Worthington City School District

Project Update Middle School Projects

October 28, 2019







Worthington Middle School Projects	original master plan 2016			add capacity	and renov	updated budget takeoff		Value Engr	
	Dec-18			Mar-19		Sep-19		Oct-19	
	Master Plan		Original	Master Plan	SD	Master Plan		Value	REVISED Estimate
	Proj Budget	Capacity	Renovation	Proj Budget	Capacity	Proj Budget	Capacity	Engineering	Oct2019
Worthingway Middle School	\$20,000,000	750	level3	\$20,497,750	750	\$22,876,189	750	-\$254,340	\$22,621,849
Perry / Phoenix Middle School	\$20,000,000	750	level3	\$22,849,190	865	\$26,658,588	865	-\$874,992	\$25,783,596
Kilbourne Middle School	\$2,500,000	600	0	\$2,742,740	600	\$4,331,137	600	-\$388,355	\$3,942,782
McCord Middle School	\$2,500,000	600	0	\$6,327,620	675	\$8,953,000	675	-\$676,842	\$8,276,158
	\$45,000,000	2700		\$52,417,300	2890	\$62,818,914	2890	-\$2,194,530	\$60,624,384
PHASE DELTA				-\$7,417,300	190	-\$10,401,614	0		\$2,194,530
PROJECT DELTA				-\$7,417,300		-\$17,818,914			-\$15,624,384

COST OVERAGE CATEGORIES (estimated)		
Capacity (enrollment)	up to	7.4MM
Construction inflation	up to	6.0MM
Design Options (renovation scope)	up to	2.2MM

Worthington Middle School Projects	original master plan 2016				
	Dec-18				
	Master Plan		Original		
	Proj Budget	Capacity	Renovation		
Worthingway Middle School	\$20,000,000	750	level3		
Perry / Phoenix Middle School	\$20,000,000	750	level3		
Kilbourne Middle School	\$2,500,000	600	0		
McCord Middle School	\$2,500,000	600	0		
	\$45,000,000	2700			
PHASE DELTA					
PROJECT DELTA					

OFCC Ohio School Design Manual

Types & sizes of spaces (program equity)

Building materials & systems (building performance equity)



Volume 1: Educational Facility Planning Guide



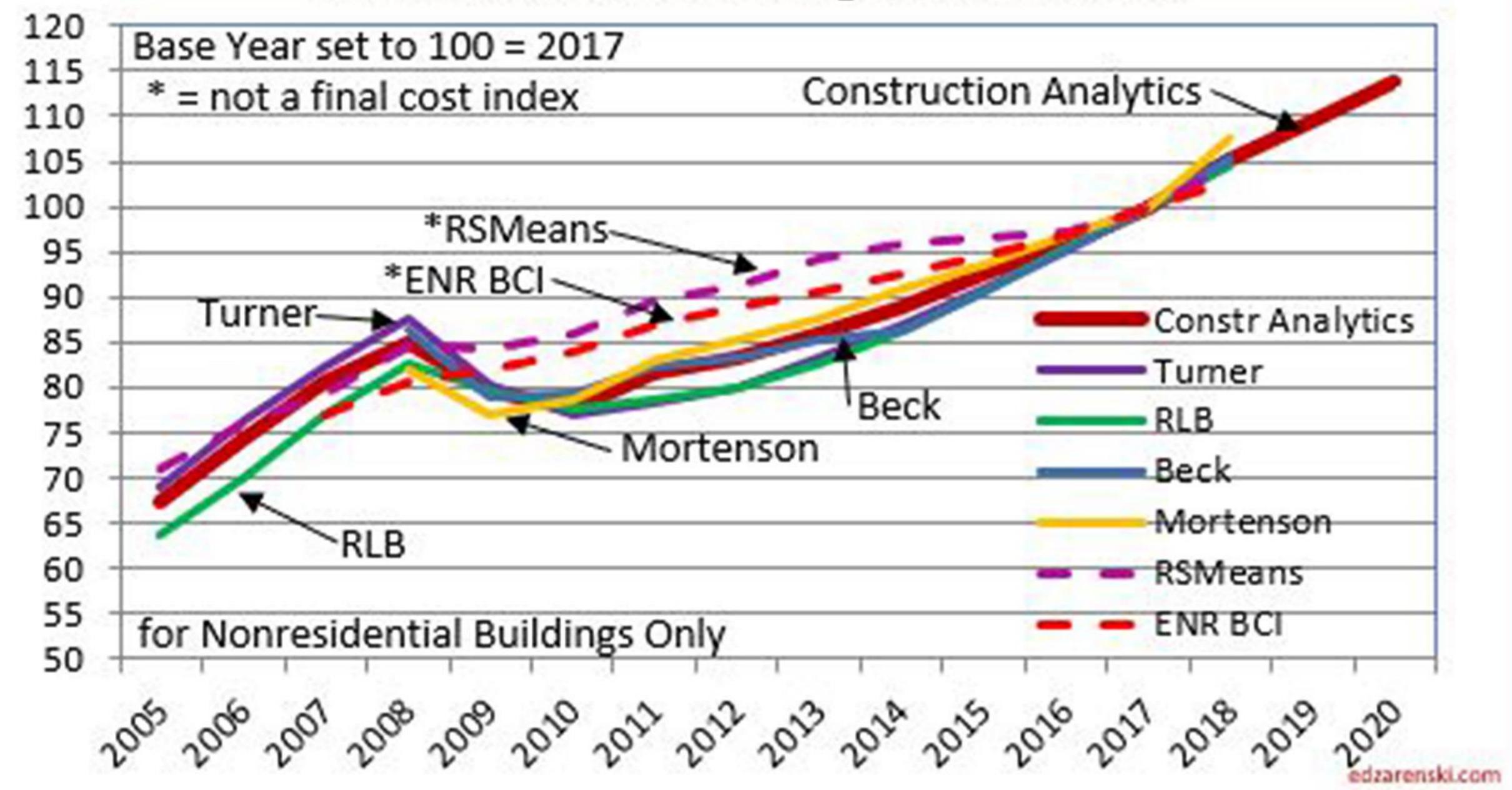
Design Goals: (aspirational)

