0	52
ESL	880 SF		880 SF		0		50.0%	0.00	15		0	59
SPED / Intensive Skills & LC	1,760 SF		880 SF		0		75.0%	0.00	10		0	88
Teaching Stations Total	32,600 SF				29		85.7%				680	
All Areas Total	39,040 SF				-		79.9%				-	
TOTAL BUILDING GROSS SF	98,489 SF											145

OTAL BUILDING GROSS SF 98,489 S

ΜΑΧ CAPACITY

Area	Total SF	÷ SF/TS	= Teaching Stations	* Utilization Rate	= Available *	Ave Students per Classroom	= # of Students (Based on Util.)	SF / Student
General Classrooms	19,800 SF	900 SF	22	85.7%	18.85	30	566	30
Science	6,000 SF	1,200 SF	5	85.7%	4.29	30	129	40
PE / Athletics	6,800 SF	3,400 SF	2	85.7%	1.71	30	51	113
ESTEAM/Maker*	1,200 SF	1,200 SF	0	85.7%	0.00	30	0	40
Art*	1,200 SF	1,200 SF	0	85.7%	0.00	30	0	40
Performing Arts*	1,400 SF	1,400 SF	0	85.7%	0.00	30	0	47
ESL*	880 SF	880 SF	0	75.0%	0.00	15	0	59
SPED / Intensive Skills & LC*	1,760 SF	880 SF	0	85.7%	0.00	10	0	88
Teaching Stations Total	32,600 SF		29	85.7%			746	
All Areas Total	39,040 SF		-	84.4%			-	
TOTAL BUILDING GROSS SF	98,489 SF							1 32

* Additional spaces (ESTEAM/Maker-Art-Performing Arts-ESL-SPED) can include Teaching Stations to increase maximum capacity. However, this would reduce the GSF/Student below 117 GSF/Student, which is below the recommended ratio for elementary schools

** RECOMMENDED GROSS SQUARE FOOTAGE (GSF) per STUDENT

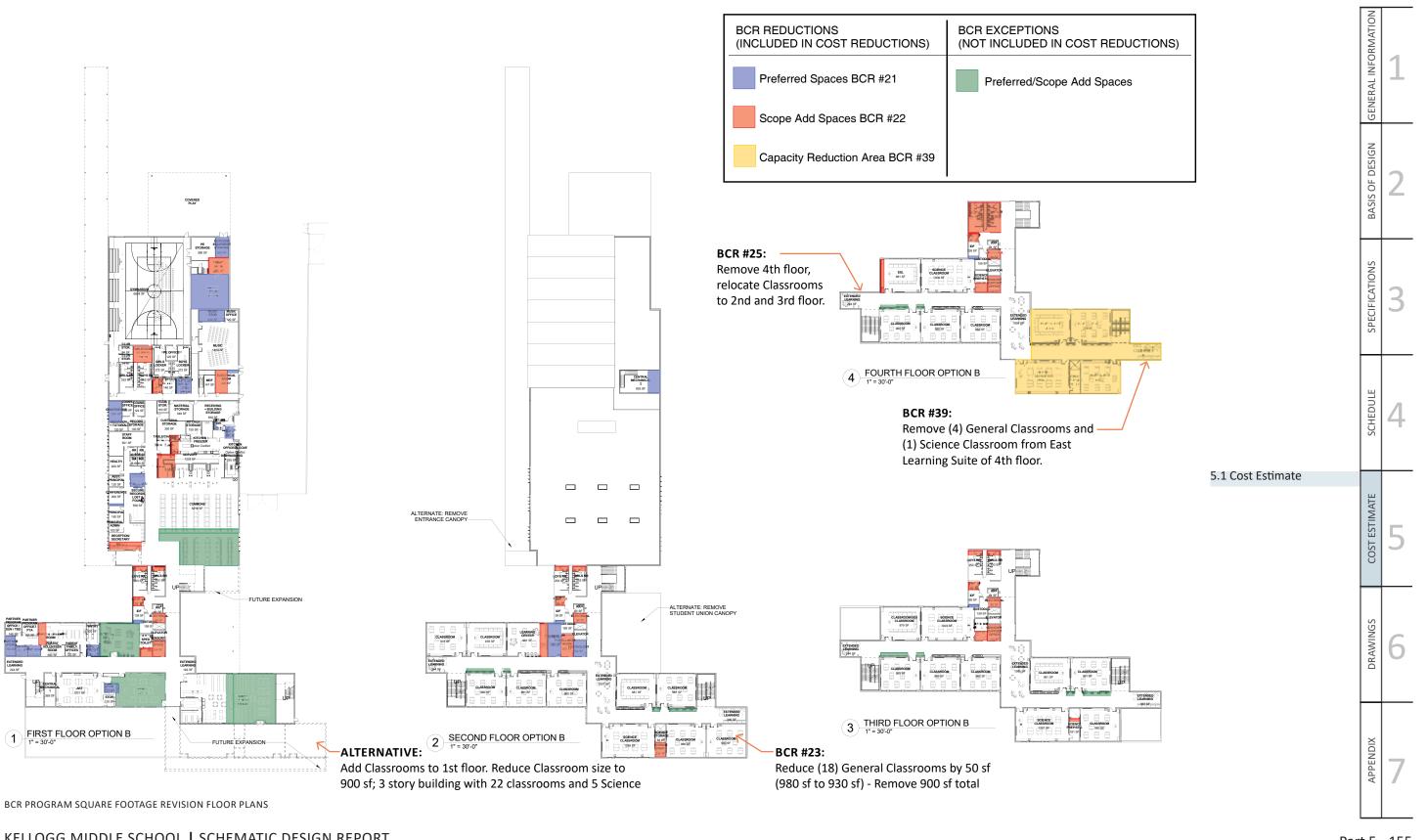
-		
Elementary Schools:	130 GSF/Student	
Middle Schools:	150 GSF/Student	
High Schools:	170 GSF/Student	

