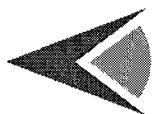


DEPT PRIORITY	Tab	BOARD OF EDUCATION	FUNDING SOURCE	FISCAL YEAR 2022-2023	FISCAL YEAR 2023-2024	FISCAL YEAR 2024-2025	FISCAL YEAR 2025-2026	FISCAL YEAR 2026-2027	TOTAL 2023-2027
Board of Education									
5	001	WHS - TURF FIELDS	3	160,000	160,000	160,000	160,000	160,000	800,000
4	009	Field House Flooring / Bleacher renovation	3	175,000	175,000				350,000
	007	Quaker Hill Heat Pump Replacement	3				165,000	165,000	330,000
3	010	CLMS HVAC - Natural Gas Heat Pumps	1	1,162,500	1,162,500				2,325,000
3		Esser Funding - CLMS HVAC - Natural Gas Heat Pumps		(606,500)	(606,500)				(1,213,000)
	006	Tennis Court	3		350,000	355,000			705,000
									-
1	002	IT - IT LEARNING BOARDS END CF LIFE	3	316,179					316,179
2	003	IT - SECURITY DVR CAMERAS	3	70,000	70,000	125,000	125,000	125,000	515,000
6	005	IT - BOE Munis Implementation	3	70,000	70,000	70,000			210,000
	004	IT - DISTRICT PHONE SYSTEM	3			100,000			100,000
Total Board of Education				1,347,179	1,381,000	810,000	450,000	450,000	4,438,179

**TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM**

DEPARTMENT/AGENCY <u>Board of Education</u>	CONTACT PERSON <u>Thomas W. Giard III</u>
PROJECT NAME <u>Upgrade IT Learning Boards</u>	DEPARTMENT PRIORITY <u>1</u>

1	DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)																																																																							
	This is for the upgrade/replacement of IT learning boards throughout the schools. The systems include an interactive white board, projector, computer, overhead speakers, teacher microphone and interactive devices for the students. These systems are the focal point in the classroom and are used throughout the school district. They are vital for instruction allowing teachers to create interactive lessons for the students. The useful life of the system is up to 10 years. The operating budget has funded and will continue to fund repairs, but these machines are reaching the end of life. End of life is characterized here as becoming less precise, degradation in sound and picture quality, as well as complete failure. This proposal is to fund a CNR project to replace the boards in the following order QH 36, OSW 36, GN 36, and WHS with 86. Clark Lane Middle School was completed over the summer of 2018, summer of 2019 Quaker Hill, 36 units at Oswegatchie where replaced in 2020, 36 units at Great Neck Elementary fall/winter of 21/22. and 86 Smartboards for the High School to occur in the Fall/Winter of 22/23. As of 10/18/2021 \$800,000 has been approved, \$503,521 has been spent, \$170,000 has been requested, leaving \$126,479 for the project plus \$316,179 being requested to fund the final board replacement for WPS which is estimated to cost \$442,658.																																																																							
2	PROJECT STATUS IF IN PROGRESS																																																																							
	<u>N/A</u>																																																																							
3	LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST																																																																							
	<u>N/A</u>																																																																							
4	DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)																																																																							
	<u>N/A</u>																																																																							
5	GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)																																																																							
	<u>N/A</u>																																																																							
6	ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)																																																																							
	Currently the Board of Education is evaluating an Interactive Epson projection solution, Smart Boards and Promethean Solutions. All three solutions are of similar costs.																																																																							
7	COST/FUNDING SOURCE																																																																							
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 35%;">FUNDING SOURCE</th> <th style="width: 15%;">APPROVED FUNDING TO DATE</th> <th style="width: 10%;">FY2023</th> <th style="width: 10%;">FY2024</th> <th style="width: 10%;">FY2025</th> <th style="width: 10%;">FY2026</th> <th style="width: 10%;">FY2027</th> </tr> </thead> <tbody> <tr> <td>1 Current Year Capital</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2 Utility Budget/Sewer Cap Maint Fund</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3 Transfer to CNR</td> <td style="text-align: right;">800,000</td> <td style="text-align: right;">316,179</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4 Short/Long-term Bonds</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5 LoCIP (detail in section 5 above)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>6 CNR Undesignated Fund Balance</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>7 Federal/State Grants (detail in section 5)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>8 Other Funding (detail in section 5 above)</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>TOTALS</td> <td style="text-align: right;">800,000</td> <td style="text-align: right;">316,179</td> <td style="text-align: center;">-</td> <td></td> <td style="text-align: center;">-</td> <td style="text-align: center;">0</td> </tr> </tbody> </table>	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2023	FY2024	FY2025	FY2026	FY2027	1 Current Year Capital							2 Utility Budget/Sewer Cap Maint Fund							3 Transfer to CNR	800,000	316,179					4 Short/Long-term Bonds							5 LoCIP (detail in section 5 above)							6 CNR Undesignated Fund Balance							7 Federal/State Grants (detail in section 5)							8 Other Funding (detail in section 5 above)							TOTALS	800,000	316,179	-		-	0	
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Pro AV Systems
AUDIO VISUAL TECHNOLOGIES

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74 Cotton Mill Hill
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Brattleboro, VT 05301
www.proavsi.com

Prepared by: John Missale

Number: 040221JM
Modified: 4/23/2021
Revision: 0

Contract:

Pricing Valid for 30 Days

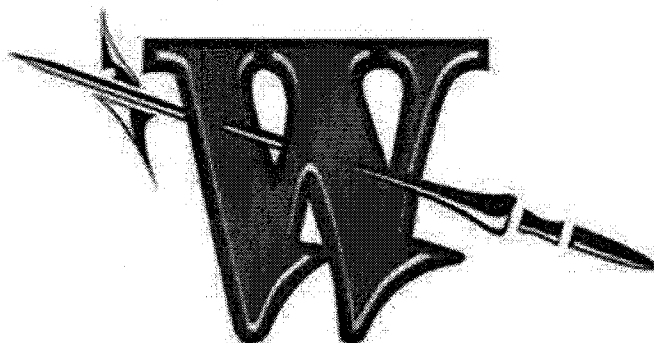
Waterford High School

Waterford High School
20 Rope Ferry Rd
Waterford, CT 06385 United States
860-437-6956

Attention:

Ed Crane
ecrane@waterfordschools.org

Waterford High School - 86" Promethean Wall Mount



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All Electrical and Network Infrastructure to be provided by others unless otherwise noted.



Classrooms 1

1	86" Ppromethean Display	\$4,827.00
	86" Ppromethean Display - Freight Included	
1	Windows PRO i7 OPS	\$1,378.00
	Promethean OPS-M i7 PRO (Windows OS preinstalled)	
1	Wireless Keyboard And Mouse Combo	\$99.00
	Performance Wireless Keyboard and Mouse Combo	
1	Pro AV Systems Miscellaneous - Parts	\$25.00
	Parts needed for a complete system	
	- Raceway and Boxes	
	- Terminations	
	- Adapters	
	- 90 degree corner	
	- 5' Panduit	
1	Pro AV Systems Installation - PW	\$450.00
	Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	

Classrooms 1 Total: \$6,779.00



Classrooms 2

1	86" Promethean Display 86" Promethean Display - Freight Included	\$4,827.00
1	Windows PRO i7 OPS Promethean OPS-M i7 PRO (Windows OS preinstalled)	\$1,378.00
1	Wireless Keyboard And Mouse Combo Performance Wireless Keyboard and Mouse Combo	\$99.00
1	Pro AV Systems Miscellaneous - Parts Parts needed for a complete system - Raceway and Boxes - Terminations - Adapters - 90 degree corner - 5' Panduit	\$25.00
1	Pro AV Systems Installation - PW Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	\$450.00

Classrooms 2 Total: \$6,779.00



Classrooms 3

1	86" Promethean Display 86" Promethean Display - Freight Included	\$4,827.00
1	Windows PRO i7 OPS Promethean OPS-M i7 PRO (Windows OS preinstalled)	\$1,378.00
1	Wireless Keyboard And Mouse Combo Performance Wireless Keyboard and Mouse Combo	\$99.00
1	Pro AV Systems Miscellaneous - Parts Parts needed for a complete system - Raceway and Boxes - Terminations - Adapters - 90 degree corner - 5' Panduit	\$25.00
1	Pro AV Systems Installation - PW Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	\$450.00

Classrooms 3 Total: \$6,779.00



Classrooms 4

1	86" Promethean Display 86" Promethean Display - Freight Included	\$4,827.00
1	Windows PRO i7 OPS Promethean OPS-M i7 PRO (Windows OS preinstalled)	\$1,378.00
1	Wireless Keyboard And Mouse Combo Performance Wireless Keyboard and Mouse Combo	\$99.00
1	Pro AV Systems Miscellaneous - Parts Parts needed for a complete system - Raceway and Boxes - Terminations - Adapters - 90 degree corner - 5' Panduit	\$25.00
1	Pro AV Systems Installation - PW Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	\$450.00

Classrooms 4 Total: \$6,779.00



Classrooms 5

1	86" Promethean Display	\$4,827.00
	86" Promethean Display - Freight Included	
1	Windows PRO i7 OPS	\$1,378.00
	Promethean OPS-M i7 PRO (Windows OS preinstalled)	
1	Wireless Keyboard And Mouse Combo	\$99.00
	Performance Wireless Keyboard and Mouse Combo	
1	Pro AV Systems Miscellaneous - Parts	\$25.00
	Parts needed for a complete system	
	- Raceway and Boxes	
	- Terminations	
	- Adapters	
	- 90 degree corner	
	- 5' Panduit	
1	Pro AV Systems Installation - PW	\$450.00
	Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	

Classrooms 5 Total: \$6,779.00



Classrooms 6

1	86" Promethean Display 86" Promethean Display - Freight Included	\$4,827.00
1	Windows PRO i7 OPS Promethean OPS-M i7 PRO (Windows OS preinstalled)	\$1,378.00
1	Wireless Keyboard And Mouse Combo Performance Wireless Keyboard and Mouse Combo	\$99.00
1	Pro AV Systems Miscellaneous - Parts Parts needed for a complete system - Raceway and Boxes - Terminations - Adapters - 90 degree corner - 5' Panduit	\$25.00
1	Pro AV Systems Installation - PW Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	\$450.00

Classrooms 6 Total: \$6,779.00



Classrooms 7

1	86" Promethean Display	\$4,827.00
	86" Promethean Display - Freight Included	
1	Windows PRO i7 OPS	\$1,378.00
	Promethean OPS-M i7 PRO (Windows OS preinstalled)	
1	Wireless Keyboard And Mouse Combo	\$99.00
	Performance Wireless Keyboard and Mouse Combo	
1	Pro AV Systems Miscellaneous - Parts	\$25.00
	Parts needed for a complete system	
	- Raceway and Boxes	
	- Terminations	
	- Adapters	
	- 90 degree corner	
	- 5' Panduit	
1	Pro AV Systems Installation - PW	\$450.00
	Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	

Classrooms 7 Total: \$6,779.00



Classrooms 8

1	86" Promethean Display 86" Promethean Display - Freight Included	\$4,827.00
1	Windows PRO i7 OPS Promethean OPS-M i7 PRO (Windows OS preinstalled)	\$1,378.00
1	Wireless Keyboard And Mouse Combo Performance Wireless Keyboard and Mouse Combo	\$99.00
1	Pro AV Systems Miscellaneous - Parts Parts needed for a complete system - Raceway and Boxes - Terminations - Adapters - 90 degree corner - 5' Panduit	\$25.00
1	Pro AV Systems Installation - PW Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	\$450.00

Classrooms 8 Total: \$6,779.00



Classrooms 9

1	86" Promethean Display 86" Promethean Display - Freight Included	\$4,827.00
1	Windows PRO i7 OPS Promethean OPS-M i7 PRO (Windows OS preinstalled)	\$1,378.00
1	Wireless Keyboard And Mouse Combo Performance Wireless Keyboard and Mouse Combo	\$99.00
1	Pro AV Systems Miscellaneous - Parts Parts needed for a complete system - Raceway and Boxes - Terminations - Adapters - 90 degree corner - 5' Panduit	\$25.00
1	Pro AV Systems Installation - PW Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	\$450.00