- Like new 750 student neighborhood middle school
- 21st century teaching & learning
- Achieve high level of sustainability
- Retain exist. asset value to greatest degree possible
- Improve site traffic safety
- Improve building life safety
- Accommodate continuing operation (swing site)

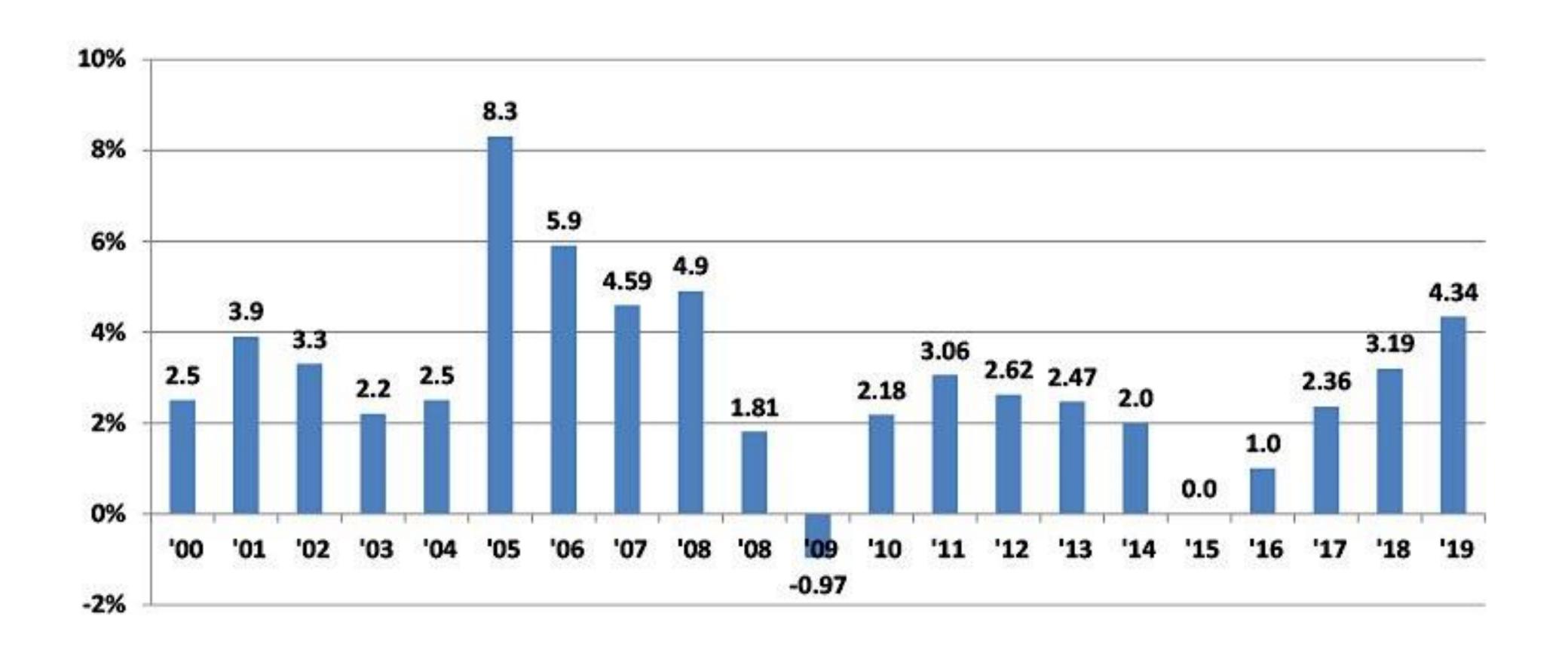
Worthington Middle School Projects	original mast	er plan 201 <i>6</i>	add capacity and renov		
	Dec-18			Mar-19	
	Master Plan		Original	Master Plan	SD
	Proj Budget	Capacity	Renovation	Proj Budget	Capacity
Worthingway Middle School	\$20,000,000	750	level3	\$20,497,750	750
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McCord Middle School	\$2,500,000	600	0	\$6,327,620	675
	\$45,000,000	2700		\$52,417,300	2890
PHASE DELTA				-\$7,417,300	190
PROJECT DELTA				-\$7,417,300	