BUDGET COST REDUCTION SCHOOL CAPACITY UPDATE

GSF/Student **

GSF/Student **

KELLOGG MIDDLE SCHOOL | SCHEMATIC DESIGN REPORT





KELLOGG MIDDLE SCHOOL PORTLAND PUBLIC SCHOOL DISTRICT 04/12/18

Part 5 - 155



		К	ellogg Middle		Cost Reductions	(BCR) Summar	Y	
		Construction Budget	SD Estimate	Proposed Budget Cost Reductions (BCR)	Revised SD Estimate w/Approved BCR (YES + ADD ALT)	% OVER (Revised SD Budget)	Difference (\$) (Revised SD Budget)	SD Notes
1	Grand Total	\$33,725,000	\$46,738,275		\$32,900,785	-2.44%	(\$824,215)	
2	BUILDING and SITE Total	\$29,630,041	\$41,682,642		\$28,880,101			Does not include demo
3	ESCALATION (8.08% for Estimate)	\$2,408,923	\$3,369,597		\$2,334,648			
4	OFF-SITE IMPROVEMENT ALLOWANCE	\$500,000	\$500,000		\$500,000			
5	DEMOLITION	\$1,186,036	\$1,186,036		\$1,186,036			
6	BCR Total	-	-	\$13,409,691	\$12,802,541			
	BUDGET COST REDUCTIONS - TARGETING BU	ILDING and SITE TO	TAL of:	\$29,630,041	F	PPS BCR APPROVAL		
	SITE BCR BREAKDOWN				YES	NO	ADD ALT - DD	
7	REMOVE nature play area			\$151,000	-	-	\$151,000	Fund raising opportunity
8	REMOVE covered play structure (4,000 SF)			\$163,000	-	-	\$163,000	
9	REMOVE covered walkway on W.side			\$327,000	-	-	\$327,000	Entrance canopy
10	REMOVE covered courtyard on E.side			\$163,000	-	-	\$163,000	Covered courtyard canopy
11	REMOVE site development for educational opportunities			\$184,680	-	-	\$184,680	
12	SUBSTITUTE grass for synthetic turf system			\$412,000	\$412,000	-	-	
13	REMOVE poured in-place radial concrete seatwall - use of salvaged materials anticipated			\$105,032	\$105,032	-	-	
14	REDUCE parking lot to 32 cars (code minimum)			\$35,000	\$35,000	-	-	
15				\$60,000	\$60,000	-	-	
16	SUBSTITUTE chainlink fence for perforated metal perimeter fence			\$87,000	-	\$87,000	-	
17	SITE BCR Total	-	-	\$1,687,712	\$612,032	\$87,000	\$988,680	
18		-	\$3,519,688	-	1.5 7.5		,,	
19	REVISED SITE Estimate w/BCR Total			\$1,831,976				
	BUILDING BCR BREAKDOWN				YES	NO	ADD ALT - DD	
20	REMOVE 6,641 SF (4 Extended Learning Areas & partial commons -800 sf)			\$2,052,069	\$2,052,069	-	-	
21	REMOVE ADDITONAL 4,337 SF - Preferred Program Area - BLUE			\$1,340,133	\$1,340,133	-	-	Exceptions: ESTEAM Lab (1,200 sf), Music Storage (120 sf), SPED Int. Skills (880 sf), Commons ADD (250 sf), Support Space (560 sf)
22	REMOVE ADDITONAL 3,848 SF - Scope Add Program Area - RED			\$1,189,032	\$1,189,032	-	-	Exceptions: Science Prep (300 sf), Student Lockers ADD (665 sf), Media Center ADD (650 sf), Learning Center ADD (80 sf) Commons ADD (720 sf), Kitchen ADD (120 sf) Servery ADD (310 sf), Support Space (1,200 sf)
24	REDUCE (22) General Classrooms (980 sf to 900 sf) and (5) Science Classrooms (1,300 sf to 1,200 sf) by 100 sf - Remove 2,700 sf Total			\$834,300	\$834,300	-	-	
25	REMOVE 4th Story - Reconfigure school as 3 story building with reduced program per BCR #20, #21, #22, #23. Classrooms on all 3 floors Reduces circulation and building core areas by 4,793 sf Functional Capacity = 680 Students Max Capacity = 746 Students			\$1,481,037	\$1,481,037	-	-	Can only be accepted with #21, #22, & #23