Classrooms 9 Total: \$6,779.00



Classrooms 10

1	86" Ppromethean Display 86" Ppromethean Display - Freight Included	\$4,827.00
1	Windows PRO i7 OPS Promethean OPS-M i7 PRO (Windows OS preinstalled)	\$1,378.00
1	Wireless Keyboard And Mouse Combo Performance Wireless Keyboard and Mouse Combo	\$99.00
1	Pro AV Systems Miscellaneous - Parts Parts needed for a complete system - Raceway and Boxes - Terminations - Adapters - 90 degree corner - 5' Panduit	\$25.00
1	Pro AV Systems Installation - PW Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	\$450.00

Classrooms 10 Total: \$6,779.00



Classrooms 11

1	86" Promethean Display 86" Promethean Display - Freight Included	\$4,827.00
1	Windows PRO i7 OPS Promethean OPS-M i7 PRO (Windows OS preinstalled)	\$1,378.00
1	Wireless Keyboard And Mouse Combo Performance Wireless Keyboard and Mouse Combo	\$99.00
1	Pro AV Systems Miscellaneous - Parts Parts needed for a complete system - Raceway and Boxes - Terminations - Adapters - 90 degree corner - 5' Panduit	\$25.00
1	Pro AV Systems Installation - PW Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	\$450.00

Classrooms 11 Total: \$6,779.00



Classrooms 12

1	86" Ppromethean Display 86" Ppromethean Display - Freight Included	\$4,827.00
1	Windows PRO i7 OPS Promethean OPS-M i7 PRO (Windows OS preinstalled)	\$1,378.00
1	Wireless Keyboard And Mouse Combo Performance Wireless Keyboard and Mouse Combo	\$99.00
1	Pro AV Systems Miscellaneous - Parts Parts needed for a complete system - Raceway and Boxes - Terminations - Adapters - 90 degree corner - 5' Panduit	\$25.00
1	Pro AV Systems Installation - PW Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	\$450.00

Classrooms 12 Total: \$6,779.00



Classrooms 13

1	86" Promethean Display	\$4,827.00
	86" Promethean Display - Freight Included	
1	Windows PRO i7 OPS	\$1,378.00
	Promethean OPS-M i7 PRO (Windows OS preinstalled)	
1	Wireless Keyboard And Mouse Combo	\$99.00
	Performance Wireless Keyboard and Mouse Combo	
1	Pro AV Systems Miscellaneous - Parts	\$25.00
	Parts needed for a complete system	
	- Raceway and Boxes	
	- Terminations	
	- Adapters	
	- 90 degree corner	
	- 5' Panduit	
1	Pro AV Systems Installation - PW	\$450.00
	Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	

Classrooms 13 Total: \$6,779.00



Classrooms 14

1	86" Promethean Display 86" Promethean Display - Freight Included	\$4,827.00
1	Windows PRO i7 OPS Promethean OPS-M i7 PRO (Windows OS preinstalled)	\$1,378.00
1	Wireless Keyboard And Mouse Combo Performance Wireless Keyboard and Mouse Combo	\$99.00
1	Pro AV Systems Miscellaneous - Parts Parts needed for a complete system - Raceway and Boxes - Terminations - Adapters - 90 degree corner - 5' Panduit	\$25.00
1	Pro AV Systems Installation - PW Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	\$450.00

Classrooms 14 Total: \$6,779.00



Classrooms 15

1	86" Ppromethean Display	\$4,827.00
	86" Ppromethean Display - Freight Included	
1	Windows PRO i7 OPS	\$1,378.00
	Promethean OPS-M i7 PRO (Windows OS preinstalled)	
1	Wireless Keyboard And Mouse Combo	\$99.00
	Performance Wireless Keyboard and Mouse Combo	
1	Pro AV Systems Miscellaneous - Parts	\$25.00
	Parts needed for a complete system	
	- Raceway and Boxes	
	- Terminations	
	- Adapters	
	- 90 degree corner	
	- 5' Panduit	
1	Pro AV Systems Installation - PW	\$450.00
	Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	

Classrooms 15 Total: \$6,779.00



Classrooms 16

1	86" Ppromethean Display 86" Ppromethean Display - Freight Included	\$4,827.00
1	Windows PRO i7 OPS Promethean OPS-M i7 PRO (Windows OS preinstalled)	\$1,378.00
1	Wireless Keyboard And Mouse Combo Performance Wireless Keyboard and Mouse Combo	\$99.00
1	Pro AV Systems Miscellaneous - Parts Parts needed for a complete system - Raceway and Boxes - Terminations - Adapters - 90 degree corner - 5' Panduit	\$25.00
1	Pro AV Systems Installation - PW Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	\$450.00

Classrooms 16 Total: \$6,779.00



Classrooms 17

1	86" Promethean Display	\$4,827.00
	86" Promethean Display - Freight Included	
1	Windows PRO i7 OPS	\$1,378.00
	Promethean OPS-M i7 PRO (Windows OS preinstalled)	
1	Wireless Keyboard And Mouse Combo	\$99.00
	Performance Wireless Keyboard and Mouse Combo	
1	Pro AV Systems Miscellaneous - Parts	\$25.00
	Parts needed for a complete system	
	- Raceway and Boxes	
	- Terminations	
	- Adapters	
	- 90 degree corner	
	- 5' Panduit	
1	Pro AV Systems Installation - PW	\$450.00
	Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	

Classrooms 17 Total: \$6,779.00



Classrooms 18

1	86" Ppromethean Display 86" Ppromethean Display - Freight Included	\$4,827.00
1	Windows PRO i7 OPS Promethean OPS-M i7 PRO (Windows OS preinstalled)	\$1,378.00
1	Wireless Keyboard And Mouse Combo Performance Wireless Keyboard and Mouse Combo	\$99.00
1	Pro AV Systems Miscellaneous - Parts Parts needed for a complete system - Raceway and Boxes - Terminations - Adapters - 90 degree corner - 5' Panduit	\$25.00
1	Pro AV Systems Installation - PW Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	\$450.00

Classrooms 18 Total: \$6,779.00



Classrooms 19

1	86" Promethean Display 86" Promethean Display - Freight Included	\$4,827.00
1	Windows PRO i7 OPS Promethean OPS-M i7 PRO (Windows OS preinstalled)	\$1,378.00
1	Wireless Keyboard And Mouse Combo Performance Wireless Keyboard and Mouse Combo	\$99.00
1	Pro AV Systems Miscellaneous - Parts Parts needed for a complete system - Raceway and Boxes - Terminations - Adapters - 90 degree corner - 5' Panduit	\$25.00
1	Pro AV Systems Installation - PW Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	\$450.00

Classrooms 19 Total: \$6,779.00



Classrooms 20

1	86" Promethean Display	\$4,827.00
	86" Promethean Display - Freight Included	
1	Windows PRO i7 OPS	\$1,378.00
	Promethean OPS-M i7 PRO (Windows OS preinstalled)	
1	Wireless Keyboard And Mouse Combo	\$99.00
	Performance Wireless Keyboard and Mouse Combo	
1	Pro AV Systems Miscellaneous - Parts	\$25.00
	Parts needed for a complete system	
	- Raceway and Boxes	
	- Terminations	
	- Adapters	
	- 90 degree corner	
	- 5' Panduit	
1	Pro AV Systems Installation - PW	\$450.00
	Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	

Classrooms 20 Total: \$6,779.00



Classrooms 21

1	86" Ppromethean Display 86" Ppromethean Display - Freight Included	\$4,827.00
1	Windows PRO i7 OPS Promethean OPS-M i7 PRO (Windows OS preinstalled)	\$1,378.00
1	Wireless Keyboard And Mouse Combo Performance Wireless Keyboard and Mouse Combo	\$99.00
1	Pro AV Systems Miscellaneous - Parts Parts needed for a complete system - Raceway and Boxes - Terminations - Adapters - 90 degree corner - 5' Panduit	\$25.00
1	Pro AV Systems Installation - PW Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	\$450.00

Classrooms 21 Total: \$6,779.00



Classrooms 22

1	86" Promethean Display	\$4,827.00
	86" Promethean Display - Freight Included	
1	Windows PRO i7 OPS	\$1,378.00
	Promethean OPS-M i7 PRO (Windows OS preinstalled)	
1	Wireless Keyboard And Mouse Combo	\$99.00
	Performance Wireless Keyboard and Mouse Combo	
1	Pro AV Systems Miscellaneous - Parts	\$25.00
	Parts needed for a complete system	
	- Raceway and Boxes	
	- Terminations	
	- Adapters	
	- 90 degree corner	
	- 5' Panduit	
1	Pro AV Systems Installation - PW	\$450.00
	Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	

Classrooms 22 Total: \$6,779.00



Classrooms 23

1	86" Promethean Display	\$4,827.00
	86" Promethean Display - Freight Included	
1	Windows PRO i7 OPS	\$1,378.00
	Promethean OPS-M i7 PRO (Windows OS preinstalled)	
1	Wireless Keyboard And Mouse Combo	\$99.00
	Performance Wireless Keyboard and Mouse Combo	
1	Pro AV Systems Miscellaneous - Parts	\$25.00
	Parts needed for a complete system	
	- Raceway and Boxes	
	- Terminations	
	- Adapters	
	- 90 degree corner	
	- 5' Panduit	
1	Pro AV Systems Installation - PW	\$450.00
	Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	

Classrooms 23 Total: \$6,779.00



Classrooms 24

1	86" Ppromethean Display 86" Ppromethean Display - Freight Included	\$4,827.00
1	Windows PRO i7 OPS Promethean OPS-M i7 PRO (Windows OS preinstalled)	\$1,378.00
1	Wireless Keyboard And Mouse Combo Performance Wireless Keyboard and Mouse Combo	\$99.00
1	Pro AV Systems Miscellaneous - Parts Parts needed for a complete system - Raceway and Boxes - Terminations - Adapters - 90 degree corner - 5' Panduit	\$25.00
1	Pro AV Systems Installation - PW Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	\$450.00

Classrooms 24 Total: \$6,779.00



Classrooms 25

1	86" Promethean Display	\$4,827.00
	86" Promethean Display - Freight Included	
1	Windows PRO i7 OPS	\$1,378.00
	Promethean OPS-M i7 PRO (Windows OS preinstalled)	
1	Wireless Keyboard And Mouse Combo	\$99.00
	Performance Wireless Keyboard and Mouse Combo	
1	Pro AV Systems Miscellaneous - Parts	\$25.00
	Parts needed for a complete system	
	- Raceway and Boxes	
	- Terminations	
	- Adapters	
	- 90 degree corner	
	- 5' Panduit	
1	Pro AV Systems Installation - PW	\$450.00
	Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	

Classrooms 25 Total: \$6,779.00



Classrooms 26

1	86" Ppromethean Display 86" Ppromethean Display - Freight Included	\$4,827.00
1	Windows PRO i7 OPS Promethean OPS-M i7 PRO (Windows OS preinstalled)	\$1,378.00
1	Wireless Keyboard And Mouse Combo Performance Wireless Keyboard and Mouse Combo	\$99.00
1	Pro AV Systems Miscellaneous - Parts Parts needed for a complete system - Raceway and Boxes - Terminations - Adapters - 90 degree corner - 5' Panduit	\$25.00
1	Pro AV Systems Installation - PW Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	\$450.00

Classrooms 26 Total: \$6,779.00



Classrooms 27

1	86" Promethean Display 86" Promethean Display - Freight Included	\$4,827.00
1	Windows PRO i7 OPS Promethean OPS-M i7 PRO (Windows OS preinstalled)	\$1,378.00
1	Wireless Keyboard And Mouse Combo Performance Wireless Keyboard and Mouse Combo	\$99.00
1	Pro AV Systems Miscellaneous - Parts Parts needed for a complete system - Raceway and Boxes - Terminations - Adapters - 90 degree corner - 5' Panduit	\$25.00
1	Pro AV Systems Installation - PW Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	\$450.00

