# Madison New Elementary School Project

Board of Education Update on Budget, Education Specifications, and Value Engineering

12/13/2022 Meeting

Informational Update and Feedback No Formal Vote or Approvals Needed at This Meeting



## Town of Madison

## New PreK-5 Elementary School

Budget         PACS         Gilbane         Diffunce         PACS         Gilbane         Diffunce         Etim           L Offen Gas         11/15/2022	Schematic Design	(\$000's)								
NE Control Budget N. Other Ges A.	12/01/2022		<b>A</b> 1	<b>B</b> 1	<b>C</b> 1		Α	В	С	D
Budget         PACS         Gibbane         Difference         Differenc         Difference <thdiffe< td=""><td></td><td></td><td colspan="3">Estimate for Review</td><td></td><td colspan="3"></td><td></td></thdiffe<>			Estimate for Review							
N. Other Gas         Under Planning         0 <td></td> <td></td> <td>PACS</td> <td>Gilbane</td> <td></td> <td></td> <td>PACS</td> <td>Gilbane</td> <td></td> <td>Reconciled Estimate</td>			PACS	Gilbane			PACS	Gilbane		Reconciled Estimate
L Other Photogrand Ullikes Prenutures)  L Observe Building Demolition A as Beactive Building Demolition A Basis A State A Basis A Basi		5/24/2022	11/15/2022	11/15/2022			11/28/2022	11/22/2022		Date
C. Building Demoition       Image: Sec: Sec: Sec: Sec: Sec: Sec: Sec: Se										0.0
a. Selective Building Demolition       s       s       -       s       -       0.0       s       -       0.00       s       -       0.00       s       -       0.00       s       -       0.00       0.			125.0	0.0	125.0		125.0	0.0	125.0	62.5
D. Hazardous Materials         Image: Construction - Soils         Solution - Solution	a. Selective Building Demolition		\$-	•						
a. Selective State Remediation - Scalis       image: scaling Remediation - Scaling Remediatin - Scaling Remediation - Scaling Remediation - Scaling			\$ -	\$-	0.0		\$-	\$-	0.0	\$-
b. Facility Remediation       s       -       S       -       0       0.0		_	s -	s -	0.0		s -	s -	0.0	\$ -
- Lead Abatement       0.0 <td></td> <td></td> <td>\$ -</td> <td>\$-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>			\$ -	\$-						
- CGA Abatement       0.0										0.0
- Mod Abatement         0.0										0.0
E. Sustainable Elements         Sour Parents         Sour Parent         Sour Parents         Sou										0.0 0.0
b. Geochermal Weils       5000       \$ 1,437,69       \$ 1,785,68       -348,41       \$ 1,635,89       \$ 1,785,68       -322,1       \$ 1,67         Total Related Construction       \$ 9,523.8       \$ 10,306,4       \$ 8,479,4       1,426,00       \$ 9,160,8       \$ 9,160,8       \$ 9,751,4       420,4       \$ 1,63,89       \$ 1,785,68       -3,221,1       \$ 1,602,0       \$ 9,160,8       \$ 1,662,6       \$ 1,663,6       \$ 1,662,6       \$ 1,66			0.0	0.0	0.0		0.0	0.0	0.0	0.0
Total Related Construction         \$ 9,523.8         \$ 10,305.4         \$ 8,479.4         1,826.0         \$ 9,190.8         \$ 0,751.4         429.4         \$ 0,5           Total Construction before Markups         \$ 40,844.1         \$ 48,735.5         \$ 42,274.0         6,461.6         \$ 42,169.6         \$ 41,530.8         6338.8         \$ 41,5           F. Design and Pricing Contingency         included         included         3,741.9         3,150.7         591.3         3,280.7         3,081.8         187.9         3,3         41,6         335.4         (1,3)         2,25%         3,220.7         3,081.8         187.9         3,1         3,54.4         (1,3)         2,25%         3,220.7         3,081.8         187.9         3,1         1,55.8         1,225%         1,225%         1,225.9         (16,00.4         1,55.8 </td <td>· · · · · · · · · · · · · · · · · · ·</td> <td></td> <td>\$ -</td> <td>\$-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	· · · · · · · · · · · · · · · · · · ·		\$ -	\$-						
Total Construction before Markups         \$ 40,844.1         \$ 48,735.5         \$ 42,274.0         6,6461.6         \$ 42,169.6         \$ 41,530.8         698.8         \$ 41,5           F. Design and Pricing Contingency         included         331.9         342.7         39.2         3.269.7         3.061.8         187.9         3.3         1.3         33.4         1.335.4         (1.3)         3         3         1.3         3         1.3         3         1.4         1.729%         3.269.7         3.061.8         1.729%         3.269.7         3.061.8         1.729%         3.269.7         3.061.8         1.729%         3.249.7         1.50.0								, ,		, ,