Accommodate additional capacity and complete renovation s

Construction Building Cost Indices



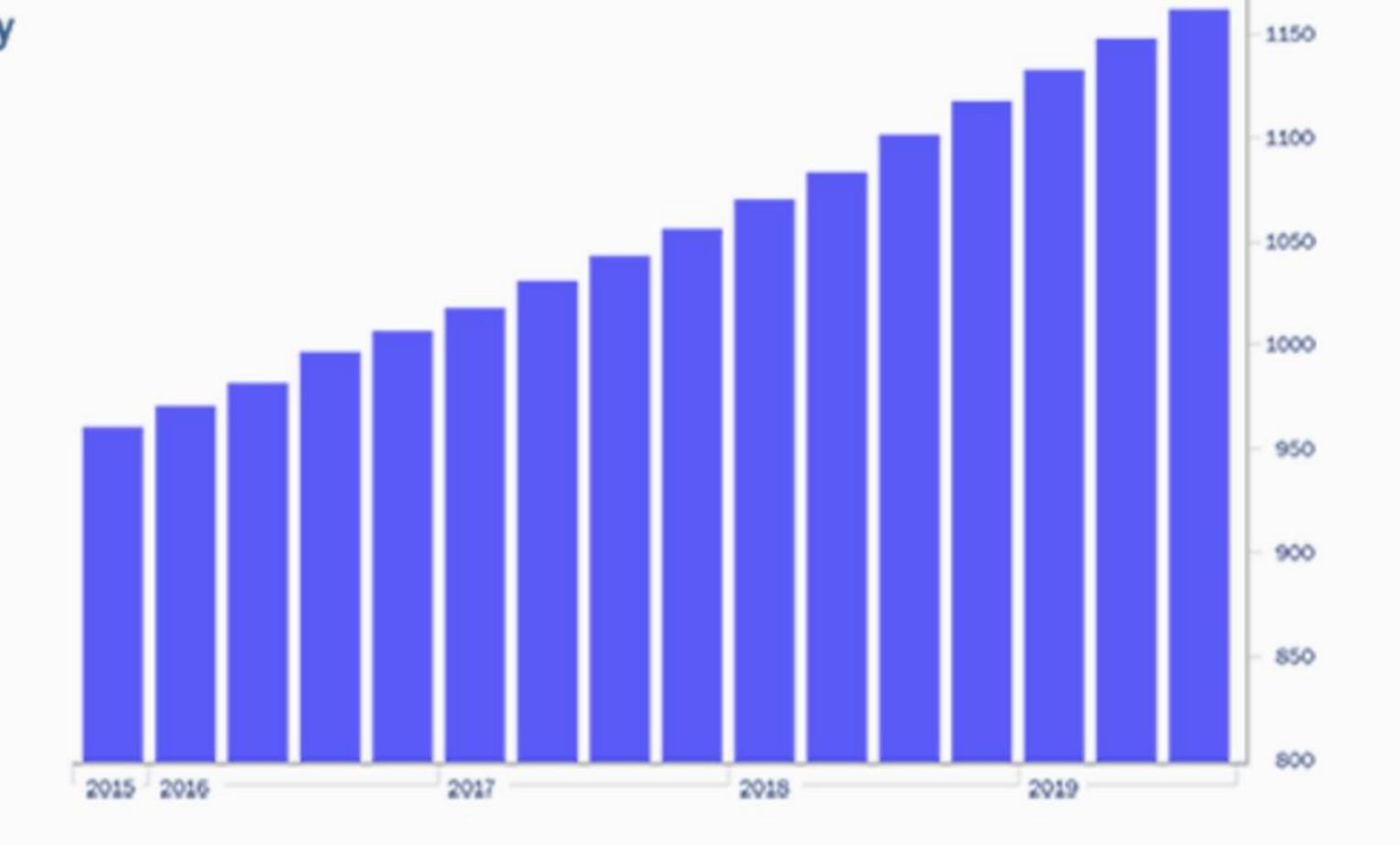
Historical Annual Inflation Rate





"Large project starts in a fairly busy construction market are continuing to impact availability of skilled labor."