Classrooms 27 Total: \$6,779.00



Classrooms 28

1	86" Ppromethean Display 86" Ppromethean Display - Freight Included	\$4,827.00
1	Windows PRO i7 OPS Promethean OPS-M i7 PRO (Windows OS preinstalled)	\$1,378.00
1	Wireless Keyboard And Mouse Combo Performance Wireless Keyboard and Mouse Combo	\$99.00
1	Pro AV Systems Miscellaneous - Parts Parts needed for a complete system - Raceway and Boxes - Terminations - Adapters - 90 degree corner - 5' Panduit	\$25.00
1	Pro AV Systems Installation - PW Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	\$450.00

Classrooms 28 Total: \$6,779.00



Classrooms 29

1	86" Promethean Display 86" Promethean Display - Freight Included	\$4,827.00
1	Windows PRO i7 OPS Promethean OPS-M i7 PRO (Windows OS preinstalled)	\$1,378.00
1	Wireless Keyboard And Mouse Combo Performance Wireless Keyboard and Mouse Combo	\$99.00
1	Pro AV Systems Miscellaneous - Parts Parts needed for a complete system - Raceway and Boxes - Terminations - Adapters - 90 degree corner - 5' Panduit	\$25.00
1	Pro AV Systems Installation - PW Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	\$450.00

Classrooms 29 Total: \$6,779.00



Classrooms 30

1	86" Ppromethean Display 86" Ppromethean Display - Freight Included	\$4,827.00
1	Windows PRO i7 OPS Promethean OPS-M i7 PRO (Windows OS preinstalled)	\$1,378.00
1	Wireless Keyboard And Mouse Combo Performance Wireless Keyboard and Mouse Combo	\$99.00
1	Pro AV Systems Miscellaneous - Parts Parts needed for a complete system - Raceway and Boxes - Terminations - Adapters - 90 degree corner - 5' Panduit	\$25.00
1	Pro AV Systems Installation - PW Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	\$450.00

Classrooms 30 Total: \$6,779.00



Classrooms 31

1	86" Promethean Display	\$4,827.00
	86" Promethean Display - Freight Included	
1	Windows PRO i7 OPS	\$1,378.00
	Promethean OPS-M i7 PRO (Windows OS preinstalled)	
1	Wireless Keyboard And Mouse Combo	\$99.00
	Performance Wireless Keyboard and Mouse Combo	
1	Pro AV Systems Miscellaneous - Parts	\$25.00
	Parts needed for a complete system	
	- Raceway and Boxes	
	- Terminations	
	- Adapters	
	- 90 degree corner	
	- 5' Panduit	
1	Pro AV Systems Installation - PW	\$450.00
	Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	

Classrooms 31 Total: \$6,779.00



Classrooms 32

1	86" Ppromethean Display 86" Ppromethean Display - Freight Included	\$4,827.00
1	Windows PRO i7 OPS Promethean OPS-M i7 PRO (Windows OS preinstalled)	\$1,378.00
1	Wireless Keyboard And Mouse Combo Performance Wireless Keyboard and Mouse Combo	\$99.00
1	Pro AV Systems Miscellaneous - Parts Parts needed for a complete system - Raceway and Boxes - Terminations - Adapters - 90 degree corner - 5' Panduit	\$25.00
1	Pro AV Systems Installation - PW Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	\$450.00

Classrooms 32 Total: \$6,779.00



Classrooms 33

1	86" Ppromethean Display	\$4,827.00
	86" Ppromethean Display - Freight Included	
1	Windows PRO i7 OPS	\$1,378.00
	Promethean OPS-M i7 PRO (Windows OS preinstalled)	
1	Wireless Keyboard And Mouse Combo	\$99.00
	Performance Wireless Keyboard and Mouse Combo	
1	Pro AV Systems Miscellaneous - Parts	\$25.00
	Parts needed for a complete system	
	- Raceway and Boxes	
	- Terminations	
	- Adapters	
	- 90 degree corner	
	- 5' Panduit	
1	Pro AV Systems Installation - PW	\$450.00
	Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	

Classrooms 33 Total: \$6,779.00



Classrooms 34

1	86" Promethean Display	\$4,827.00
	86" Promethean Display - Freight Included	
1	Windows PRO i7 OPS	\$1,378.00
	Promethean OPS-M i7 PRO (Windows OS preinstalled)	
1	Wireless Keyboard And Mouse Combo	\$99.00
	Performance Wireless Keyboard and Mouse Combo	
1	Pro AV Systems Miscellaneous - Parts	\$25.00
	Parts needed for a complete system	
	- Raceway and Boxes	
	- Terminations	
	- Adapters	
	- 90 degree corner	
	- 5' Panduit	
1	Pro AV Systems Installation - PW	\$450.00
	Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	

Classrooms 34 Total: \$6,779.00



Classrooms 35

1	86" Ppromethean Display 86" Ppromethean Display - Freight Included	\$4,827.00
1	Windows PRO i7 OPS Promethean OPS-M i7 PRO (Windows OS preinstalled)	\$1,378.00
1	Wireless Keyboard And Mouse Combo Performance Wireless Keyboard and Mouse Combo	\$99.00
1	Pro AV Systems Miscellaneous - Parts Parts needed for a complete system - Raceway and Boxes - Terminations - Adapters - 90 degree corner - 5' Panduit	\$25.00
1	Pro AV Systems Installation - PW Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	\$450.00

Classrooms 35 Total: \$6,779.00



Classrooms 36

1	86" Ppromethean Display 86" Ppromethean Display - Freight Included	\$4,827.00
1	Windows PRO i7 OPS Promethean OPS-M i7 PRO (Windows OS preinstalled)	\$1,378.00
1	Wireless Keyboard And Mouse Combo Performance Wireless Keyboard and Mouse Combo	\$99.00
1	Pro AV Systems Miscellaneous - Parts Parts needed for a complete system - Raceway and Boxes - Terminations - Adapters - 90 degree corner - 5' Panduit	\$25.00
1	Pro AV Systems Installation - PW Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	\$450.00

Classrooms 36 Total: \$6,779.00



Classrooms 37

1	86" Promethean Display	\$4,827.00
	86" Promethean Display - Freight Included	
1	Windows PRO i7 OPS	\$1,378.00
	Promethean OPS-M i7 PRO (Windows OS preinstalled)	
1	Wireless Keyboard And Mouse Combo	\$99.00
	Performance Wireless Keyboard and Mouse Combo	
1	Pro AV Systems Miscellaneous - Parts	\$25.00
	Parts needed for a complete system	
	- Raceway and Boxes	
	- Terminations	
	- Adapters	
	- 90 degree corner	
	- 5' Panduit	
1	Pro AV Systems Installation - PW	\$450.00
	Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	

Classrooms 37 Total: \$6,779.00



Classrooms 38

1	86" Ppromethean Display 86" Ppromethean Display - Freight Included	\$4,827.00
1	Windows PRO i7 OPS Promethean OPS-M i7 PRO (Windows OS preinstalled)	\$1,378.00
1	Wireless Keyboard And Mouse Combo Performance Wireless Keyboard and Mouse Combo	\$99.00
1	Pro AV Systems Miscellaneous - Parts Parts needed for a complete system - Raceway and Boxes - Terminations - Adapters - 90 degree corner - 5' Panduit	\$25.00
1	Pro AV Systems Installation - PW Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	\$450.00

Classrooms 38 Total: \$6,779.00

**Classrooms 39**

1	86" Ppromethean Display	\$4,827.00
	86" Ppromethean Display - Freight Included	
1	Windows PRO i7 OPS	\$1,378.00
	Promethean OPS-M i7 PRO (Windows OS preinstalled)	
1	Wireless Keyboard And Mouse Combo	\$99.00
	Performance Wireless Keyboard and Mouse Combo	
1	Pro AV Systems Miscellaneous - Parts	\$25.00
	Parts needed for a complete system	
	- Raceway and Boxes	
	- Terminations	
	- Adapters	
	- 90 degree corner	
	- 5' Panduit	
1	Pro AV Systems Installation - PW	\$450.00
	Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	

Classrooms 39 Total: \$6,779.00



Classrooms 40

1	86" Ppromethean Display 86" Ppromethean Display - Freight Included	\$4,827.00
1	Windows PRO i7 OPS Promethean OPS-M i7 PRO (Windows OS preinstalled)	\$1,378.00
1	Wireless Keyboard And Mouse Combo Performance Wireless Keyboard and Mouse Combo	\$99.00
1	Pro AV Systems Miscellaneous - Parts Parts needed for a complete system - Raceway and Boxes - Terminations - Adapters - 90 degree corner - 5' Panduit	\$25.00
1	Pro AV Systems Installation - PW Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	\$450.00

Classrooms 40 Total: \$6,779.00



Classrooms 41

1	86" Ppromethean Display	\$4,827.00
	86" Ppromethean Display - Freight Included	
1	Windows PRO i7 OPS	\$1,378.00
	Promethean OPS-M i7 PRO (Windows OS preinstalled)	
1	Wireless Keyboard And Mouse Combo	\$99.00
	Performance Wireless Keyboard and Mouse Combo	
1	Pro AV Systems Miscellaneous - Parts	\$25.00
	Parts needed for a complete system	
	- Raceway and Boxes	
	- Terminations	
	- Adapters	
	- 90 degree corner	
	- 5' Panduit	
1	Pro AV Systems Installation - PW	\$450.00
	Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	

Classrooms 41 Total: \$6,779.00



Classrooms 42

1	86" Promethean Display 86" Promethean Display - Freight Included	\$4,827.00
1	Windows PRO i7 OPS Promethean OPS-M i7 PRO (Windows OS preinstalled)	\$1,378.00
1	Wireless Keyboard And Mouse Combo Performance Wireless Keyboard and Mouse Combo	\$99.00
1	Pro AV Systems Miscellaneous - Parts Parts needed for a complete system - Raceway and Boxes - Terminations - Adapters - 90 degree corner - 5' Panduit	\$25.00
1	Pro AV Systems Installation - PW Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	\$450.00

Classrooms 42 Total: \$6,779.00



Classrooms 43

1	86" Ppromethean Display	\$4,827.00
	86" Ppromethean Display - Freight Included	
1	Windows PRO i7 OPS	\$1,378.00
	Promethean OPS-M i7 PRO (Windows OS preinstalled)	
1	Wireless Keyboard And Mouse Combo	\$99.00
	Performance Wireless Keyboard and Mouse Combo	
1	Pro AV Systems Miscellaneous - Parts	\$25.00
	Parts needed for a complete system	
	- Raceway and Boxes	
	- Terminations	
	- Adapters	
	- 90 degree corner	
	- 5' Panduit	
1	Pro AV Systems Installation - PW	\$450.00
	Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	

Classrooms 43 Total: \$6,779.00



Classrooms 44

1	86" Ppromethean Display 86" Ppromethean Display - Freight Included	\$4,827.00
1	Windows PRO i7 OPS Promethean OPS-M i7 PRO (Windows OS preinstalled)	\$1,378.00
1	Wireless Keyboard And Mouse Combo Performance Wireless Keyboard and Mouse Combo	\$99.00
1	Pro AV Systems Miscellaneous - Parts Parts needed for a complete system - Raceway and Boxes - Terminations - Adapters - 90 degree corner - 5' Panduit	\$25.00
1	Pro AV Systems Installation - PW Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	\$450.00

Classrooms 44 Total: \$6,779.00



Classrooms 45

1	86" Ppromethean Display	\$4,827.00
	86" Ppromethean Display - Freight Included	
1	Windows PRO i7 OPS	\$1,378.00
	Promethean OPS-M i7 PRO (Windows OS preinstalled)	
1	Wireless Keyboard And Mouse Combo	\$99.00
	Performance Wireless Keyboard and Mouse Combo	
1	Pro AV Systems Miscellaneous - Parts	\$25.00
	Parts needed for a complete system	
	- Raceway and Boxes	
	- Terminations	
	- Adapters	
	- 90 degree corner	
	- 5' Panduit	
1	Pro AV Systems Installation - PW	\$450.00
	Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	