F. Design and Pricing Contingency       included       3,741.9       3,150.7       591.3       7,25%       3,269.7       3,081.8       1787.9       3,1         G. Performance Bond       included       381.9       3,42.7       392.2       0,60%       334.1       3354.4       (1,3)       5         I. Permits (fby GC or CM)       included       0,0       0,0       0,0       0,00%       0,0 <td>Total Related Construction</td> <td>\$ 9,523.8</td> <td>\$ 10,305.4</td> <td>\$ 8,479.4</td> <td>1,826.0</td> <td></td> <td>\$ 9,180.8</td> <td>\$ 8,751.4</td> <td>429.4</td> <td>\$ 8,966.0</td>	Total Related Construction	\$ 9,523.8	\$ 10,305.4	\$ 8,479.4	1,826.0		\$ 9,180.8	\$ 8,751.4	429.4	\$ 8,966.0
G. Pertomance Bond       included       381.9       342.7       39.2       0.60%       1334.1       135.4       (1.3)       15         H. Insurance       included       1,740.5       1,662.0       78.6       2.91%       1,520.8       1,626.9       (106.1)       1,5         J. CM Contingency (CM Only)       included       1,247.3       1,125.2       122.1       2,50%       1,00.6       (10.8)       0.0 <t< td=""><td>Total Construction before Markups</td><td>\$ 40,844.1</td><td>\$ 48,735.5</td><td>\$ 42,274.0</td><td>6,461.6</td><td></td><td>\$ 42,169.6</td><td>\$ 41,530.8</td><td>638.8</td><td>\$ 41,850.3</td></t<>	Total Construction before Markups	\$ 40,844.1	\$ 48,735.5	\$ 42,274.0	6,461.6		\$ 42,169.6	\$ 41,530.8	638.8	\$ 41,850.3
H. Insurance       Included       1,740.5       1,662.0       7.8.6       2.91%       1,520.8       1,626.9       (106.1)       1,52         I. Permits (if by GC or CM)       included       0.0       0.0       0.00%       0.0       0.00%       0.0       0.00%       0.0       0.00%       0.0       0.00%       0.0       0.00%       0.0       0.0       0.0       0.0       0.00%       0.0										3,175.7
1. Permits (if by GC or CM)       included       0.0										334.8
J. CM Contingency (CM Only)       included       1.247.3       1.125.2       122.1       2.50%       1.089.9       1.100.6       (10.8)       1.0         K. General Conditions       included       1.891.2       1.891.2       0.0       1.891.2       0.0       1.891.2       0.0       1.891.2       0.0       1.891.2       0.0       1.891.2       0.0       1.891.2       0.0       1.891.2       0.0       1.891.2       0.0       1.891.2       0.0       1.891.2       0.0       1.891.2       0.0       1.891.2       0.0       1.891.2       0.0       1.891.2       0.0       1.891.2       0.0       1.891.2       0.0       1.25.8       1.213.8       272.0       1.4       1.55.8       1.245.9       72.0       1.45.5       1.12.4       3.5       1.25.8       1.213.8       272.0       1.6       1.245.8       1.213.8       272.0       1.6       1.23.8       272.0       1.6       1.245.8       1.213.8       272.0       1.6       1.245.8       1.213.8       272.0       1.23.8       272.0       1.23.8       272.0       1.23.8       272.0       1.23.8       272.0       1.23.8       272.0       1.23.8       272.0       1.23.8       272.0       1.23.8       272.0       1.23.8										1,573.9 0.0
K. General Conditions       included       1.891.2       1.891.2       0.0       1.891.2       0.0       1.891.2       0.0       1.891.2       0.0       1.891.2       0.0       1.891.2       0.0       1.891.2       0.0       1.891.2       0.0       1.891.2       0.0       1.891.2       0.0       1.891.2       0.0       1.891.2       0.0       1.891.2       0.0       1.891.2       0.0       1.425.8       1.213.8       212.0       1.4         N. Overhead and Profit / Fee (CM Fee)       included       included       1.56.5       11.4       5.1       0.03%       14.55       11.2       3.3       5       1.4       5.1       1.4       5.1       1.4       5.1       1.4       5.1       1.4       5.1       1.4       5.1       1.4       5.1       1.4       5.1       1.4       5.1       1.4       5.2       5.2       5.0       5.2       5.0       5.2										0.0 1,095.3