	_	_	-	-		-	_	
26	REMOVE operable partitions at extended			\$536,000	\$536,000	-	-	
	learning areas REMOVE sawtooth roof - replace with flat							
27	roof with skylights			\$680,000	\$680,000	-	-	
28	SUBSTITUTE tilt-up walls for all portions of 1 story building			\$60,000	-	-	\$60,000	
29	SUBSTITUTE solid surface countertops for epoxy at S. Classrooms, ESTEAM, Art			\$38,000	\$38,000	-	-	
30	SUBSTITUTE fiber cement or metal rainscreen for brick and s-pearl			\$580,000	-	-	\$580,000	
31	SUBSTITUTE sealed concrete for rubber flooring			\$247,000	\$144,000	-	-	Carpet = \$144,000 savings
32	SUBSTITUTE sealed concrete for stained concrete			\$209,000	\$209,000	-	-	
33	REMOVE acoustical tile ceilings			\$400,000	-	-	\$400,000	If sealed concrete floors are selected, acoustical treatments are required
34	SUBSTITUTE standard VAV mechanical system for Displacement Ventilation and REMOVE radiant floors			\$434,000	-	-	\$434,000	
35	BUILDING BCR Total	-	-	\$11,721,979	\$9,727,829	\$0	\$1,474,000	
36	BUILDING Estimate Total	-	\$38,162,954	-				
37	REVISED BUILDING Estimate w/BCR Total	-	-	\$26,440,975				
38	BCR TOTAL				\$10,339,861	\$87,000	\$2,462,680	
	ALLOWANCES							
39	Offsite Improvements	\$500,000	\$500,000		\$500,000			

Notes:

1. The SD estimate INCLUDES a design contingency allowance of 7.50% (\$2,908,091) for undeveloped design details in this estimate. As the design of each system is further developed, details which historically increase cost become apparent and must be incorporated into the estimate while decreasing the % burden.