Classrooms 45 Total: \$6,779.00



Classrooms 46

1	86" Ppromethean Display 86" Ppromethean Display - Freight Included	\$4,827.00
1	Windows PRO i7 OPS Promethean OPS-M i7 PRO (Windows OS preinstalled)	\$1,378.00
1	Wireless Keyboard And Mouse Combo Performance Wireless Keyboard and Mouse Combo	\$99.00
1	Pro AV Systems Miscellaneous - Parts Parts needed for a complete system - Raceway and Boxes - Terminations - Adapters - 90 degree corner - 5' Panduit	\$25.00
1	Pro AV Systems Installation - PW Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	\$450.00

Classrooms 46 Total: \$6,779.00



Classrooms 47

1	86" Ppromethean Display	\$4,827.00
	86" Ppromethean Display - Freight Included	
1	Windows PRO i7 OPS	\$1,378.00
	Promethean OPS-M i7 PRO (Windows OS preinstalled)	
1	Wireless Keyboard And Mouse Combo	\$99.00
	Performance Wireless Keyboard and Mouse Combo	
1	Pro AV Systems Miscellaneous - Parts	\$25.00
	Parts needed for a complete system	
	- Raceway and Boxes	
	- Terminations	
	- Adapters	
	- 90 degree corner	
	- 5' Panduit	
1	Pro AV Systems Installation - PW	\$450.00
	Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	

Classrooms 47 Total: \$6,779.00



Classrooms 48

1	86" Promethean Display	\$4,827.00
	86" Promethean Display - Freight Included	
1	Windows PRO i7 OPS	\$1,378.00
	Promethean OPS-M i7 PRO (Windows OS preinstalled)	
1	Wireless Keyboard And Mouse Combo	\$99.00
	Performance Wireless Keyboard and Mouse Combo	
1	Pro AV Systems Miscellaneous - Parts	\$25.00
	Parts needed for a complete system	
	- Raceway and Boxes	
	- Terminations	
	- Adapters	
	- 90 degree corner	
	- 5' Panduit	
1	Pro AV Systems Installation - PW	\$450.00
	Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	

Classrooms 48 Total: \$6,779.00



Classrooms 49

1	86" Promethean Display	\$4,827.00
	86" Promethean Display - Freight Included	
1	Windows PRO i7 OPS	\$1,378.00
	Promethean OPS-M i7 PRO (Windows OS preinstalled)	
1	Wireless Keyboard And Mouse Combo	\$99.00
	Performance Wireless Keyboard and Mouse Combo	
1	Pro AV Systems Miscellaneous - Parts	\$25.00
	Parts needed for a complete system	
	- Raceway and Boxes	
	- Terminations	
	- Adapters	
	- 90 degree corner	
	- 5' Panduit	
1	Pro AV Systems Installation - PW	\$450.00
	Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	

Classrooms 49 Total: \$6,779.00



Classrooms 50

1	86" Ppromethean Display 86" Ppromethean Display - Freight Included	\$4,827.00
1	Windows PRO i7 OPS Promethean OPS-M i7 PRO (Windows OS preinstalled)	\$1,378.00
1	Wireless Keyboard And Mouse Combo Performance Wireless Keyboard and Mouse Combo	\$99.00
1	Pro AV Systems Miscellaneous - Parts Parts needed for a complete system - Raceway and Boxes - Terminations - Adapters - 90 degree corner - 5' Panduit	\$25.00
1	Pro AV Systems Installation - PW Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	\$450.00

Classrooms 50 Total: \$6,779.00



Classrooms 51

1	86" Promethean Display	\$4,827.00
	86" Promethean Display - Freight Included	
1	Windows PRO i7 OPS	\$1,378.00
	Promethean OPS-M i7 PRO (Windows OS preinstalled)	
1	Wireless Keyboard And Mouse Combo	\$99.00
	Performance Wireless Keyboard and Mouse Combo	
1	Pro AV Systems Miscellaneous - Parts	\$25.00
	Parts needed for a complete system	
	- Raceway and Boxes	
	- Terminations	
	- Adapters	
	- 90 degree corner	
	- 5' Panduit	
1	Pro AV Systems Installation - PW	\$450.00
	Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	

Classrooms 51 Total: \$6,779.00



Classrooms 52

1	86" Ppromethean Display 86" Ppromethean Display - Freight Included	\$4,827.00
1	Windows PRO i7 OPS Promethean OPS-M i7 PRO (Windows OS preinstalled)	\$1,378.00
1	Wireless Keyboard And Mouse Combo Performance Wireless Keyboard and Mouse Combo	\$99.00
1	Pro AV Systems Miscellaneous - Parts Parts needed for a complete system - Raceway and Boxes - Terminations - Adapters - 90 degree corner - 5' Panduit	\$25.00
1	Pro AV Systems Installation - PW Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	\$450.00

Classrooms 52 Total: \$6,779.00



Classrooms 53

1	86" Promethean Display	\$4,827.00
	86" Promethean Display - Freight Included	
1	Windows PRO i7 OPS	\$1,378.00
	Promethean OPS-M i7 PRO (Windows OS preinstalled)	
1	Wireless Keyboard And Mouse Combo	\$99.00
	Performance Wireless Keyboard and Mouse Combo	
1	Pro AV Systems Miscellaneous - Parts	\$25.00
	Parts needed for a complete system	
	- Raceway and Boxes	
	- Terminations	
	- Adapters	
	- 90 degree corner	
	- 5' Panduit	
1	Pro AV Systems Installation - PW	\$450.00
	Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	

Classrooms 53 Total: \$6,779.00



Classrooms 54

1	86" Promethean Display 86" Promethean Display - Freight Included	\$4,827.00
1	Windows PRO i7 OPS Promethean OPS-M i7 PRO (Windows OS preinstalled)	\$1,378.00
1	Wireless Keyboard And Mouse Combo Performance Wireless Keyboard and Mouse Combo	\$99.00
1	Pro AV Systems Miscellaneous - Parts Parts needed for a complete system - Raceway and Boxes - Terminations - Adapters - 90 degree corner - 5' Panduit	\$25.00
1	Pro AV Systems Installation - PW Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	\$450.00

Classrooms 54 Total: \$6,779.00



Classrooms 55

1	86" Promethean Display	\$4,827.00
	86" Ppromethean Display - Freight Included	
1	Windows PRO i7 OPS	\$1,378.00
	Promethean OPS-M i7 PRO (Windows OS preinstalled)	
1	Wireless Keyboard And Mouse Combo	\$99.00
	Performance Wireless Keyboard and Mouse Combo	
1	Pro AV Systems Miscellaneous - Parts	\$25.00
	Parts needed for a complete system	
	- Raceway and Boxes	
	- Terminations	
	- Adapters	
	- 90 degree corner	
	- 5' Panduit	
1	Pro AV Systems Installation - PW	\$450.00
	Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	

Classrooms 55 Total: \$6,779.00



Classrooms 56

1	86" Promethean Display	\$4,827.00
	86" Promethean Display - Freight Included	
1	Windows PRO i7 OPS	\$1,378.00
	Promethean OPS-M i7 PRO (Windows OS preinstalled)	
1	Wireless Keyboard And Mouse Combo	\$99.00
	Performance Wireless Keyboard and Mouse Combo	
1	Pro AV Systems Miscellaneous - Parts	\$25.00
	Parts needed for a complete system	
	- Raceway and Boxes	
	- Terminations	
	- Adapters	
	- 90 degree corner	
	- 5' Panduit	
1	Pro AV Systems Installation - PW	\$450.00
	Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	

Classrooms 56 Total: \$6,779.00



Classrooms 57

1	86" Promethean Display	\$4,827.00
	86" Promethean Display - Freight Included	
1	Windows PRO i7 OPS	\$1,378.00
	Promethean OPS-M i7 PRO (Windows OS preinstalled)	
1	Wireless Keyboard And Mouse Combo	\$99.00
	Performance Wireless Keyboard and Mouse Combo	
1	Pro AV Systems Miscellaneous - Parts	\$25.00
	Parts needed for a complete system	
	- Raceway and Boxes	
	- Terminations	
	- Adapters	
	- 90 degree corner	
	- 5' Panduit	
1	Pro AV Systems Installation - PW	\$450.00
	Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	

Classrooms 57 Total: \$6,779.00



Classrooms 58

1	86" Ppromethean Display 86" Ppromethean Display - Freight Included	\$4,827.00
1	Windows PRO i7 OPS Promethean OPS-M i7 PRO (Windows OS preinstalled)	\$1,378.00
1	Wireless Keyboard And Mouse Combo Performance Wireless Keyboard and Mouse Combo	\$99.00
1	Pro AV Systems Miscellaneous - Parts Parts needed for a complete system - Raceway and Boxes - Terminations - Adapters - 90 degree corner - 5' Panduit	\$25.00
1	Pro AV Systems Installation - PW Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	\$450.00

Classrooms 58 Total: \$6,779.00

**Classrooms 59**

1	86" Ppromethean Display	\$4,827.00
	86" Ppromethean Display - Freight Included	
1	Windows PRO i7 OPS	\$1,378.00
	Promethean OPS-M i7 PRO (Windows OS preinstalled)	
1	Wireless Keyboard And Mouse Combo	\$99.00
	Performance Wireless Keyboard and Mouse Combo	
1	Pro AV Systems Miscellaneous - Parts	\$25.00
	Parts needed for a complete system	
	- Raceway and Boxes	
	- Terminations	
	- Adapters	
	- 90 degree corner	
	- 5' Panduit	
1	Pro AV Systems Installation - PW	\$450.00
	Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	

Classrooms 59 Total: \$6,779.00



Classrooms 60

1	86" Ppromethean Display	\$4,827.00
	86" Ppromethean Display - Freight Included	
1	Windows PRO i7 OPS	\$1,378.00
	Promethean OPS-M i7 PRO (Windows OS preinstalled)	
1	Wireless Keyboard And Mouse Combo	\$99.00
	Performance Wireless Keyboard and Mouse Combo	
1	Pro AV Systems Miscellaneous - Parts	\$25.00
	Parts needed for a complete system	
	- Raceway and Boxes	
	- Terminations	
	- Adapters	
	- 90 degree corner	
	- 5' Panduit	
1	Pro AV Systems Installation - PW	\$450.00
	Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	

Classrooms 60 Total: \$6,779.00



Classrooms 61

1	86" Ppromethean Display	\$4,827.00
	86" Ppromethean Display - Freight Included	
1	Windows PRO i7 OPS	\$1,378.00
	Promethean OPS-M i7 PRO (Windows OS preinstalled)	
1	Wireless Keyboard And Mouse Combo	\$99.00
	Performance Wireless Keyboard and Mouse Combo	
1	Pro AV Systems Miscellaneous - Parts	\$25.00
	Parts needed for a complete system	
	- Raceway and Boxes	
	- Terminations	
	- Adapters	
	- 90 degree corner	
	- 5' Panduit	
1	Pro AV Systems Installation - PW	\$450.00
	Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	

Classrooms 61 Total: \$6,779.00



Classrooms 62

1	86" Promethean Display	\$4,827.00
	86" Promethean Display - Freight Included	
1	Windows PRO i7 OPS	\$1,378.00
	Promethean OPS-M i7 PRO (Windows OS preinstalled)	
1	Wireless Keyboard And Mouse Combo	\$99.00
	Performance Wireless Keyboard and Mouse Combo	
1	Pro AV Systems Miscellaneous - Parts	\$25.00
	Parts needed for a complete system	
	- Raceway and Boxes	
	- Terminations	
	- Adapters	
	- 90 degree corner	
	- 5' Panduit	
1	Pro AV Systems Installation - PW	\$450.00
	Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	

Classrooms 62 Total: \$6,779.00



Classrooms 63

1	86" Promethean Display	\$4,827.00
	86" Promethean Display - Freight Included	
1	Windows PRO i7 OPS	\$1,378.00
	Promethean OPS-M i7 PRO (Windows OS preinstalled)	
1	Wireless Keyboard And Mouse Combo	\$99.00
	Performance Wireless Keyboard and Mouse Combo	
1	Pro AV Systems Miscellaneous - Parts	\$25.00
	Parts needed for a complete system	
	- Raceway and Boxes	
	- Terminations	
	- Adapters	
	- 90 degree corner	
	- 5' Panduit	
1	Pro AV Systems Installation - PW	\$450.00
	Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	