M. Overhead and Profit / Fee (CM Fee)       included       1,088.5       970.9       117.6       1.70%       952.4       970.9       (18.5)       1         N. State Education Fund       Included       1,088.5       970.9       117.6       0.03%       14.5       11.2       3.3         Total Markups       Included       \$ 11,264.7       \$ 10,688.5       970.9       177.6       0.03%       14.5       11.2       3.3         Construction w/Markups before Escalation       \$ 40,844.1       \$ 60,000.2       \$ 52,854.0       7,146.2       \$ 52,668.0       \$ 51,762.8       905.3       \$ 22,6         IL Escalation       \$ 5765.8       \$ 52,854.0       7,146.2       \$ 54,007.8       \$ 4,164.8       142.9       4.2         IL Escalation       \$ 5765.8       \$ 52,854.0       7,146.2       \$ 56,975.8       \$ 55,227.6       1,048.2       \$ 66,22.8       \$ 64,929.8       \$ 57,111.9       7,817.9       18.8%       \$ 56,975.8       \$ 55,227.6       1,048.2       \$ 66,22       \$ 53,176       351.7       350.9       0.8       3       3         Building Construction - Current (\$/GSF) - incl Markups, excl E       357.9       504.4       452.3       52.1       439.2       437.4       1.9       4         Alte						,				1,891.2
N. State Education Fund       included       16.5       11.4       5.1       0.03%       14.5       11.2       3.3         Total Markups       Included       10.55       11.4       5.1       0.03%       14.5       11.2       3.3         Construction w/Mark-ups before Escalation       \$ 40,844.1       \$ 60,000.2       \$ 52,854.0       7,146.2       \$ 52,666.0       \$ 51,762.8       905.3       \$ 52,354.0         Construction w/Mark-ups before Escalation       \$ 40,844.1       \$ 60,000.2       \$ 52,854.0       7,146.2       \$ 52,666.0       \$ 51,762.8       905.3       \$ 52,354.0         Total Estimated Construction       \$ 446,609.9       \$ 44,609.9       \$ 44,609.9       \$ 57,711.9       7,817.9       18.8%       \$ 56,975.8       \$ 55,927.6       1,048.2       \$ 56,558.0       \$ 41,048.1       142.9       42.9         Variance to Budget (Over)/Under Markups % (excl GCs, GRs)       357.9       (10,502.0)       (10,305.9)       (0,317.7)       (0,50.9)       0.8       35         Building Construction - Current (\$/GSF)       357.9       361.8       47.9       351.7       350.9       0.8       35         Building Construction - Current (\$/GSF)       532.6       692.2       611.4       80.8       607.4       598.7       8.7<		included								1,425.8
Total Markups         Included         \$ 11,264.7         \$ 10,680.0         684.7         \$ 10,498.4         \$ 10,231.9         266.5         \$ 10,4           Construction w/Mark-ups before Escalation         \$ 40,844.1         \$ 60,000.2         \$ 52,854.0         7,146.2         \$ 52,668.0         \$ 51,762.8         905.3         \$ 52.3           III. Escalation         \$ 5,765.8         \$ 46,609.9         \$ 46,609.9         \$ 64,929.8         \$ 5,711.9         7,817.9         18.8%         \$ 56,975.8         \$ 55,927.6         1,049.2         \$ 56,56           Variance to Budget (Over)/Under Markups % (excl GCS, GRs)         (10,502.0)         (10,365.9)         (9,317.7)         (9,5           Building Construction - Current (\$/GSF)         357.9         409.7         361.8         47.9         351.7         350.9         0.8         3           Building Construction - Current (\$/GSF)         357.9         409.7         361.8         47.9         351.7         350.9         0.8         3           Building Construction - Current (\$/GSF)         532.6         692.2         611.4         80.8         607.4         598.7         8.7         6           Proposed Alternates No 2 - Fire Pump (incl Feeder and ATS)         \$ - \$ - 0.0         \$ - \$ 0.0         \$ 1,537.60         \$ - \$ 1,637.6										961.7