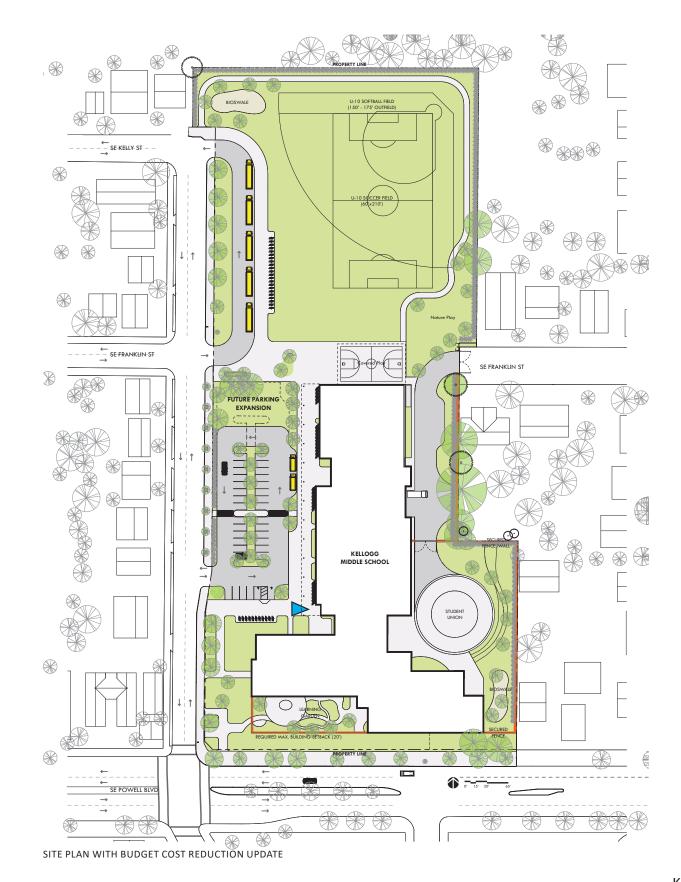
BUDGET COST REDUCTION WORKSHEET WITH PPS DIRECTION



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FIRST FLOOR PLAN WITH BUDGET COST REDUCTION UPDATE

SECOND FLOOR PLAN WITH BUDGET COST REDUCTION UPDATE



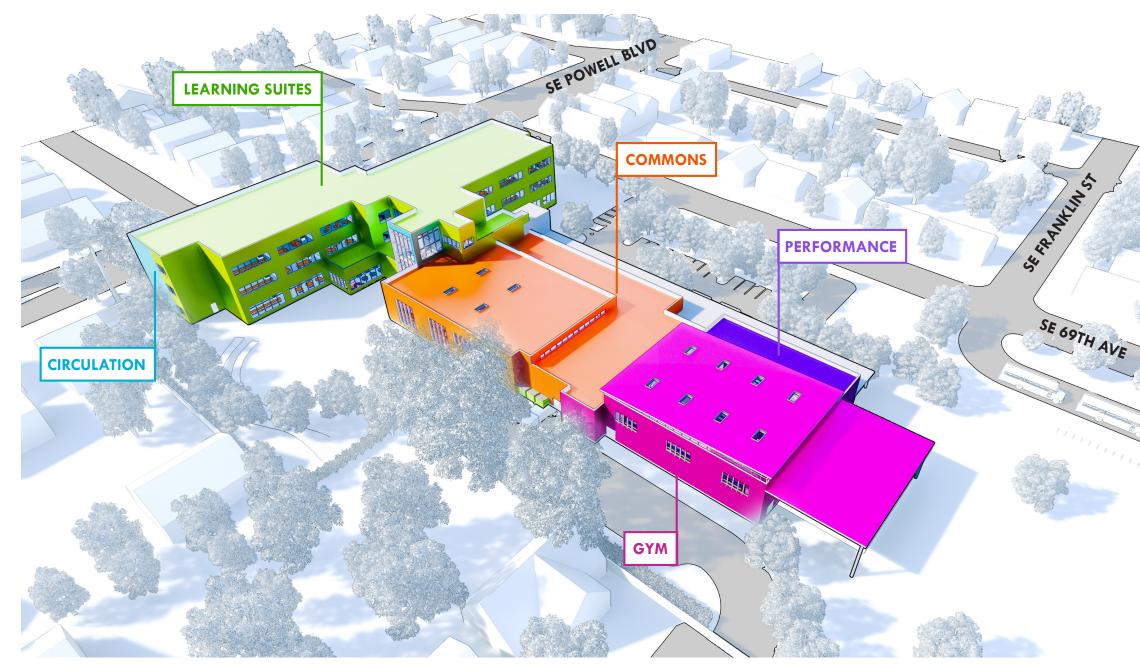
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VIEW OF KELLOGG MIDDLE SCHOOL FROM SOUTHWEST WITH BUDGET COST REDUCTION UPDATE



VIEW OF KELLOGG MIDDLE SCHOOL FROM NORTHEAST WITH BUDGET COST REDUCTION UPDATE



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Kellogg MS Ed Spec Reconciliation

Schematic Design 4/11/2018

PPS Middle School Grades 6 through 8

MIDDLE SCHOOL PROGRAM				Maste	r Planning I	Program		SD Program	n
				Proposed	Proposed	Proposed	Proposed	Proposed	Proposed
REA	Quantity	S.F. Room	S.F. Total	Quantity	S.F. Room	S.F. Total	Quantity	S.F. Room	S.F. Total
CLASSROOMS ²									
Classrooms ³	22	980	21,560	22	980	21,560	22	2 880	19,360
ESL classroom ⁴	1	900	900	1	900	900	1	880	880
ESL Classroom - Scope Add	0	0	0	1	80) 80	() 80) (
Science Classrooms	5	1,300	6,500	5	1300	6,500	:	5 1200	6,000
Science Prep	1	150	150	1	150) 150	1	150	150
Science Storage (chemical storage optional)	1	64	64	1	64	64	1	64	64
Science Prep - Scope Add				2	150) 300	2	2 150	300
Science Storage (chemical storage optional) - Scope Add				2	64	128	() 64	
	6	1,000	6,000	6	1000	6,000	2	2 1000	2,000
Student Lockers (grades 6, 7, & 8) 225 students ⁶	1	190	190	3	190	570	3	3 190	570
Student Lockers (includes 2'-0" clear space in front of lockers) - Scope Add	ł						1	665	665
Conference Room	1	200	200	1	200	200	(200) (
Required			29,364			29,744			27,024
Preferred			6,200			6,200			2,000
Scope Add			0			508			965
Subtotal required + preferred + scope add			35,564			36,452			29,989