Classrooms 63 Total: \$6,779.00



Classrooms 64

1	86" Ppromethean Display 86" Ppromethean Display - Freight Included	\$4,827.00
1	Windows PRO i7 OPS Promethean OPS-M i7 PRO (Windows OS preinstalled)	\$1,378.00
1	Wireless Keyboard And Mouse Combo Performance Wireless Keyboard and Mouse Combo	\$99.00
1	Pro AV Systems Miscellaneous - Parts Parts needed for a complete system - Raceway and Boxes - Terminations - Adapters - 90 degree corner - 5' Panduit	\$25.00
1	Pro AV Systems Installation - PW Installation Service for Complete System - OFE Systems Will Be Removed By Facilities And Cables Provided By School	\$450.00

Classrooms 64 Total: \$6,779.00

Mobile

1	86" Promethean Display ActivPanel Nickel 86" - 1 x Pen, Vesa Mount, WIFI Module & cable pack included. ActivInspire Professional Edition available FOC Freight Included	\$4,827.00
1	Windows PRO i7 OPS Promethean OPS-M i7 PRO (Windows OS preinstalled)	\$1,378.00
1	Mobile Cart Fixed Height Mobile Display Stand/Cart for use with ActivPanel Side Mounted Laptop Shelf for use with Promethean Display Stand Systems Freight Included	\$649.00
1	Wireless Keyboard And Mouse Combo Performance Wireless Keyboard and Mouse Combo	\$99.00
1	Pro AV Systems Installation - PW Installation Service for Complete System	\$450.00

Mobile Total: \$7,403.00



Professional Development

1	Promethean PROFDEV	\$999.00
	On Site Face-To-Face Full Day	

Professional Development Total: \$999.00

Trash - Recycling

1	Pro AV Systems Misc Expense	\$400.00
	Misc Expense - 15 Yard Roll Off Dumpster	

Trash - Recycling Total: \$400.00

Project Subtotal: \$442,658.00



Project Summary

Equipment:	\$413,408.00
Unassigned Labor:	\$29,250.00
Grand Total:	\$442,658.00

Payment Schedule

	Amount	Due Date
Initial Invoice Upon Equipment Ordered (Due Prior to Install)	\$309,860.60	
Final Invoice Upon Completion (NET 30)	\$132,797.40	

Acceptance:

I hereby state that I am an authorized representative to approve the purchase and acceptance of the items quoted in the attached documentation along with the above payment terms.

Name:

Title:

Signature:

Date:



PRO AV SYSTEMS RESPONSIBILITIES: *The following items are required by Pro AV Systems:*

1. Pro AV Systems will install all equipment in accordance with the manufacturers' specifications, national and local regulation ordinances and codes, including all OSHA guidelines. Unless specifically stated, all work will be performed during the normal working hours of Monday through Friday, between 8:00AM and 5:00PM, except for recognized holidays.
2. Pro AV Systems staff and contractors will conduct themselves in a professional, courteous manner, maintaining a clean-cut appearance and acceptable dress. All Pro AV Systems staff is expected to check in and out with you or an assigned contact at the beginning and end of the workday.
3. Pro AV Systems staff will maintain a clean and safe work environment. All unused materials, containers, tools and equipment will be removed whenever possible. Pro AV Systems will take precautions to protect all floors, walls, windows and other surfaces from stains, marring or other damage.
4. Pro AV Systems cannot be responsible for the operation, performance or warranty of equipment outside this contract. Pro AV Systems does not warrant that equipment supplied by others can be connected or will function properly except as specified by the project documentation.
5. Pro AV Systems will provide customer with all operation manuals and warranty documents.
6. Pro AV Systems will acquire, assemble, deliver and test all specified equipment and components to provide you with a fully functional system.

CUSTOMER RESPONSIBILITIES: *The following items are required by the Customer:*

1. Customer to provide a 120 VAC circuit to all specified equipment locations. These circuits should not be "shared" with other items, such as lighting, phone systems, etc.
2. Customer to provide all computer equipment and peripheral cables (mouse and keyboard cables), designated as OFE or "provided by others" if required.
3. Pro AV Systems strongly recommends that all electrical circuits supplying power to the system originate from the same power panel and phase. Pro AV Systems will take precautions to prevent hum or distortions created by ground differential, electromagnetic or electrostatic fields and to supply adequate ventilation to all equipment as specified by the manufacturer. Pro AV Systems will notify you of any hum or distortions beyond our control caused by interference with the building structure, electrical or existing equipment and advise you of the alternatives to alleviate the problem. Pro AV Systems will advise you of any unsatisfactory operating condition due to temperature, humidity, ventilation, mechanical structure or other safety concern.
4. Pro AV Systems assumes no responsibility for, and will not perform any work related to, electrical wiring (120 VAC and above).
5. Any additional work not listed in the original scope of work (per customer RFP) will require a Change Order.
6. All network configurations for any equipment connected to the customer network including but not limited to QOS, VLAN, Routing, Firewalls, Multicast, IGMP.
7. All server configurations if required for Active Directory, Exchange, O365, Azure AD, MS Teams, Zoom.
8. Software licenses or accounts required for an operational system including but not limited to Zoom Rooms and Teams Rooms.

TERMS & CONDITIONS:

Section 1 – Proposal Description

1.A. Proposal Description - The project description and specific work to be performed by Pro AV Systems is contained in the document and from herein referred to as the Proposal.

1.B. Proposal Documents - All work covered by this Proposal shall be contained in the Proposal documents including any special provisions, specifications, drawings, addenda, change orders, written interpretations and written orders. Work not covered by contract documents will not be required unless required by reasonable inference as being necessary to produce the intended result. The costs associated with any related work or materials, including, but not limited to electrical, drywall, painting, cabinets etc. are not included unless specifically documented in the Proposal.



1.C. Proposal Changes - The owner may order changes, additions or modifications without invalidating the contract. Such changes must be in writing and signed by the owner. Pro AV Systems will provide the owner in writing the amount of additional costs or reductions resulting from changes ordered within 15 working days unless this requirement is waived in writing by owner. Change Orders shall be paid in full upon acceptance of change and shall not alter the contract's payment schedule. In the case of product unavailability or discontinuation, Pro AV Systems reserves the right to substitute equipment of equal or better quality with owner approval. Pro AV Systems will be held blameless in the case of product unavailability or discontinuation.

Section 2 – General Facility Conditions

2.A. Room Availability - Rooms in which installation is occurring should be made available for the exclusive use of Pro AV Systems during the day(s) of scheduled installation. The room will be available during normal working hours (M-F, 8:00am-5:00pm) in eight (8) continuous hour segments. Any delay in schedule that is due to limited access or client usage that results in a return trip by the technician(s) will be subject to an additional expense charge.

2.B. Electrical Outlets and Pathways - Before audiovisual equipment is installed, the customer will need to provide the following requirements: electrical outlets, floor boxes, conduits and core drills in areas according to specification. Additionally, all power runs are to be clean and properly grounded. All electrical work pertaining to the audiovisual system will need to run on one phase and be installed to code (NEC). Pro AV Systems is not responsible for installing any conduit, floor boxes, trenches or other appurtenances associated with high voltage (120vac and over) equipment.

2.C. Structural Vibrations - Ceiling, walls and floors as well as all other building structures that support audiovisual equipment are to be vibration free. At an additional cost, dampening devices can be made available if needed.

2.D. Furniture - Furniture is to be removed prior to construction. If certain furniture cannot be removed, then it will need to be covered and protected sufficiently by the customer.

2.E. Ceiling Tiles - The customer is to provide extra ceiling tiles of the same pattern and patch number in any room where suspended ceiling tiles are already installed. Ceiling tiles are assumed to be either 2'x2' or 2'x4' in dimension. Other tile sizes may require additional cost for mounting solutions in the form of a change order.

2.F. Merchandise Ownership & Storage - The customer is to provide extra ceiling tiles of the same pattern and patch number in any room where suspended ceiling tiles are already installed in the event of accidental damage or installation requirement. Ceiling tiles are assumed to be either 2'x2' or 2'x4' in dimension. Other tile sizes may require additional cost for mounting solutions in the form of a change order.

2.G. Exclusion - The following items are not covered under this agreement and may be subject to additional costs:

1. Acts of Nature: Such as water damage and/or damages caused by fire
2. System abuse or misuse that is determined by Pro AV Systems.
3. User errors - Problems caused by unacceptable connection of equipment, determined by Pro AV Systems.
4. Shipping - Expedited shipping for accelerated time lines or repaired parts.
5. Accessories - Hardware, software and/or accessories not provided or sold by Pro AV Systems.

Section 3 – Existing Equipment

3.A. Documentation - When integrating and/or installing pre-existing equipment into a new system, the customer is asked to provide any documentation that may be required to complete a proper installation. This may include any available source control code or drawings.

3.B. Good Working Order - Pro AV Systems is not responsible for any damage of existing hardware/equipment. The project may be delayed, or a change order may be required if any defective material is found.

3.C. Customer Hardware and Software - Pro AV Systems will not load software of any kind on the customers' computer. Unless stated otherwise, the customer is responsible for all Internet connectivity and computer hardware. In addition, the customer is responsible for the installation of computer software and drivers, all LAN provisioning, switches, network connections, and routers. Customer is required to install all operating systems and systems integration that is needed to run the installed interactive or other hardware devices and display equipment.

3.D. Owner Furnished Equipment - If owner is providing equipment (OFE) that Pro AV Systems is required to install, configure and/or control in order to provide a functional system, Pro AV Systems reserves the right to charge additional labor hours if the OFE equipment does not perform as originally specified at the time of Proposal acceptance or according to the manufacturer specification.

Section 4 – Schedule, Payments and Business Terms

4.A. Delays and Postponements - Regarding schedule completion of the job, time is of the essence. If Pro AV Systems is delayed at any time in the process of the work by owner change orders, construction delays, delivery delays, fire, project postponement, unavoidable casualties and/or other causes beyond the control of Pro AV Systems, the completion schedule for the Proposal shall be extended at a minimum by the same amount of the time caused by the delay.



4.B. Right of Revision – Pro AV Systems has the right to revise this proposal if information was gained from site visits and other sources that were not available at the time this proposal was created.

4.C. Freight - Shipment fees are ground service only. If the customer requires expedited shipping, the additional fees will be prepaid and added to invoice(s).

4.D. Labor – Labor rates are quoted as regular rates that are non-prevailing wage rates and non-union rates. A change order can be processed for a job that requires the technician to be paid prevailing wage rates or require a union technician(s) to account for the difference in labor expenses.

4.E. Project Initiation Terms and Payments – Payment term details are described in the Proposal. A customer purchase order or signed proposal is required to begin the project. Invoices will be issued according to the terms outlined in the Proposal. For jobs requiring initial deposits, such deposit is due upon receipt of first invoice and no product will be ordered until the required deposit payment is received. All further invoice billing is due Net (30). Owner agrees that the terms outlined in these Contract Terms and Conditions take precedence over any other terms issued such as those that may be issued as part of a customer Purchase Order.

4.F. Credit Card Payments – Please note there will be a processing fee of 3.25% for payments made by credit card.

Section 5 – Warranty and Other

5.A. Warranty - Pro AV Systems warrants installed systems for a period of 90 days from date of acceptance or first beneficial use. During this time, Pro AV Systems will correct any problems at no charge. After the initial 90-day period, any additional service needs will be billed at the current service rate. To provide comprehensive coverage, Pro AV Systems offers extended warranty packages on all installed systems at an additional charge. All warranties do not cover misuse or abuse of the system components or issues caused by owner furnished equipment and interconnected systems provided by others. Interconnected systems include but are not limited to building network infrastructure, telephony (VOIP servers), fire alarms, paging, lighting, security, electrical systems and software. In the event that any of these systems are found to negatively effect the AV system performance, Pro AV Systems shall charge standard service rates on a time and materials basis (minimum 2 hours).