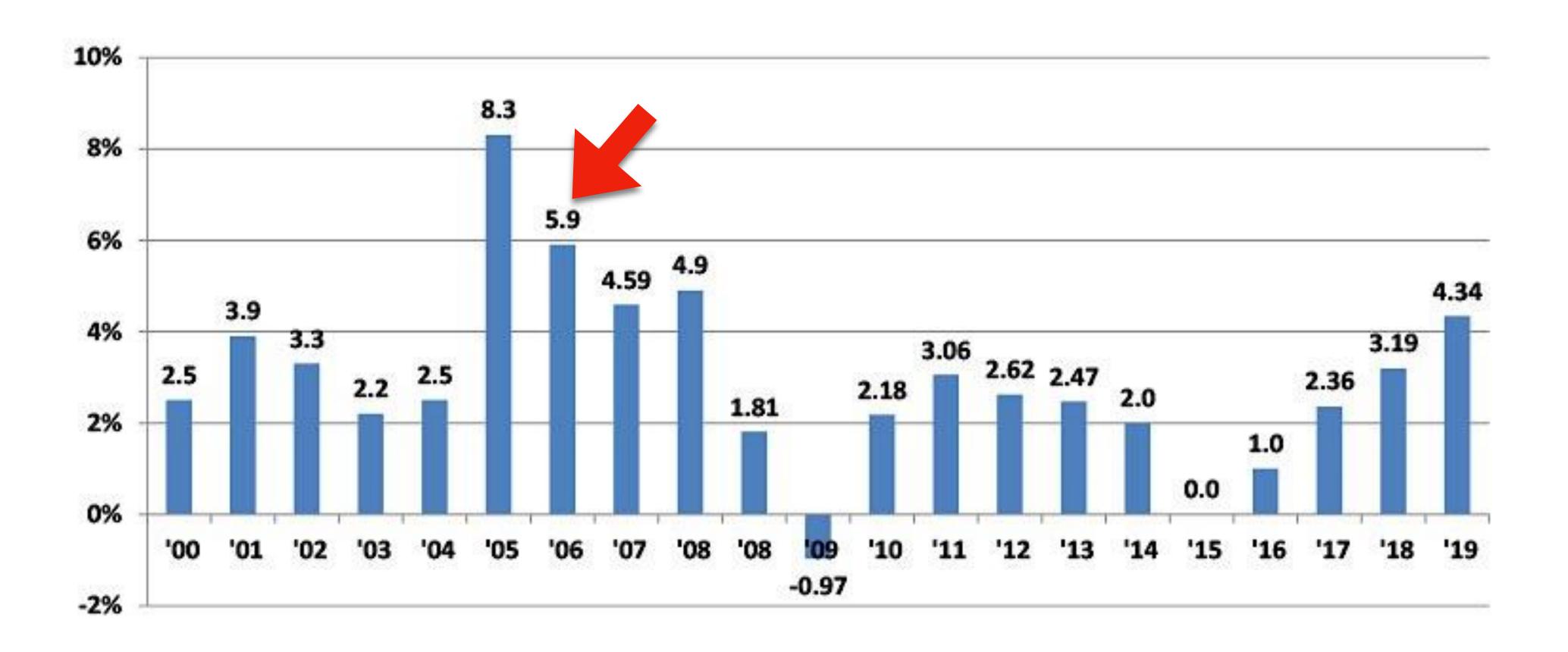
Attilio Rivetti Vice President



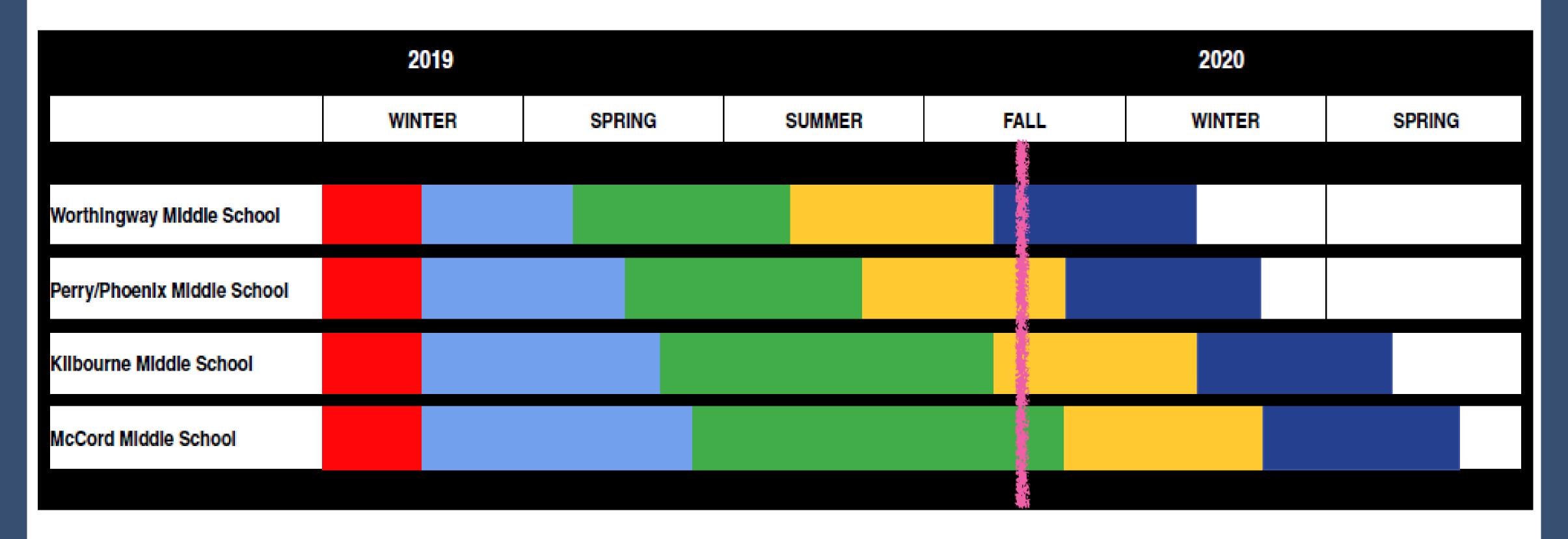
Quarter	Index	% Change		
3rd Quarter 2019	1162	1.13		
2nd Quarter 2019	1149	1.23		
1st Quarter 2019	1135	1.34		
4th Quarter 2018	1120	1.36		



Historical Annual Inflation Rate















Worthington Middle School Projects	add capacity and renov		updated budget takeoff		Value Engr	
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Technical delivery phase (WMS & PPMS) / material & labor