Notes: ¹ Planning capacity for Middle School program is 675 students with a maximum of three sections of students at each grade level. Consult PPS Long Range Facilities Plan for determination student capacity for each instructional space. PPS Long Range Facilities Plan for determination student capacity for each instructional space. ² "Specialist" classroom functions such as Title I, Reading, and Math to be accommodated in "Extended Learning" areas

³ Self-contained classrooms that deliver science curriculum for grades 6-8 need to be large enough to provide the additional sinks, outlets, eyewash and work space needs sufficient for a minimum of 32 students in a science classroom

⁴ Room should be divisible into two smaller classrooms

⁵ One Commons/Extended Learning Area @ 1,500 SF required per classroom type (grades 6,7,8). Two per classroom type @ 1,000 SF preferred

⁶ Lockers can be full height; half height lockers should be stacked.

NIDDLE SCHOOL PROGRAM 1									
referred: spaces preferred but not required or applied to area program total				Proposed	Proposed	Proposed	Proposed	Proposed	Proposed
REA				Quantity	S.F. Room	S.F. Total	Quantity	S.F. Room	S.F. Total
XPLORATORY									
Music (Band & Choir) Room ^{7,8}	1	1,400	1,400	1	1 1400	1,400	, ·	1 1400	1,40
Music Office	1	120	120	1	1 120	120	, ·	1 120	12
Art	1	1,200	1,200	1	1 1200	1,200	, ·	1 1200	1,20
Art Storage	1	120	120	1	1 120	120	, ·	1 120	12
Computer Lab	1	980	980	1	1 980	980) (0 980	1 1
			1,200		1 1200	1,200) ·	1 1200	1,20
			100	() (0) (0 0	
			100		1 100	100) (0 100	1 1
			200	() (0) (0 0	
			980		1 980	980) (0 980	1 1
Music, instrument, uniform storage	1	120	120		1 120	120		1 120	12
Required			3,820			3,820)		2,84
Preferred			2,700			2,400)		1,32
Subtotal required + preferred			6,520			6,220			4,160
IEDIA/TECHNOLOGY									
Media Center ¹¹	1	1,650	1,650		1 1650	1,650		1 1650	1,65
Media Workroom (text book/media storage)	1	200	200		1 200			1 200	
Conference/Small Group Study	1	200	200		1 200	200	, ·	1 200	20
Media Office	1	100	100	(0 0	
Media Center	1	1,550	1,550		1 1550	1,550	<mark>)</mark> -	1 650	65
Required			2,050			2,050)		2,05
Preferred			1,650			1,550)		65
Subtotal required + preferred			3,700			3,600			2,700
Notes:									

⁷ Music Room with stage may be elevated 18 inches above adjacent cafeteria; separate with acoustic/operable wall that opens to cafeteria; stage to provide space for dance (or dance floor storage) if not provided elsewhere

⁹ Music room should incorporate instrument storage if not built separately
 ⁹ Science Technology Engineering Arts and Math (STEAM) lab equipped to accommodate science curriculum as well as fabrication and maker space activities
 ¹⁰ Dance optional unless it is part of core program; can be located as pull out floor under stage/music room if it opens to cafeteria