Extended Warranty Package

Pro Care – This warranty covers any and all defects or issues that your system could incur under normal use during the stated warranty period. This includes but is not limited to programming defects, hardware failures, workmanship, warranty processing and exchanges, and any labor required to restore the system to operational order. Hardware warranty replacements are based upon standard manufacturer warranties and replacement policies. Standard ground shipping is included. Standard response times apply.

5.B. Force Majeure – Neither Pro AV Systems or the customer will be responsible for delays that are outside the control of either parties, listed below:

1. Acts of Civil/Military Authorities
2. Floods/Fires/Epidemics or any other acts of God
3. Governmental Rules/Regulations
4. War/Riots
5. Delays in transportation
6. Shortages in raw materials/other products
7. Labor Disputes

5.C. Hours – All services will be provided during normal business hours unless otherwise specified in the proposal: Monday-Friday, 8:00am-5:00pm. National and State Holidays are excluded.

5.D. Suspension of Service Right – If the customer's payment(s) is past due, Pro AV Systems reserves the right to discontinue and/or modify any current or future service either temporarily or permanently.

5.E. Limitation of Liability – Pro AV Systems will not be responsible for any damages from delay of delivery, loss of revenue, data business or goodwill. Pro AV Systems will not be liable for any claim that arose more than one (1) year prior to the institution of suit therein.

**TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM**

DEPARTMENT/AGENCY

Board of Education

CONTACT PERSON

Thomas W. Giard III

PROJECT NAME

Security DVR Camera Installation

DEPARTMENT PRIORITY

2

1 DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)

Replace Digital Video Recorders (DVR's) and security system components that have reached the end of useful life. End of life of the systems includes drive array failures, degradation in picture clarity, etc. This particular configuration provides a useful life of 7-10 years. This project is for the complete replacement of all wiring, camera's, and dvr's. This solution is different from the original installation at the school and will allow for the remote access to the system for public safety.

2 PROJECT STATUS IF IN PROGRESS

N/A

3 LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST

N/A

4 DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)

N/A

5 GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)

N/A

6 ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)

7 COST/FUNDING SOURCE

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2023	FY2024	FY2025	FY2026	FY2027
1	Current Year Capital						
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR	-	70,000	70,000	125,000	125,000	125,000
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance						
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	-	70,000	70,000	125,000	125,000	125,000



Quote # 2001-105

Quote by Stephanie Seymour

Date: 1/27/2020

ATTN: Ed Crane

Waterford Public Schools

Expires: 2/27/2020

Town of Waterford

ecrane@waterfordschools.org

860-444-5842

Re: Quaker Hill School

Budget Estimate

Qty.	Description	Part Number	Each	Extended
I. Milestone Software Costs:				
1	XPPPLUSBL	XProtect Professional+ Base License	\$358.41	\$358.41
36	XPPPLUSDL	XProtect Professional+ Device Licenses	\$121.38	\$4,369.72
36	YXPPPLUSBL	Pro+ One Year Care Plus SUP Device Licenses	\$22.27	\$801.68
II. Camera Costs:				
1	01593-001	Axis P3245-LVE Fixed Dome Network Camera	\$637.84	\$637.84
7	01178-001	Axis M3058-PLVE 360 Cameras	\$780.91	\$5,466.37
4	0886-001	Axis P3227-LVE Outdoor - Ready IR Dome 5MP Camera	\$853.15	\$3,412.60
1	01048-001	Axis P3807-PVE 8MP Multi-sensor Network Camera	\$1,083.25	\$1,408.22
4	01116-001	Axis M3046-V Fixed Indoor Mini Dome Camera H.264/M-JEP	\$350.18	\$1,400.72
1	01055-001	Axis P1448-LE Outdoor - Ready Network Bullet - 180 views	\$900.60	\$900.60
11	01241-001	Axis M4206-LV Indoor Network Mini Dome Camera	\$445.08	\$4,895.89
7	01504-001	Axis P3717-PL Multi-Direct Network Cameras	\$1,280.20	\$8,961.41
7	01504-001	Axis T91A64 Corner Bracket	\$74.97	\$524.80
7	5507-641	Axis T91H61 Wall Mount Bracket	\$79.72	\$558.01
7	01513-001	Axis T94N01D Pendant Kit	\$84.46	\$591.23
III. Server - Full Redundancy w/ LIVE Drive.				
1	D54M48TB2RE-88	Dell Windows Server 2019 x64 1x Xeon 4208 2.1 GHz 8C CPU, 8GB RAM PERC H730 RAID Controller, 2x 240GB M.2 OS, 8x 6TB SATA R5 Archive 2x Gb NIC, 2x 750W PS Keyboard/Mouse, 2U Rack with Bezel and 2/4 Static Rails 3YR Dell basic hardware warranty - 3 year Seagate Mail in.	\$8,735.00	\$8,735.00
3	849231	Blue Cat6e Network Cable from box to camera	\$273.00	\$819.00
1	Misc.	Miscellaneous parts - conduit, connectors	\$250.00	\$250.00
IV. Labor Costs.				
1		Engineering and Project management	\$975.00	\$975.00
191		Installation and set up camera equipment, server installation	\$110.00	\$21,000.00
8	Training	Training on Milestone - train the trainer	\$1,000.00	\$1,000.00
1		Warranty on Systems	\$2,000.00	\$2,000.00
Total Cost of Equipment and Labor:				\$69,066.50

Notes:

1. Customer supplying half of the Network Drops -
2. Customer will supply remote access
3. Network Connectivity and Routing
4. Customer supplying switches and IT hardware.
5. Customer will supply indoor lift if needed.
6. Network Patch Cables.

**TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM**

DEPARTMENT/AGENCY <u>Board of Education</u>	CONTACT PERSON <u>Joseph Mancini</u>
PROJECT NAME <u>CLMS HVAC - Natural Gas Heat Pumps</u>	DEPARTMENT PRIORITY <u>3</u>

1	DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project) Clark Lane Middle School was built in 1952 with a renovate like new that was completed in 2006. The existing cooling solution relies on 300 tons of air cooled chillers, while the heat is as of 2018 are two natural gas boilers with steam perimeter heating and heat exchangers which supply hydronic heat to coils in the rooftop units paired with the original piping from 1952. The 2018 installation of Natural Gas provides the town with the opportunity to find lower cost cooling and heating solutions, which are timed with the expected end of life for the air cooled chillers. What we are proposing is to replace the chilled water system and steam heating system with new condensing gas boilers and modern high efficiency cooling units. Removing the steam to hot water heat exchangers and having new hot water perimeter heating will increase the efficiency of the heating side by 20%.																																																																																
2	PROJECT STATUS IF IN PROGRESS <u>Not currently in progress</u>																																																																																
3	LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST <u>This project stands alone</u>																																																																																
4	DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable) <u>We would expect to see a decrease in the electrical generation as well as maintenance budget once completed.</u>																																																																																
5	GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available) <u>An application has been submitted and accepted by the State of Connecticut to allow this</u>																																																																																
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Waterford Boiler Replacement

Waterford, Connecticut

M.E.P. BASIS OF DESIGN DOCUMENT

Prepared for:

Mr. Jay Minor
Waterford Schools
Director of Buildings and Grounds
15 Rope Ferry Road
Waterford, CT 06385

Date:

June 29, 2021

Prepared by:

vanZelm Heywood & Shadford, Inc
10 Talcott Notch Road
Farmington, CT 06032

van Zelm #2019141.00



MECHANICAL (6th Grade Wing)

Mechanical Demolition

Remove (2) two existing B&G hot water supply pumps and the associated piping back to isolation valves within MER. Remove power wiring back to electrical panel and make safe. (Option#1-Reuse existing pumps and add new VFD with DP speed control).

Remove HX and all associated piping, steam, condensate, traps etc. within MER including HX support and steel framework.

Remove existing duplex condensate receiver from mechanical room, remove power wiring back to electrical panel and make safe.
Remove steam controls and actuators in MER.

Mechanical New Work (6th Grade wing)

Calculations: Based on 155' l x 64' w x 2 stories=19,800 S.F. x 15 BTU/S.F.=297,000 BTU/2 boilers 148,500 BTU each. (Safety margin)=150 MBH

Provide (2) two new Secondary remote HWS&R (HWP-9&10) pumps in same location. Pumps to be sized for 20 GPM @ 40' HD. Armstrong 4380 series 0103-000.5. New pumps shall be provided with Smart technologies and internal VFD and DP sensing. (Option#1- Reuse existing pumps, provide new ABB VFD with DP sensor and control). (Existing pumps are 7-1/2 HP, 200 GPM@60' HD)

Calculations: Flow rates based on 120,000 BTU's and a 20-degree rise. $150000 \div 10000 = 15$ GPM use 20 for a bit of (Safety margin) = 20.0 GPM Pumps @ 40'HD.

Provide (2) two new commercial Gas fired condensing boilers. Each boiler shall be capable of 150,000 BTU's. Boilers shall be manufactured by Viessmann, (2) Model B2HE-150

Boilers to be furnished with (2) two condensate neutralization kits for both remote boilers.

Utilize existing expansion tank and makeup water connections to radiation system loop.

Utilize existing air separator for radiation system loop.

Provide (2) two new Primary loop boiler pumps (HWPP-4&5) sized to meet boiler flow

rate requirements. Pumps shall be 17 GPM @19'HD Armstrong Series R40-45 DI

Provide associated bridge piping with manifolds with new isolation, strainers and accessories as indicated on detail sheet. (Typical Primary Secondary piping)

Provide new 1" gas service line to new remote boilers from existing 1-1/2" gas line on roof which serves the domestic water heaters. This line may need to be increased and or paralleled. Additional review time required.

Provide new CVPC combustion air intake Concentric flues on each boiler flue up through 2nd floor electrical room and terminate through exterior wall with proper vent kit.

Provide new insulation as required on all new HWS&R piping within MER.

Provide isolation valves on all new equipment.

This system shall contain no glycol, (Verify existing) provide 5-gallon chemical feed tank with isolation valves and drain line piped to floor drain.

Provide outdoor air sensor with boiler package to allow hot water reset schedule.

Provide new Allerton controls for new boilers and pumps, BAS shall be upgraded as required.

Any asbestos not included in any calculations or pricing. (Typical for all areas)

MECHANICAL (Boiler Room MER)

Mechanical Demolition

Provide new butterfly valves on each HWS&R line entering and or leaving MER.

Isolate boiler room from existing distribution system
Recapture glycol from boiler room system piping into proper holding cylinders and dispose of as required.

Remove natural gas service line from boilers back to 10'-0 AFF. Cap and seal and lock gas valves in the closed position. Refer to plumbing section for additional work.

Remove all insulation on steam, condensate, and HWS&R lines within MER.

Remove all associated steam and condensate piping within MER.

Remove steam to hot water heat exchangers. HX-1 HX-2 are overhead that serve the AHU reheat coils.

Remove steam and condensate from heat exchangers. HX-3 HX-4 also located overhead. These serve the 7th grade Tower.

Remove associated HWS&R piping from heat exchangers including pumps and associated accessories to new isolation valve where piping leaves the MER. Remove steam supply and condensate traps and piping in its entirety.

Remove existing inline (20 H.P.) Armstrong recirculation pumps (Mounted Low) associated with HX-1&2. Remove power wiring back to electrical panel and make safe. (Sized @370 GPM@109'HD)

Remove existing inline (5.0 H.P.) Armstrong recirculation pumps overhead associated with HX-3&4. Remove power wiring back to electrical panel and make safe. (Sized @72GPM@78'HD)

Remove existing base mounted B&G 1510 (2.0 H.P.) recirculation pumps (Rear Corner under HX) associated with Grey Bell and Gossett HX. Remove power wiring back to electrical panel and make safe. (Sized @120 GPM@35'HD)

Remove and replace existing 5" air separator with a new 6" Dirt and air separator in existing 6" HWR piping in adjacent MER.

Remove existing steam to hot water heat exchanger against boiler room wall. Remove steam supply and condensate traps and piping in its entirety. Pumps are in tunnel. Pumps shall be removed, and new interconnecting piping installed. Remove power wiring back to electrical panel and make safe. New pumps will be in MER.