Construction w/Mark-ups before Escalation       \$ 40,844.1       \$ 60,000.2       \$ 52,854.0       7,146.2       \$ 52,668.0       \$ 51,762.8       905.3       \$ 52,35         Ill. Escalation       \$ 5,765.8       \$ 52,854.0       7,146.2       \$ 52,854.0       7,146.2       \$ 52,668.0       \$ 51,762.8       905.3       \$ 52,35         Total Estimated Construction       \$ 46,609.9       \$ 64,929.8       \$ 57,111.9       7,817.9       18.8%       \$ 56,975.8       \$ 55,927.6       1,048.2       \$ 56,527.6         Variance to Budget (Over)/Under Markups % (exd GCs, GRs)       (18,319.9)       (10,502.0)       (10,365.9)       (9,317.7)       (9,5         Building Construction - Current (\$/GSF)       357.9       409.7       361.8       47.9       351.7       350.9       0.8       3         Building Construction - Current (\$/GSF)       357.9       504.4       452.3       52.1       439.2       437.4       1.9       4         Total Construction - Current (\$/GSF)       532.6       692.2       611.4       80.8       607.4       598.7       8.7       6         Alternate No 1 - Ryerson Demolition       \$ - \$ \$ -<						0.03%				12.8 \$ 10,471.2
II. Escalation       \$ 5,765.8       \$ 4,929.6       \$ 4,257.9       671.7       5.5%       \$ 4,307.8       \$ 4,164.8       142.9       4,22         Total Estimated Construction       \$ 46,609.9       \$ 64,929.8       \$ 57,111.9       7,817.9       18.8%       \$ 56,975.8       \$ 55,927.6       1,048.2       \$ 56,56         Variance to Budget (Over)/Under Markups % (excl GCs, GRs)       (10,502.0)       (10,365.9)       (9,317.7)       (9,57)         Building Construction - Current (\$/GSF)       367.9       409.7       361.8       47.9       351.7       350.9       0.8       353.9         Building Construction - Current (\$/GSF) - incl Markups, excl E       357.9       409.7       361.8       47.9       351.7       350.9       0.8       353.9         Building Construction - Current (\$/GSF) - incl Markups, excl E       357.9       409.7       361.8       47.9       351.7       350.9       0.8       353.9         Building Construction - Current (\$/GSF)       532.6       692.2       611.4       80.8       607.4       598.7       8.7       6.7         Proposed Alternates       New Construction       \$       \$       0.0       \$       1,537.60       \$       1,537.6       1,537.6       1,537.6       1,537.6       1,537.6										
Total Estimated Construction       \$ 46,609.9       \$ 64,929.8       \$ 57,111.9       7,817.9       18.8%       \$ 56,975.8       \$ 55,927.6       1,048.2       \$ 56,957.8         Variance to Budget (Over)/Under Markups % (excl GCs, GRs)       (18,319.9)       (10,502.0)       (10,365.9)       (9,317.7)       (9,502.0)         Building Construction - Current (\$/GSF)       357.9       409.7       361.8       47.9       351.7       350.9       0.8       351.7         Building Construction - Current (\$/GSF) - incl Markups, excl E       357.9       409.7       361.8       47.9       351.7       350.9       0.8       351.7       350.9       0.8       351.7       439.2       437.4       1.9       445.2       452.3       52.1       439.2       437.4       1.9       445.2       452.3       52.1       439.2       437.4       1.9       445.2       455.9       455.9       455.9       455.9       455.9       455.9       455.9       455.9       455.9       455.9       455.9       455.9       455.9       455.9       455.9       455.9       455.9       455.9       437.4       1.9       445.9       455.9       455.9       455.9       455.9       455.9       455.9       455.9       455.9       455.9       455.9						5.50(				1 - 7
Variance to Budget (Over)/Under Markups % (excl GCs, GRs)         (18,319.9)         (10,502.0)         (10,365.9)         (9,317.7)         (9,502.0)           Building Construction - Current (\$/GSF)         357.9         409.7         361.8         47.9         351.7         350.9         0.8         353.9           Building Construction - Current (\$/GSF) - incl Markups, excl E         357.9         409.7         361.8         47.9         351.7         350.9         0.8         353.9           Building Construction - Current (\$/GSF) - incl Markups, excl E         357.9         504.4         452.3         52.1         439.2         437.4         1.9         443.2           Total Construction - Current (\$/GSF)         532.6         692.2         611.4         80.8         607.4         598.7         8.7         60.7           Proposed Alternates         New Construction         \$         -         \$         0.0         \$         1,537.60         \$         -         1,537.6										4,236.3