COST OVERAGE CATEGORIES (estimated)

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Construction inflation up to 6.0MM

Design Options (renovation scope) up to 2.2MM

Design Goals: (aspirational)

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LEED v4 for BD+C: Schools Project Checklist

Y ? N

Credit Integrative Process

1

4	0	25	Location and Transportation	15
0	0	15	Credit LEED for Neighborhood Development Location	15
0	0	1	Credit Sensitive Land Protection	1
0	0	2	Credit High Priority Site	2
2	0	3	Credit Surrounding Density and Diverse Uses (review calculations)	5
1	0	3	Credit Access to Quality Transit (review with COTA)	4
0	0	1	Credit Bicycle Facilities	1
1	0	0	Credit Reduced Parking Footprint	1
0	0	0	Credit Green Vehicles	1

4	1	7	Susta	ainable Sites	12
Υ			Prereq	Construction Activity Pollution Prevention	Required
Υ			Prereq	Environmental Site Assessment	Required
1	0	0	Credit	Site Assessment (Sands Decker to develop documents)	1
0	0	2	Credit	Site Development - Protect or Restore Habitat	2
0	1	0	Credit	Open Space (Sands Decker to review)	1
2	0	1	Credit	Rainwater Management (Sands Decker to develop)	3
0	0	2	Credit	Heat Island Reduction	2
0	0	1	Credit	Light Pollution Reduction	1
0	0	1	Credit	Site Master Plan	1
1	0	0	Credit	Joint Use of Facilities	1

6	4	2	Water	r Efficiency	12
Υ			Prereq	Outdoor Water Use Reduction	Required
Υ			Prereq	Indoor Water Use Reduction	Required
Υ			Prereq	Building-Level Water Metering	Required
2	0	0	Credit	Outdoor Water Use Reduction	2
3	4	0	Credit	Indoor Water Use Reduction	7
0	0	2	Credit	Cooling Tower Water Use	2
1	0	0	Credit	Water Metering	1

22	0	9	Ener	gy and Atmosphere	31
Υ			Prereq	Fundamental Commissioning and Verification	Required
Υ			Prereq	Minimum Energy Performance	Required
Υ			Prereq	Building-Level Energy Metering	Required
Υ			Prereq	Fundamental Refrigerant Management	Required
6	0	0	Credit	Enhanced Commissioning (Heapy requested meeting at 95% CDs)	6
13	0	3	Credit	Optimize Energy Performance	16
1	0	0	Credit	Advanced Energy Metering	1
2	0	0	Credit	Demand Response	2
0	0	3	Credit	Renewable Energy Production	3
0	0	1	Credit	Enhanced Refrigerant Management	1
0	0	2	Credit	Green Power and Carbon Offsets	2

Project Name: Worthingway Middle School Additions and Renovations

Date: 10/15/2019

6	4	4 3 Materials and Resources						
Υ			Prereq	Storage and Collection of Recyclables	Required			
Υ			Prereq	Construction and Demolition Waste Management Planning	Required			
2	0	3	Credit	Building Life-Cycle Impact Reduction	5			
1	1	0	Credit	Building Product Disclosure and Optimization - Environmental Product Declarations	2			
1	1	0	Credit	Building Product Disclosure and Optimization - Sourcing of Raw Materials	2			
1	1	0	Credit	Building Product Disclosure and Optimization - Material Ingredients	2			
1	1	0	Credit	Construction and Demolition Waste Management	2			

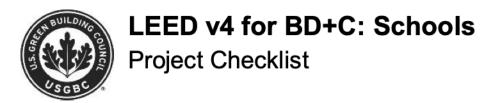
10	4	2	Indoor	Environmental Quality	16
Υ			Prereq	Minimum Indoor Air Quality Performance	Required
Υ			Prereq	Environmental Tobacco Smoke Control	Required
Υ			Prereq	Minimum Acoustic Performance	Required
1	1	0	Credit	Enhanced Indoor Air Quality Strategies	2
3	0	0	Credit	Low-Emitting Materials	3
1	0	0	Credit	Construction Indoor Air Quality Management Plan	1
2	0	0	Credit	Indoor Air Quality Assessment	2
1	0	0	Credit	Thermal Comfort	1
2	0	0	Credit	Interior Lighting	2
0	3	0	Credit	Daylight	3
0	0	1	Credit	Quality Views	1
0	0	1	Credit	Acoustic Performance	1