Remove the existing flue from both boilers in the MER up to vertical chimney. Provide Temporary cap at inside wall as well as a weatherproof seal on top to keep rain and vermin out.

Remove steam relief valve piping in its entirety.

Remove 2 Unilux Boilers and all their associated piping. Remove power wiring back to electrical panel and make safe.

Remove all condensate feed water tank, skid and pumps. Remove power wiring back to electrical panel and make safe. Remove steam supply and condensate traps and piping in its entirety.

Remove existing steam condensate receivers and associated piping. Remove power wiring back to electrical panel and make safe.

Remove cold water makeup lines to steam system.

Remove combustion air ductwork as new boilers will be direct vent.

Remove any existing fuel oil piping from MER in its entirety.

Remove the three H-20 B&G pumps in tunnel and provide spool pieces in place of pumps.

Protect all floor drains during all construction phases. Cover drains as necessary.

Mechanical MER New Work

Provide (3) three new 6" high concrete pads in new locations for new Gas fired condensing boilers. Existing pads can be utilized in new layout, infill required.

Provide (3) three new commercial Gas fired condensing boilers. Each boiler shall be capable of 4,000 MBH. Boilers shall be manufactured by Viessmann, (3) Viessmann Vitocrossal 300 CA3B-4.0 4,000 MBH each. Boilers shall be provided with (3) Three air intake kits to achieve sealed combustion. Boilers to be furnished with (3) three condensate neutralization kits for all 3 boilers.

New flues and intakes shall be installed within existing flue with proper terminations on top of flue. Provide proper support and installation.

New boiler plant shall utilize primary/secondary piping configuration. Each boiler shall have its own inline primary pump overhead dedicated to that boiler. Primary pumps (HWPP-1,2, &3) shall meet flow rate as required by boiler manufacturer. Pumps shall be 385 GPM @25'HD. Armstrong series 4380 0408-005.0

Provide new UH-1 in MER to supplement heating requirement of new boiler room. UH-1 fan shall be wired through return line mounted aqua-stat. Aqua-stat shall be wired to wall mounted R.A thermostat. Provide new piping with new isolation as required.

Provide new secondary hot water supply pumps (HWP-1&2) serving 6" main within boiler room. Pumps shall Armstrong Series 4300 0308-020.0 located in adjacent room and shall operate as a lead lag configuration. These pumps shall be provided with sensor less integrated intelligent Variable speed control. 370 GPM @109'

Provide new secondary inline pumps (HWP-3&4) serving 7th Grade Tower loop. Pumps shall be Armstrong series 4380 1205-003.0 rated at 72 GPM @78' HD

Provide new secondary inline pumps (HWP-5&6) serving admin loop. Pumps shall be Armstrong Series 4380 0205-002.0 rated at 120 GPM @35'. These pumps shall be provided with sensor less integrated intelligent Variable speed control.

Provide new secondary inline pumps (HWP-7&8) serving 2-1/2" loop. Pumps shall be Armstrong series 4380 1503-001.5 rated at 70 GPM @40' HD (Pump in tunnel, (3) B&G H-20, pumps to be removed w/spool piece)
All pumps shall be provided with factory fused disconnect, voltages to be verified.

Provide new secondary inline pumps (HWP-9&10) serving remote 6th grade upper and lower level loops. Pumps shall be Armstrong series 4380 0103-000.5 rated at 20 GPM @40' HD. All pumps shall be provided with factory fused disconnect, voltages to be verified.

Provide new secondary inline pumps (HWP-11&12) serving new 2" 8th grade West and 7th grade East loops. Pumps shall be Armstrong series 4380 XXXX rated at 40 GPM @40' HD. All pumps shall be provided with factory fused disconnect, voltages to be verified.

Prior to final connection and operation, all new boiler room piping shall be flushed before equipment is started. This is meant to clear large rust and settlement from system without sacrificing new equipment. Provide inline Spiro-Vent dirt and air separator with drain line piped to floor drain.

Provide an additional 40-gallon expansion tank #EX-XX or equal. This tank will compensate existing to remain as added piping will require additional expansion capabilities.

Provide new 5 Gallon shot feeder and piping from hi and lo side of HWP-1.

Classroom Area Systems

Calculations: (Grade 8) 7,121 S.F.(West) and 7,901 (East) for a total S.F of 15,022 S.F. x 20 BTU/S.F.=300,500 BTU/hr. $300,500/10,000=30.5$ GPM. (Safety margin) =40 GPM total loop.

Provide 3-tier FTR 3 tiers of Sterling C3/4-435 within existing Convectors with 3/4" HWS&R piping from overhead. Radiation loop shall be reverse return and each classroom will have corner pipe chases on each end to hide the insulated piping. (Option here for exposed piping painted to match walls). New control valves, balance valves and strainers and isolation valves accessories shall be provided within one of the classroom convectors. A baffle shall be constructed and installed within each Convector to ensure the air passes over the fins inside the cabinet.

Building Automation System

Temperature control and boiler management functions will be provided through the boiler manufactures controller and a Zone Control Panel-Circulator. Contractor to provide all wiring and cables required. Boiler alarming shall be provided for boilers as well as pumps via text or e-mail messaging. Controller shall be furnished to provide outdoor temperature reset schedules for

boiler loop supply loop temperatures.

Chiller Demolition:

Remove Existing power back to disconnect and make safe.
Valve off CHWS&R lines at each chiller.
Drain water and remove from site (Glycol)
Remove (2) existing 150 Ton Aeon chillers from existing pads.

Chiller New Work:

(Option 1) Provide (2) two new Daikin AGZ150E air cooled scroll compressor chillers with internal pumping package. Chillers shall be designed for 40% Glycol operation.

Provide new 400 MOCP Amp power to single point power connection.

Provide Controls for new exterior chillers tied into existing BAS.

(Option 2) Provide (2) two new Daikin AWW014B air cooled screw compressor chillers with remote chilled water pumps located in Boiler room.

Provide new 350 MOCP Amp power to single point power connection.

Provide (2) lead lag/chilled water pumps located in boiler room.

ELECTRICAL

Electrical Demolition

The electrical feeders serving equipment to be removed back to the Boiler Room electrical panel and made safe. This shall include the existing (2) two boilers, misc. wall switches and all the zone circulators located in Boiler Room.

The existing lighting in the Boiler Room is to remain until mechanical work is approximately 90% complete and then be replaced. This will allow proper placement of new lighting in conjunction with new equipment locations.

All miscellaneous electrical switches from old systems (Pumps, disconnects, 4x4 electrical boxes, etc.) shall be removed back to the Boiler Room electrical panel and made safe.

The existing fire alarm system shall remain active and functional during demolition. Local area smoke heat/smoke detectors shall be covered during construction as required to minimize nuisance alarms during construction.

Electrical New Work

Provide new individual electrical feeders to each new boiler and associated primary pumps. Each boiler shall have a local motor-rated toggle safety switch.

Provide new 120V- 208V electrical feeders to each new zone heating pumps with local disconnect switches mounted on Unistrut rack at each motor. Coordinate pump locations with all other trades. There are a total of 10 pumps not including the chiller pumps.

Provide (6) six 120V GFI duplex outlets for service convenience power. Coordinate outlet locations with all other trades.

Provide new LED 4'-0" strip chain hung light fixtures coordinated with new Boiler Room mechanical equipment layout. Coordinate with all other trades, provide new wiring and conduit and switching circuitry to new lighting. Switching to be provided at all doorways.

Provide two boiler emergency shut-off switches wired to each boiler operating controls at outside of Boiler Room and the interior door as well.

Provide CO2 sensors in Boiler Room and adjacent building corridor tied into fire alarm panel.

Provide electronic solenoid shut off valve for new gas line serving new boilers.

The existing Boiler Room electrical panel enclosure and feeder from the building electrical distribution system will be reused.

Provide new conduit and wiring as required from the Boiler Room electrical panel to devices as required.

PLUMBING/FIRE PROTECTION

Plumbing Demolition

Provide demolition of existing cold-water makeup. Provide valve and caps for new work.
Provide demolition of existing backflow preventer. Cold water to be cut back and made safe.

Plumbing New Work

New plumbing shall include new boiler make-up water with associated backflow preventer.
Limited piping for existing electric domestic water heater. Provide proper support for piping serving DWH.
Provide new tie-ins for future domestic hot water heater with ball valves and caps, this includes cold and hot water taps.
Provide new gas lines from existing capped riser to each new boiler with proper NFPA required gas train accessories.
Provide alterations to existing gas lines serving HVAC equipment.
Provide piping from boiler neutralization drains to area floor drains.

Fire Protection Demolition

The existing Boiler Room is protected with a wet pipe sprinkler system. New layout will require new piping and head layout in anticipation of new work below.

Fire Alarm New Work

Existing fire alarm system manufactured by ~~XXXXXX~~ Provide protection of Fire Alarm devices during construction.
At the end of construction, new devices shall be installed and tested with the local authorities witnessing installation.

ARCHITECTURAL

Classroom Area:

Provide new millwork in each classroom to allow for new Fin Tube Radiation to be installed in existing classroom convectors. Modified convectors will require insulated 1" copper HWS&R lines to run wall to wall within existing bookcases. Corner soffit's on each end will hide the distribution piping as required. Control valves and accessories shall be within the existing convectors.

Provide core bore and patches in decking and walls to allow new installation inside classrooms. Provide interior paint to match existing.

Boiler room Area:

Remove existing air louvers and patch walls as required. Provide wall patches to cover holes left exposed from demolition. Use Concrete mix or cement patching compound to cover and smooth interior walls. Exterior wall patches to match existing. Provide two coats of Con-Flex block filler or similar concrete wall application product. Follow manufacturers recommendations for wall preparations. Color to be selected by Owner.

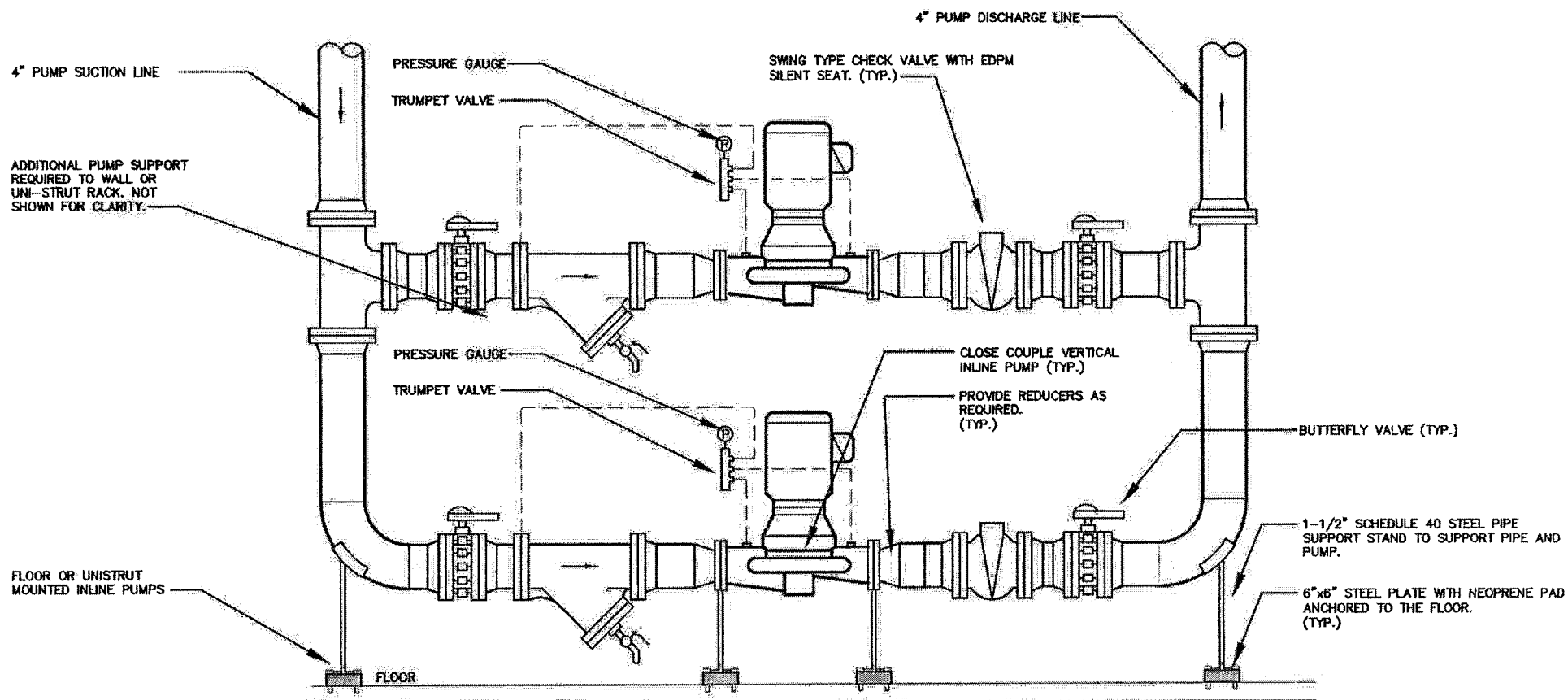
Provide self-leveling floor skim coat like over entire Boiler Room floor. Provide floor sealing epoxy coating equal to Armorseal Tread-plex or similar material over entire Boiler Room floor. Follow manufacturers recommendations for subfloor preparations. Color to be selected by Owner.