Markups % (excl GCs, GRs) $23.1\%$ $25.0\%$ $17.0\%$ $17.2\%$ $17.2\%$ Building Construction - Current (\$/GSF) $357.9$ $409.7$ $361.8$ $47.9$ $351.7$ $350.9$ $0.8$ $351.7$ $351.7$ $351.7$ $351.7$						18.8%				<b>\$</b> 56,557.8
Building Construction - Current (\$/GSF)       357.9 $409.7$ $361.8$ $47.9$ $351.7$ $350.9$ $0.8$ $50.9$ $0.8$										(9,947.9) 17.1%
Building Construction - Current (\$/GSF) - incl Markups, excl E:       357.9       504.4       452.3       52.1       439.2       437.4       1.9       4         Total Construction - Current (\$/GSF)       532.6       692.2       611.4       80.8       607.4       598.7       8.7       6         Proposed Alternates       New Construction       Size       692.2       611.4       80.8       607.4       598.7       8.7       6         Alternate No 1 - Ryerson Demolition       Alternate No 2 - Fire Pump (incl Feeder and ATS)       New Construction       \$       0.0       \$       1,537.60       \$       1,537.6       1,								/		
Total Construction - Current (\$/GSF)       532.6       692.2       611.4       80.8       607.4       598.7       8.7       607.4         Proposed Alternates       New Construction       \$       -       \$       -       0.0       \$       1,537.60       \$       -       1,537.60       \$       -       1,637.6       1,537.60       \$       -       1,637.6       1,537.60       \$       -       1,637.6       1,537.60       \$       -       1,637.6       1,537.60       \$       -       1,637.60			409.7	361.8	47.9		351.7	350.9		351.3
Proposed Alternates       New Construction       Alternate No 1 - Ryerson Demolition       \$ - \$ - 0.0       \$ 1,537.60       \$ - 1,537.6       1,537.60       \$ - 1,537.6       1,537.60       \$ - 1,537.6       1,537.60       \$ - 1,537.6       1,537.60       \$ - 1,537.6       1,537.60       \$ - 1,537.6       1,537.60       \$ - 1,537.6       1,537.60       \$ - 1,537.6       1,537.60       \$ - 1,537.6       1,537.60       \$ - 1,537.6       1,537.60       \$ - 1,537.6       1,537.60       \$ - 1,537.6       1,537.60       \$ - 1,537.6       1,537.60       \$ - 1,537.6       1,537.60       \$ - 1,537.6       1,537.60       \$ - 1,48.8       1         Alternate No 3 - Natural Gas       \$ - \$ \$ - \$ 0.0       \$ 225.50       \$ - 225.5       2	Building Construction - Current (\$/GSF) - incl Markups, excl	E: 357.9	504.4	452.3	52.1		439.2	437.4	1.9	438.3
Alternate No 1 - Ryerson Demolition       \$       -       \$       -       0.0       \$       1,537.60       \$       -       1,537.6       1,48.8       1       1,537.6	Total Construction - Current (\$/GSF)	532.6	692.2	611.4	80.8		607.4	598.7	8.7	603.1
Alternate No 2 - Fire Pump (incl Feeder and ATS)       \$ -       \$ -       0.0       \$ 148.80       \$ -       148.80       1         Alternate No 3 - Natural Gas       \$ -       \$ -       0.0       \$ 225.50       \$ -       225.50       2         Alternate No 4 - PV system on Roof       \$ -       \$ -       0.0       \$ 2,760.12       \$ -       2,760.1       2,760.1         Alternate No 5 -       \$ -       \$ -       \$ 0.0       \$ -       \$ -       0.0       \$ -       0.0	Proposed Alternates		New	Construction	ı –			Alternates 1	Fotal	
Alternate No 2 - Fire Pump (incl Feeder and ATS)       \$ -       \$ -       0.0       \$ 148.80       \$ -       148.80       1         Alternate No 3 - Natural Gas       \$ -       \$ -       0.0       \$ 225.50       \$ -       225.50 <td< td=""><td></td><td></td><td>\$-</td><td>\$-</td><td>0.0</td><td></td><td></td><td>\$-</td><td>1,537.6</td><td>1,537.6</td></td<>			\$-	\$-	0.0			\$-	1,537.6	1,537.6
Alternate No 4 - PV system on Roof       \$       -       \$       -       0.0       \$       2,760.12       \$       -       2,760.1 </td <td></td> <td></td> <td>\$ -</td> <td>\$-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>148.8</td>			\$ -	\$-						148.8
Alternate No 5 - \$ - \$ - 0.0 \$ - \$ - 0.0			\$ - ¢	\$- ¢						225.5 2 760 1
			⇒ - \$ _					⊅ -   \$ _		2,760.1 0.0
	Alternate No 6 -		\$ - \$ -	ş - \$ -	0.0		э - \$ -	\$- \$-	0.0	0.0
			\$		0.0		\$ 4.672.0	\$	0.0	\$ 4,672.0