¹¹ 1,650 SF Media Center required; 3,200 SF preferred

Kellogg MS Ed Spec Reconciliation

Schematic Design 4/11/2018

DLE SCHOOL PROGRAM ¹ red: spaces preferred but not required or applied to area program total				Proposed	Proposed	Proposed	Proposed	Proposed	Proposed
red, spaces preferred but not required or applied to area program total	Quantity	S.F. Room	S.F. Total			S.F. Total	Quantity		S.F. Tota
ICAL EDUCATION/ATHLETICS									
Gym (main) seating for 750 person assembly	1	6,800	6,800	1	6800	6,800	1	6800	6
Covered Play Area *	1	4,000	4,000	1	4000	4,000	1	I 4000	4
PE Storage	2	200	400	2	200	400	2	2 200	
Club Storage	3	80	240	3	80	240	3	3 80	
PE Office 12	1	120	120	1	120	120	1	I 120	
Boy's Locker Room 13	1	800	800	1	800	800	1	I 400	
Girl's Locker Room 13	1	800	800	1	800	800	1	I 400	
Table/Chair Storage - Scope Add	0	0	0	1	200	200	(200	
Required			13,160			13,160			12
Scope Add			0			200			
Subtotal required + scope add			13,160			13,360			12
NISTRATION									
Reception/Secretary	1	450	450	1	450	450	1	450	
Health Room/Toilet	1	200	200	1	200	200	1	1 200	
Principal's Office 14	1	180	180	1	180	180	1	I 180	
Assistant Principal's Office ¹⁵	1	120	120	1	120	120	1	I 120	
Workroom/Mail	1	350	350	1	350	350	1	I 350	
Staff Room	1	500	500	1	500	500	1	500	
Conference Room 16	1	180	180	1	200	200	1	I 180	
Restroom 17	2	45	90	2	64	128	2	2 45	
Lost & Found	1	50	50	1	50	50	() 50	
Flex Office	1	120	120	0	0	0	() 0	
Secure Storage/Records ¹⁸	1	150	150	1	150	150	() 150	
Required			2,120			2,178			2
Preferred			270			150			2

Notes: ¹² 120 SF PE Office required; 200 SF office with shower preferred

¹³ 800 SF Locker Rooms required; 1,200 SF preferred; locker room showers are optional

14 180 SF Principal's Office required; 200 SF preferred

¹⁵ 120 SF Assistant Principal's Office required; 150 SF preferred

¹⁶ 180 SF Conference Room required; 200 SF preferred

¹⁷ 45 SF single user, gender neutral restrooms required: 64 SF preferred.
¹⁸ Secure Storage/Records optional only if records securely stored in administration

MIDDLE SCHOOL PROGRAM ¹									
Preferred: spaces preferred but not required or applied to area program total				Proposed	Proposed	Proposed	Proposed	Proposed	Proposed
AREA				Quantity	S.F. Room	S.F. Total	Quantity	S.F. Room	S.F. Total
COUNSELING									
Counselor's Office	2	120	240	2	120	240	1	2 12) 240
Record Storage	1	100	100	1	100	100		1 10) 100
Mediation/Tutorial Room	1	120	120	1	120	120		1 120) 120
Conference Room	1	200	200	1	200	200	(0 200	0 0
Required			460			460			460
Preferred			200			200			0
Subtotal required + preferred			660			660			460



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Kellogg MS Ed Spec Reconciliation

Schematic Design 4/11/2018

PPS Middle School Grades 6 through 8

MIDDLE SCHOOL PROGRAM 1									
Preferred: spaces preferred but not required or applied to area program total				Proposed	Proposed	Proposed	Proposed	Proposed	Proposed
AREA			S.F. Total	Quantity	S.F. Room	S.F. Total	Quantity	S.F. Room	S.F. Total
SPECIAL EDUCATION									
Learning Center ¹⁹	1	800	800	1	1 800	800		1 800	800
Learning Center - Scope Add	0	0	0	1	1 180	180		1 80) 80
Itinerant Offices (Psych/Speech Path/Flex Office) ²⁰	3	80	240	3	3 80	240		0 80) 0
Offices - Scope Add	0	0	0	3	3 70	210		D 70) 0
Special Needs Toilet	1	120	120	1	I 120	120		1 120) 120
Sensory Support Room			150	1	1 150	150		0 150) 0
Intensive Skills Room ²¹	1	980	980	1	1 980	980		1 880	880
Required			1,160			1,160			920
Preferred			1,130			1,130			880
Scope Add			0			390			80
Subtotal required + preferred + scope add			2,290			2,680			1,880
COMMUNITY SUPPORT									
Parent/Volunteer Room	1	200	200	1	1 200	200	· ·	1 200	200
Parent/Family/Community Resource Room	1	800	800	1	1 800	800		1 800	800
Parent/Family/Community Resource Room - Scope Add	0	0	0	1	1 120	120		0 120) 0
Parent/Family Resource Offices ²²	1	120	120	1	1 120	120		1 120) 120
Required			1,120			1,120			1,120
Scope Add			0			120			0
Subtotal required + scope add			1,120			1,240			1,120

Notes:

¹⁹ Number of Learning Centers dependent on SPED population within school; One 800 SF Learning Center required; additional Learning Centers may be smaller, min. of 600 SF

²⁰ Three 80 SF Itinerant Office required; three offices at 120 SF preferred

²¹ Need for Intensive Skills room dependent on the needs of the student population