1	0	5	Innovation	6
0	0	5	Credit Innovation	5
1	0	0	Credit LEED Accredited Professional	1

4	0	0	Regional Priority	4
1	0	0	Credit Regional Priority: Specific Credit (Advanced Energy Metering)	1
1	0	0	Oredit Regional Priority: Specific Credit (Demand Response)	
1	0	, , , , , , , , , , , , , , , , , , , ,		1
1	0	0	Credit Regional Priority: Specific Credit (Rainwater Management)	1
			•	

57 13 53 TOTALS Possible Points: 110

Certified: 40 to 49 points, Silver: 50 to 59 points, Gold: 60 to 79 points, Platinum: 80 to 110



Y ? N

dit Integrative Process

0	0 15 Credit LEED for Neighborhood Development Location 0 1 Credit Sensitive Land Protection 0 2 Credit High Priority Site 0 5 Credit Surrounding Density and Diverse Uses		15	
0	0	15	Credit LEED for Neighborhood Development Location	15
0	0	1	Credit Sensitive Land Protection	1
0	0	2	Credit High Priority Site	2
0	0	5	Credit Surrounding Density and Diverse Uses	5
0	0	4	Credit Access to Quality Transit	4
0	1	0	Credit Bicycle Facilities	1
0	0	1	Credit Reduced Parking Footprint	1
0	1	0	Credit Green Vehicles	1

3	1	8	Susta	Sustainable Sites		
Υ			Prereq	Construction Activity Pollution Prevention	Required	
Υ			Prereq	Environmental Site Assessment	Required	
1	0	0	Credit	Site Assessment	1	
0	0	2	Credit	Site Development - Protect or Restore Habitat	2	
0	0	1	Credit	Open Space	1	
0	0	3	Credit	Rainwater Management	3	
0	1	1	Credit	Heat Island Reduction	2	
1	0	0	Credit	Light Pollution Reduction	1	
0	0	1	Credit	Site Master Plan	1	
1	0	0	Credit	Joint Use of Facilities	1	

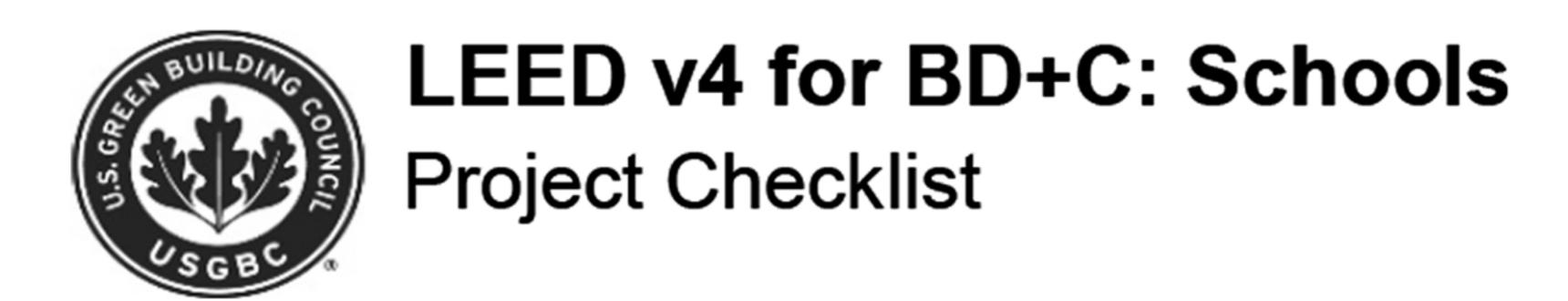
6	0	6	Water	Efficiency	12
Υ			Prereq	Outdoor Water Use Reduction	Required
Υ			Prereq	Indoor Water Use Reduction	Required
Υ			Prereq	Building-Level Water Metering	Required
2	0	0	Credit	Outdoor Water Use Reduction	2
3	0	4	Credit	Indoor Water Use Reduction	7
0	0	2	Credit	Cooling Tower Water Use	2
1	0	0	Credit	Water Metering	1
			-		