## Budget vs Schematic Design Estimate - Update for BOE

-Estimates were conducted and reconciled by two professional construction cost estimators based on the current Schematic Design of the building

-The project is trending over budget by approximately \$9.9M (\$56.5M reconciled estimate vs \$46.6 budget)

-The reasons for the overwhelming majority of the overage are fairly clear:

-The budget was developed and referendum passed prior to the rapid recent increases in construction prices

-The budget was developed and referendum passed prior to the increased projected enrollment that added 4 classrooms to the project

-The project does not need to "cut" \$9.9M at this point. However, value engineering items need to be vetted and accepted to ensure that the resulting projected costs, the remaining design contingencies and similar budgeting tools, and scope/design are acceptable to the town and the budget prior to proceeding with the rest of the design phases.

<u>Budget vs Schematic Design Estimate - Update for BOE</u> -Much of the Value Engineering (VE) effort has evolved around materiality changes or other building components not dictated by the Education Specifications. It is anticipated that these items will comprise the bulk of the VE savings

-e.g., changing bluestone pavers to stamped concrete

-e.g., reducing the amount of site seat walls

-Some of the VE effort has also explored some items within the education specifications that might be altered to capture cost savings without wholesale elimination of programming

-e.g., the elimination of the 'additional' 4 classrooms resulting from the population increase is <u>not</u> currently being contemplated for value engineering

-e.g., however, to help make room for those 4 classrooms, the sizes of some of the other classrooms and similar spaces, along with corridors and other non-programmatic spaces have been preliminarily reviewed to identify potential cost reductions

-Some of the makeup of existing spaces has also been reviewed for potential cost savings

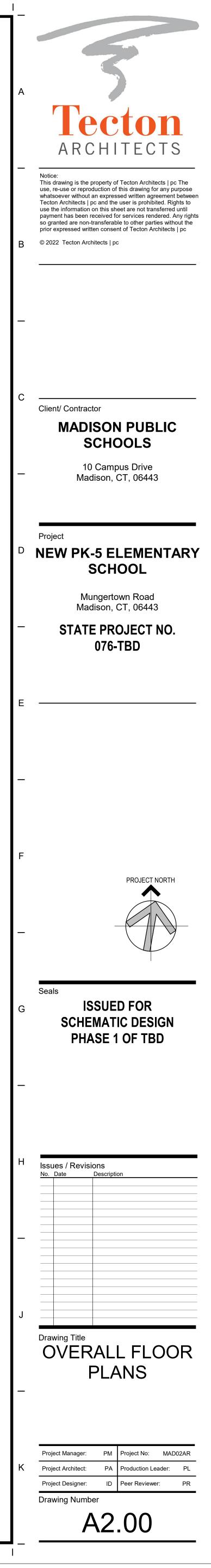
-e.g., radiant flooring in PreK / K

-e.g., the makeup of kitchen equipment in the Education Specifications that is larger than at other schools of similar population and does not physically fit well within the square footage allotted

-e.g., in-classroom restrooms within Grades 1 and 2

-In all, over \$750k - \$1M in savings could be captured by modifying some of the elements within the Education Specifications





# Excerpts from Current Ed Specs follow



Madison Public Schools Madison, Connecticut

## **ELEMENTARY EDUCATIONAL SPECIFICATIONS**

for

**New Elementary School** 

Approved by the Madison Board of Education November 9, 2021 Modified May 11, 2022 due to Enrollment Projections Update

### **BOARD OF EDUCATION**

Seth Klaskin, Chair Galen Cawley, Vice Chair Emily Rosenthal, Secretary Diane Infantine-Vyce Cathy Miller Steven Pynn Maureen Lewis Mary Ann Connelly Jennifer Gordon

#### **ADMINISTRATION**

Craig Cooke, Ph.D., Superintendent of Schools Gail Dahling-Hench, Assistant Superintendent William H. McMinn, Director of Facilities Stacy Nobitz, Finance Director Red areas classroom areas that might be reduced in square footage. This would also help align the size of these areas with other spaces in the building to permit increased flexibility for school operations

NEW ELEMENTARY ED S				-	]
Room Description	# of Students Per Room	Required # of Rooms	Square Feet Per Room	Total Area (Sq. Feet)	Potential target
CENERAL EDUCATION PROCRAMS					
Early Childhood: Full-Day Kindergarten	16-20	5	1,100	<del>&lt; 5,500</del>	900-1000sf
Early Elementary: Grade 1 and 2	16-20	10	940	9,400	890-900sf
Intermediate: Grades 3-5	19-24	14	890	< 12,460	
Visual Arts – Classroom	16-24	1	1,100	1,100	
Visual Arts - Kiln Room and Storage		1	350	350	
Music - Choral Room/General Music	16-24	1	1,000	1,000	
Physical Education - Gymnasium		1	6,000	6,000	
Physical Education - Office and Storage		1	600	600	
Platform (Stage) Instrumental Music		1	900	900	
STEAM Classroom	16-24	1	1,100	1,100	
World Language Classroom	16-24	1	890	890	
Media Center		1	2,600	2,600	
Reading/Math Coach Office		2	175	350	
Small group breakout rooms	1-5	2	125	250	
General Ed. Intervention Services (Math)	6-8	1	500	500	
General Ed. Intervention Services (Reading)	6-8	1	500	500	
TESOL Office	0.0	1	100	100	
Total		-	100	43,600	
SPECIAL EDUCATION PROGRAMS				43,000	
PreK Classroom	16-18	4	1,000	4,000	000 050-6
Pre-K ABA Classroom		1	400	400	900-950sf
PreK OT/PT		1	500	500	
PreK Speech		1	250	250	
PreK Psychologist Office		1	300	300	
FASE Classroom	4-8	1	890	890	-
Special Education Resource Room	4-8	4	700	2,800	-
OT/PT Resource Room		1	500	500	
Related Services (Social Worker/Psychologist/Speech)		1	600	600	-
Elementary SPED Coordinator/BCBA		1	150	150	
· · ·		1	150		
Total ADMINISTRATION AND SUPPORT				10,390	
FACILITIES		1	200	200	
Principal's Office		1	200	200	
Assistant Principal's Office		1	175	175	
Main Office Secretarial Area		1	700	700	-
Guidance Counselor's Office		1	200	200	-
Conference Room		2	200	400	
Health Services		1	650	650	
Teacher Workroom		1	440	440	
Food Services – Cafeteria		1	2,400	2,400	ļ
Food Services – Kitchen and Manager's Office		1	1,200	1,200	
Faculty Lounge		1	600	600	ļ
Custodial Office Area		1	150	150	