²² One 120 SF Parent/Family Resource Office required; two 120 SF offices preferred

MIDDLE SCHOOL PROGRAM ¹

red: spaces preferred but not required or applied to area prograr	m total		F	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed
			S.F. Total	Quantity	S.F. Room	S.F. Total	Quantity	S.F. Room	S.F. Total
TERIA/COMMONS									
Cafeteria 23	1	4,250	4,250	1	4250	4,250	1	4250	4,2
Cafeteria - Scope Add	0	0	0	1	1580	1,580	1	1 720	7
Kitchen	1	800	800	1	800	800	1	I 800	
Kitchen - Scope Add	0	0	0	0	315	0	1	1 120) 1
Dishwashing ²⁴	1	250	250	1	250	250	1	1 250	1 2
Kitchen Freezer/Cooler ²⁵	0	140	0	0	140	0	1	I 140	1
Kitchen Office Alcove ²⁶	1	60	60	1	60	60	1	I 60	
Servery 27	1	900	900	1	900	900	1	900) 9
Servery - Scope Add	0	0	0	1	315	315	1	I 315	; ;
Kitchen Staff Lockers 28	1	20	20	1	20	20	1	1 20	
Kitchen Restroom 29	1	45	45	1	45	45	1	45	;
Table/Chair Storage	1	200	200	1	200	200	1	1 200) :
Kitchen Storage	1	150	150	1	150	150	1	I 150	, .
Stage 30		1,000	1,000	0	0	0	() ()	
			200	0	0	0	() ()	
			250	1	250	250		1 250) :
			80	1	80	80	-	1 80	
Restroom	1	19	19	1	19	19	() 19	1
Required			6,675			6,675			6,
			1,549			349			;
Scope Add			0			1,895			1,
Subtotal required + preferred + scope add			8,224			8,919			8,

Notes:

²³ 4,500 SF Cafeteria preferred; three lunch periods allowed; two lunch periods preferred when scheduling allows

²⁴ Separate dishwashing area not required if kitchen over 1,000 SF

²⁵ Separate freezer/cooler area not required if installed in kitchen and kitchen is over 800 SF
 ²⁶ 60 SF Kitchen Office Alcove required; 100 SF preferred

- 27 Smaller servery allowed if more than two lunches served
- 28 20 SF for staff
 lockers required; 100 SF preferred
 29 45 SF single user, gender neutral Kitchen Restroom required; 64 SF preferred
- ³⁰ Music room to double as stage is preferred; Music Room and stage should have close proximity to cafeteria to allow space for spectators

³¹ For tables and chairs to support stage function. For installation of stage adjacent cafeteria only: preferred in/adjacent to cafeteria; alternatively install adjacent to music room if it includes a stage function.