22	2 2 7 Energy and Atmosphere		gy and Atmosphere	31	
Υ			Prereq	Fundamental Commissioning and Verification	Required
Υ			Prereq	Minimum Energy Performance	Required
Υ	/ P		Prereq	Building-Level Energy Metering	Required
Υ	r F		Prereq	Fundamental Refrigerant Management	Required
6	0	0	Credit	Enhanced Commissioning	6
13	0	3	Credit	Optimize Energy Performance	16
1	0	0	Credit	Advanced Energy Metering	1
2	0	0	Credit	Demand Response	2
0	0	3	Credit	Renewable Energy Production	3
0	0	1	Credit	Enhanced Refrigerant Management	1
0	2	0	Credit	Green Power and Carbon Offsets	2

Project Name: Perry/Phoenix Middle School Additions and Renovations

Date: 10/18/2019

6	5	3	Materia	als and Resources	13
Υ			Prereq	Storage and Collection of Recyclables	Required
Υ			Prereq	Construction and Demolition Waste Management Planning	Required
2	1	3	Credit	Building Life-Cycle Impact Reduction	5
1	1	0	Credit	Building Product Disclosure and Optimization - Environmental Product Declarations	2
1	1	0	Credit	Building Product Disclosure and Optimization - Sourcing of Raw Materials	2
1	1	0	Credit	Building Product Disclosure and Optimization - Material Ingredients	2
1	1 0 Credit Construction and Demolition Waste Management		2		
10	1	5	Indoor	Environmental Quality	16
Υ		Prereq Minimum Indoor Air Quality Performance		Required	
Υ			Prereq	Environmental Tobacco Smoke Control	Required
Υ		Prereq Minimum Acoustic Performance		Required	
1	1			2	
3	0	O Credit Low-Emitting Materials		3	
1	0	0	Credit	Construction Indoor Air Quality Management Plan	
2	0	0	Credit Indoor Air Quality Assessment		2
1	0	0	Credit	Thermal Comfort	1
2	0	0	Credit	Interior Lighting	2
0	0	3	Credit	Daylight	3
0	0	1	Credit	Quality Views	1
0	0	1	Credit	Acoustic Performance	1
1	0	5	Innova	ition	6
0	0	5	Credit	Innovation	5
1	0	0	Credit	LEED Accredited Professional	1
3	0	1	Region	nal Priority	4
1	0	0	Credit	Regional Priority: Specific Credit (Advanced Energy Metering)	1
1	0 0 Credit Regional Priority: Specific Credit (Demand Response)		1		
1	0 0 Credit Regional Priority: Specific Credit (Building Life-Cycle Impact Reduction)		1		
0	0	1	Credit	Regional Priority: Specific Credit	1
			TOTAL	_S Possible Point	s: 110



Y ? N Credit

Integrative Process

57 13 53 TOTALS

Possible Points: 110

Certified: 40 to 49 points, Silver: 50 to 59 points, Gold: 60 to 79 points, Platinum: 80 to 110

Project Name: Worthingway Middle School Additions and Renovations

Date: 10/15/2019

51 11 63 TOTALS

Possible Points:

110

Certified: 40 to 49 points, Silver: 50 to 59 points, Gold: 60 to 79 points, Platinum: 80 to 110

Project Name: Perry/Phoenix Middle School Additions and Renovations

Date: 10/18/2019

9/9/19	POR/SD	POR/SD	POR/SD	POR/SD
9/23/19	GMP #1			
7720717	site			
10/28/19	GMP #2	GMP #3		
10/20/17	concrete	site		
11/13/19	DD/GMP #4			
1 17 107 17	masonry/steel			
44/05/40		DD/GMP #5		
11/25/19		conc/masonry/stee		
1/13/20	GMP #6			
1/13/20	final package			
1/27/20	CD	CD/GMP #7		
.,_,,_		final package		
2/10/20			DD	DD
2/24/20			GMP #8	
2124120			complete pkg	
3/9/20			CD	
4/13/19				GMP #9
., ,				complete pkg
5/11/20				CD

PPMS

DATE

WMS

Documentation Dates

MMS

KMS







Worthington City School District

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