Blue areas are adjacent to classrooms and would be adjusted in size to match adjacent classroom sizes (e.g., if Music is next to PreK on same exterior wall, target 900-950sf)

May 11, 2022

EARLY CHILDHOOD: FU	LL-DAY KINDERGARTEN		
Teacher Storage	Lockable teacher storage wardrobe for 3 adults		
	• One (1) lockable four-drawer filing cabinet		
	Additional instructional storage closet in corridor to be shared by Grades K-2		
Student Storage	• Coat and personal storage area for twenty-four (24) located within the classroom		
Lighting	Soft color, dimmable lighting		
Flooring	• Vinyl enhanced tile and area rugs		
Display	Magnetic whiteboards		
	Bulletin Boards		
Student Furniture	• Two (2) tables		
	• Flexible seating/tables to accommodate up to twenty-four (24) students		
	(flexible/adaptable workstations)		
Teacher Furniture	• One (1) Teacher desk/chair (possibly built into counter area to save space)		
Other Furniture	Desk and chair for classroom para		
Classroom Technology	Large screen interactive projection system		
Computers (each)	• 1-to-1 laptops for each student with charging station		
	• One (1) teacher computer		

K

#### EARLY ELEMENTARY – GRADES ONE and TWO

SPACE:	890 square feet (each classroom)
	50 square feet (in-class toilet room)

### As part of potential reconfiguration, may be able to capture plumbing savings by consolidating Gr 1 and 2 restrooms

**<u>NUMBER</u>**: Ten (10) classrooms

Toilet	• Toilet room with sink within classroom at a level appropriate for children ages			
	6-8			
Sinks	Stainless steel sink with laminate counters			
	Soap and towel dispenser			
Classroom Storage	Built-in bookcases			
	• Storage areas for anchor charts, large bins/kits			
	Classroom library storage			
	Counters under windows where possible			
Teacher Storage	• Lockable teacher storage wardrobe for three (3) adults			
	• One (1) lockable four-drawer filing cabinet			
	• Additional instructional storage closet in corridor to be shared by Grades K-2			
Student Storage	• Coat and personal (non-locking) lockers for twenty-four (24)/classroom located			
	in the corridor (2 students/locker)			
Lighting	Soft color, dimmable lighting			
Flooring	• Vinyl enhanced tile and area rugs			
Display	Magnetic whiteboard			
	Bulletin Boards			
Student Furniture	• Two (2) tables			
	• Flexible seating/desks/tables to accommodate up to twenty-four (24) students			
Teacher Furniture	• Teacher desk/chair, possibly built into counter area to save space			
Other Furniture	Desk and chair for classroom para			
Special Needs/Equipment	Common space outside classroom desirable			
Classroom Technology	Large screen interactive projection system			
Computers (each)	• 1-to-1 Chromebook device for each student with charging station			
	• One (1) teacher computer			