Kellogg MS Ed Spec Reconciliation

Schematic Design 4/11/2018

PPS Middle School Grades 6 through 8

MIDDLE SCHOOL PROGRAM 1								
Preferred: spaces preferred but not required or applied to area program total			Proposed	Proposed	Proposed	Proposed	Proposed	Proposed
AREA			S.F. Total Quantity	S.F. Room	S.F. Total	Quantity	S.F. Room	S.F. Total
BUILDING SUPPORT								
Restrooms 32	6	45	270	6 45	5 270)	5 45	225
Restroom with Shower - Scope Add	0	0	0	0 100) ()	1 100	100
Toilets - Boys 33	3	200	600	3 200) 600)	3 200	600
Toilets - Boys ADD - Scope Add	0	0	0	0 50) ()	3 50	150
Toilets - Boys - Scope Add	0	0	0	0 300) ()	1 300	300
Toilets - Girls 33	3	200	600	3 200) 600)	3 200	600
Toilets - Girls ADD - Scope Add	0	0	0	0 50) ()	3 50	150
Toilets - Girls - Scope Add	0	0	0	0 300) ()	1 300	300
Custodial Rooms 34	4	100	400	4 100) 400)	4 100	400
Custodial Office/Lockers 35	1	150	150	1 150) 150)	1 150	150
Materials Storage 36	1	350	350	1 350) 350)	1 350	350
Custodial Storage (Just-in-Time)37	1	350	350	1 350) 350)	1 350	
Building Storage/Receiving38	1	650	650	1 650) 650)	1 650	
MDF Room ³⁹	1	160	160	1 160			1 160	
IDF Rooms 40	3	80	240	3 80			3 80	
Electrical Room 41	1	180	180	1 180)	1 180	
Electrical Room ADD - Scope Add	0	0		0 200			1 200	
Central Mechanical Room ⁴²	1	600		1 600			1 600	
Corridors ⁴⁴	Variable	000	000					
Electrical Generator Room ⁴³	1	200	200	1 200) 200)	1 200	200
Custodial Work Area			180	1 180			0 180	
Outdoor Equipment Storage				1 200			0 200	
MDF Rooms				1 20			0 20	
IDF Rooms				3 20			3 20	
Electrical Room				1 20			1 20	
Central Mechanical Room				1 200			1 200	
Concessions				0 0			0 0	
Required			4,550		4,550			4,505
Preferred			980		880			480
Scope Add			0		950			1,200
Subtotal Required + Preferred			5,530		5,430)		6,185
 Notes: ⁵² Six 45 SF gender neutral restrooms required; six 64 SF restrooms preferred. and near gym facilities. Also ensure at least one gender inclusive and one acc accessed outside regular school hours. ³³ Three 200 SF toilet rooms for boys and girls for grades 6-8 required or as req ³⁴ Four 100 SF Custodial Rooms required; Five 100 SF rooms preferred 	cessible restroom a	re included within each a						
35 150 SF Custodial Office/Lockers required; 180 SF preferred								
38 350 SF Materials Storage required; 400 SF preferred								
37 350 SF Custodial Storage required; 400 SF preferred								
38 650 SF Building Storage/Receiving required; 800 SF preferred								
39 160 SF MDF Room required; 180 SF preferred								
40 Three 80 SF IDF Rooms required; three 100 SF rooms preferred								
41 One 180 SF Electrical Room required; 200 SF preferred								
42 One 600 SF Central Mechanical Room required; 800 SF preferred								
43. Can be located outside building if site conditions allow: inside building profer	rod							

- Cone Goo S Electrical Nechanical Room required; 800 SF preferred
 Can be located outside building if site conditions allow; inside building preferred
 See Corridor Characteristics

			Pro	posed	Proposed	Proposed	Proposed	Proposed	Proposed
			S.F. Total Qu	antity	S.F. Room	S.F. Total	Quantity	S.F. Room	S.F. Total
MUNITY & PARTNER USES									
Partner Program Office	1	150	150	1	150	150	2	2 150) 30
Partner Program Office - Scope Add	1	150	150	1	150	150	() 150)
Pantry 45	1	200	200	1	200	200	1	1 200) 20
Clothes Closet	1	120	120	0) 0	0	() ()
Partner Program Storage / Office - Scope Add	0	0	0	4	88	350	() 88	3
Laundry Room - Scope Add	0	0	0	1	100	100) 100)
After school instruction ⁴⁶	2	500	1,000	0	0 0	C	() ()
Required			620			350			50
			1,000			C			
Scope Add			0			600			
Subtotal required + preferred + scope add			1.000			950			50



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Kellogg MS Ed Spec Reconciliation

Schematic Design 4/11/2018

PPS Middle School Grades 6 through 8

Preferred: spaces preferred but not required or applied to area program total			Proposed	Proposed	Proposed	Proposed	Proposed	Proposed
AREA	Quantity	S.F. Room	S.F. Total Quantity	S.F. Room	S.F. Total	Quantity	S.F. Room	S.F. Total
			65,099		05 003	,		co.cc
MIDDLE SCHOOL PROGRAM TOTAL REQUIRED AREA MIDDLE SCHOOL PROGRAM TOTAL PREFERRED AREA			15,679		65,267 12,859			60,66 5,66
MIDDLE SCHOOL PROGRAM TOTAL SCOPE ADD			0		3,713	3		3,40
SUB-TOTAL MIDDLE SCHOOL AREA (minus Covered Play)			76,778		77,839	9		65,72
SD Modeling / Floor Plan Layout Deviation ~0.6% ⁴⁸			-					41
Net to gross ratio of 29% 47			22,266		22,573	3		
Net to gross ratio of 48.9% 49			0		C)		32,348
GROSS MIDDLE SCHOOL PROGRAM TOTAL			99,044		100,412			98,48

Notes:

Notes:
 200 SF Pantry required; 300 SF preferred
 200 SF Pantry required; 300 SF preferred
 Number of after school instructional spaces to be determined in conjunction with program provider and PPS Facilities and Asset Management
 Gross area includes walls, corridors and circulation areas; 29% net to gross for new construction; ratio for modernization projects will vary depending on extent of work

⁴⁸ Square footages currently in the REVIT model contain overages in multiple rooms to provide spatial alignment ⁴⁹ Gross area includes walls, corridors and circulation areas; 48.9% net to gross for new construction

END OF VOLUME 1