Flooring	• Epoxy flooring – stable non-slip surface, must be easy to sweep and mop			
	<ul> <li>Appropriately pitched floor with multiple floor drains and water source for</li> </ul>			
	custodial purposes.			
Storage	• Safe			
8	• Four (4) stainless steel utility carts, three shelves, #300/#400 capacity			
	• Two (2) stainless steel cart for tray storage, ADA accessible			
	• Adequate space for annual supplies			
Furniture	Teacher desk/chair			
	• Visitor's chair			
Space Considerations	• Large walk-in storeroom with heavy-duty wire mesh chrome-mate shelving on			
(required)	casters			
	• Dishwasher room with necessary utilities (racks and tray carts)			
	High capacity appropriate commercial grade dishwasher			
	• Separate area for the cashier to count money with a safe			
	• Two (2) serving lines with built-in hot and cold units			
	• Can washing area (outside, near dock – custodial)			
Food Services Equipment	• One (1) slicer on stand			
	• One (1) 30-gallon mixer			
Project team has	• One (1) combi-oven (steam/convection) example Alto-shaam			
initially indicated that	• One (1) commercial microwave oven			
the equipment listed	• One (1) double-stack convection ovens with stand: single one-over-one unit			
here won't physically	(equals 2 ovens)			
fit well within the	• One (1) small double kettles			
listed square footage.	• One (1) food processor (Robo Coupe)			
The estimated cost	• Two (2) food warmers			
	• Walk-in freezer, minimum 144 square ft. with shelving			
for this equipment is	• Walk-in refrigerator, minimum 144 square ft. with shelving			
also substantially	• Two (2) pass-thru refrigerator near serving line			
higher than on other	• Steam table with five (5) wells			
similar projects	• Cold well in serving line for fruits, vegetables and salads			
	• Three (3) preparation tables (stainless steel)			
	• Milk cooler			
	• Ice cream freezer			
	• Exhaust fans (ventilation) for ovens, skillet, stove, etc.			
Tashualasu	• Exhaust fans (ventilation) in washroom and pantry areas			
Technology	• Three (3) cash registers and stands (point of sale system – including data drops)			
	• One (1) computer (Food Services Office - requires data drop)			
	• One (1) multi-function printer (Food Services Office – requires data drop)			
	• Two (2) telephones (one in Manager's Office and one in Kitchen Prep Area			
	(amplified ringers)			

FACULTY LOUNGE	
<b><u>SPACE</u></b> : 600 square feet	
Toilet	Faculty toilets adjacent to faculty lounge
Sink	Stainless steel sink with laminate counter
	Soap and towel dispenser
Access/Location	• Close proximity to the major instructional section of the school and literacy Lab
Lighting	• Provide windows and maximize natural light
Flooring	• Vinyl enhanced tile and carpeting
Storage	Built-in upper and lower cabinets

SYSTEM	SPECIFICATIONS	
	• All spaces are to receive air conditioning, but only those areas with summertime	
	use will have the systems running year-round; all other areas will have systems	
_	set to dehumidification only during summer months.	
	• Use in-slab hydronic heat delivery at the lower levels for PreK and Kindergarten	
	classrooms.	
Climate Controls/	• The building will be designed with Direct Digital Control (DDC) systems	
Ventilation System	(Alerton or Automate logic) centrally tied into the School Facilities Department	
	via Graphical User Interface.	
	• Spaces should have independent, on demand heating, cooling and ventilation	
	control for operational efficiency.	
	• Each classroom will be provided with a temperature sensor and carbon dioxide	
	sensor. The carbon dioxide sensor is an energy saving device. By sensing the	
	carbon dioxide within the room, the outside air intake is adjusted, reducing the	
	amount of outside air being heated or cooled, resulting in less energy used.	
	• Climate controls/ventilation systems need to meet current codes and standards.	
	MDF and IDFs must be climate controlled (A/C)	
Lighting System	• Efficient and appropriate natural lighting will be maximized within the facility	
	as appropriate for the programmatic use of the spaces.	
	• Motion sensors and dual switching will be installed in classrooms.	
	• The use of LEDs throughout, with exceptions in specialty areas.	
	• Attention should be given to security lighting for both interior and exterior of	
	the building.	
	• Emergency back-up will be via local battery ballasts.	
	• The use of light shelves and light sensors for natural light to reduce electrical	
	load shall be considered in locations where possible.	
Electrical (Power) System	• Power to be provided by local utility company.	
	Consider solar roof mounted.	
	• Distribution will include customer metering.	
	• Emergency (whole building) generator to accommodate Life Safety needs.	
	• Generator must be sufficient to support critical IT equipment in MDF and all	
	IDFs as well as administrative offices and Nurse's office.	
	• Generator must support critical kitchen equipment with the intention being to	
	cook, serve, and store food. (Hoods, ovens, serving line, freezer, refrigeration,	
	etc.)	

12/13 - BOE - Overall budget update and introduction of potential value savings from modifications to the Education Specifications

-No motion or vote from BOE needed

-Intent is to inform and get any initial reactions to potential Ed Spec changes before proceeding with implementation of scope and value capture

12/19 - School Building Committee reviews Value Engineering log and determines which items are appropriate within their charge

-BOE approval would be needed for any items that would change the Ed Specs

January 2023 - BOE reviews and votes on any formal modifications to Ed Specs