Asbestos/Lead

It is assumed that there is no asbestos or lead in the Boiler Room. Remediation is not included in this scope of work.

--- End of M.E.P. Basis of Design Document ---

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2 VERTICAL IN-LINE PUMP PIPING DETAIL
SCALE: NOT TO SCALE

H. H. S. MECHANICAL CONTRACTORS, INC.

80 COLONIAL ROAD, MANCHESTER, CT 06042
TEL. (860) 643-3939 FAX (860) 643-3977

July 7, 2021

Van Zelm Heywood & Shadford, Inc
10 Talcott Notch Road
Farmington, CT 06032-1800

Attention: Robert Ayer

RE: Clark Lane Middle School Boiler Replacement
Waterford, CT
Project #: 2019141.00

Dear Mr. Ayer:

We are pleased to provide a budget proposal for the HVAC work for the above-mentioned project. Our price is based on M.E.P. Basis of Design Documents by van Zelm Heywood & Shadford, Inc dated 6/29/21.

HVAC budget proposal price: \$2,325,000.00

We include Prevailing Wage Rates and our Certificate of Liability Insurance based on our current limits.

We exclude the following:

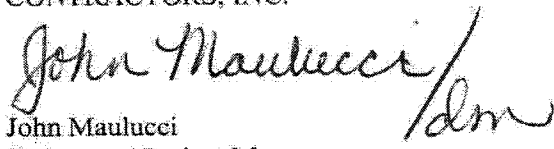
- | | |
|---|--|
| 1. Bond Cost | 6. Roofing; including roof penetrations & flashing |
| 2. Painting | 7. Connecticut Sales Tax |
| 3. Premium time | 8. Fire Protection work |
| 4. Temporary facilities | 9. Demolition/removal of tunnel piping |
| 5. Electrical work/starters/disconnects | 10. Abatement of hazardous materials |

Payment Terms: Net 30 days.

Thank you for this opportunity. If you have any questions, please feel free to contact this office.

Respectfully,

H.H.S. MECHANICAL
CONTRACTORS, INC.


John Maulucci
Estimator / Project Manager

Affirmative Action / Equal Opportunity Employer and a SBE
INDUSTRIAL • MECHANICAL • FIRE PROTECTION • PIPING • CONTRACTORS
Major Contractor 900446 - Plumbing 281774 - Heating/Air Conditioning 303163 - Fire Protection F10535



HHSMECH-02

LFORMAN

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

3/10/2021

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER People's United Insurance Agency, Inc. One Financial Plaza Hartford, CT 06103	CONTACT NAME: Diane Donofrio PHONE (A/C, No, Ext): (860) 426-6140 FAX (A/C, No): (860) 426-6140 E-MAIL ADDRESS: Diane.Donofrio@AssuredPartners.com	
	INSURER(S) AFFORDING COVERAGE	
INSURED H.H.S. Mechanical Contractors, Inc. 80 Colonial Road Manchester, CT 06042	INSURER A: Evanston Insurance Co NAIC # 35378	
	INSURER B: Charter Oak Fire Insurance Company 25615	
	INSURER C: Admiral Insurance 24856	
	INSURER D: Travelers Indemnity Co. of America 25666	
	INSURER E: Crum & Forster Specialty 44520	
INSURER F:		

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL SUBR INSD WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	☒ COMMERCIAL GENERAL LIABILITY ☐ CLAIMS-MADE ☒ OCCUR ☒ X, C, U Not Excluded GEN'L AGGREGATE LIMIT APPLIES PER: ☐ POLICY ☒ PROJECT ☐ LOC OTHER:		MKLVPBC000855	3/10/2021	3/10/2022	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COM/OP AGG \$ 2,000,000 POL AGGREGATE \$ 5,000,000
B	AUTOMOBILE LIABILITY ☒ ANY AUTO ☐ OWNED AUTOS ONLY ☐ SCHEDULED AUTOS ☐ HIRED AUTOS ONLY ☐ NON-OWNED AUTOS ONLY ☒ CA9946 Included		810-0S052363-21-26-G	3/10/2021	3/10/2022	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
C	☒ UMBRELLA LIAB ☒ OCCUR ☒ EXCESS LIAB ☐ CLAIMS-MADE DED ☒ RETENTIONS \$ 0		BEX09603095-03	3/10/2021	3/10/2022	EACH OCCURRENCE \$ 5,000,000 AGGREGATE \$ 5,000,000 \$
D	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below.	Y/N ☒ N ☐ N/A	UB-0S052443-21-26-G	3/10/2021	3/10/2022	☒ PER STATUTE ☐ OTHER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
E	Prof/Poli Liability		PKC109611	3/10/2021	3/10/2022	See Below

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Professional Liability - \$2,000,000 Each Wrongful Act

Pollution Liability - \$1,000,000 Each Pollution Condition

Deductible: \$10,000

Landmark Excess Liability
SEE ATTACHED ACORD 101

CERTIFICATE HOLDER

CANCELLATION

SAMPLE CERTIFICATE

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

People's United Insurance Agency, Inc.



AGENCY CUSTOMER ID: HHSMECH-02

LFORMAN

LOC #: 0

ADDITIONAL REMARKS SCHEDULE

Page 1 of 1

AGENCY People's United Insurance Agency, Inc.		NAMED INSURED H.H.S. Mechanical Contractors, Inc. 80 Colonial Road Manchester, CT 06042	
POLICY NUMBER SEE PAGE 1			
CARRIER SEE PAGE 1	NAIC CODE SEE P 1	EFFECTIVE DATE: SEE PAGE 1	

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,
FORM NUMBER: ACORD 25 FORM TITLE: Certificate of Liability Insurance

Description of Operations/Locations/Vehicles:

Policy # LHA093354

Eff. 3/10/2021 to 3/10/2022

Limit: \$5,000,000

Admiral Excess Policy is excess over General Liability, Automobile and Employer Liability
Landmark Excess Policy is excess over Admiral Policy

Note: Excess Policies excludes Professional and Pollution Liability

SAMPLE CERTIFICATE EVIDENCING INSURANCE **For a formal certificate, please contact People's United Insurance Agency**

H. H. S. MECHANICAL CONTRACTORS, INC.

80 COLONIAL ROAD, MANCHESTER, CT 06042
TEL. (860) 643-3939 FAX (860) 643-3977

July 7, 2021

Van Zelm Heywood & Shadford, Inc
10 Talcott Notch Road
Farmington, CT 06032-1800

Attention: Robert Ayer

RE: Clark Lane Middle School Boiler Replacement
Waterford, CT
Project #: 2019141.00

Dear Mr. Ayer:

We are pleased to provide a budget proposal for the HVAC work for the above-mentioned project. Our price is based on M.E.P. Basis of Design Documents by van Zelm Heywood & Shadford, Inc dated 6/29/21.

HVAC budget proposal price: \$2,325,000.00

We include Prevailing Wage Rates and our Certificate of Liability Insurance based on our current limits.

We exclude the following:

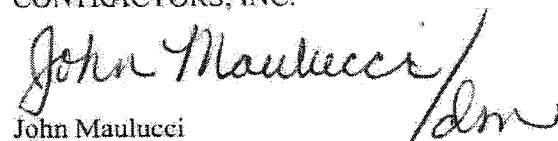
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|---|--|
| 1. Bond Cost | 6. Roofing; including roof penetrations & flashing |
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| 4. Temporary facilities | 9. Demolition/removal of tunnel piping |
| 5. Electrical work/starters/disconnects | 10. Abatement of hazardous materials |

Payment Terms: Net 30 days.

Thank you for this opportunity. If you have any questions, please feel free to contact this office.

Respectfully,

H.H.S. MECHANICAL
CONTRACTORS, INC.


John Maulucci
Estimator / Project Manager

Affirmative Action / Equal Opportunity Employer and a SBE
INDUSTRIAL • MECHANICAL • FIRE PROTECTION • PIPING • CONTRACTORS
Major Contractor 900446 - Plumbing 281774 - Heating/Air Conditioning 303163 - Fire Protection F10535



HHSMECH-02

LFORMAN

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

3/10/2021

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PRODUCER People's United Insurance Agency, Inc. One Financial Plaza Hartford, CT 06103	CONTACT NAME: Diane Donofrio		
	PHONE (A/C, No, Ext): (860) 426-6140	FAX (A/C, No): (860) 426-6140	
	E-MAIL ADDRESS: Diane.Donofrio@AssuredPartners.com		
INSURED H.H.S. Mechanical Contractors, Inc. 80 Colonial Road Manchester, CT 06042	INSURER(S) AFFORDING COVERAGE		NAIC #
	INSURER A: Evanston Insurance Co		35378
	INSURER B: Charter Oak Fire Insurance Company		25615
	INSURER C: Admiral Insurance		24856
	INSURER D: Travelers Indemnity Co. of America		25666
	INSURER E: Crum & Forster Specialty		44520
	INSURER F:		

COVERAGES	CERTIFICATE NUMBER:	REVISION NUMBER:
THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.		

INSR LTR	TYPE OF INSURANCE	ADDL SUBR INSD WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	☒ COMMERCIAL GENERAL LIABILITY ☐ CLAIMS-MADE ☒ OCCUR ☒ X, C, U Not Excluded GEN'L AGGREGATE LIMIT APPLIES PER: ☐ POLICY ☒ PROJECT ☐ LOC OTHER:		MKLV1PBC000855	3/10/2021	3/10/2022	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 POL AGGREGATE \$ 5,000,000
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C	☐ UMBRELLA LIAB ☒ OCCUR ☒ EXCESS LIAB ☐ CLAIMS-MADE DED ☒ RETENTION \$ 0		BEX09603095-03	3/10/2021	3/10/2022	EACH OCCURRENCE \$ 5,000,000 AGGREGATE \$ 5,000,000 \$
D	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below Y/N ☒ N/A		UB-0S052443-21-26-G	3/10/2021	3/10/2022	☒ PER STATUTE ☐ OTHER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
E	Prof/Poli Liability		PKC109611	3/10/2021	3/10/2022	See Below

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

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Pollution Liability - \$1,000,000 Each Pollution Condition

Deductible: \$10,000

Landmark Excess Liability
SEE ATTACHED ACORD 101

CERTIFICATE HOLDER	CANCELLATION
SAMPLE CERTIFICATE	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.
	AUTHORIZED REPRESENTATIVE <i>People's United Insurance Agency, Inc.</i>



AGENCY CUSTOMER ID: HHSMECH-02

LFORMAN

LOC #: 0

ADDITIONAL REMARKS SCHEDULE

Page 1 of 1

AGENCY People's United Insurance Agency, Inc.		NAMED INSURED H.H.S. Mechanical Contractors, Inc. 80 Colonial Road Manchester, CT 06042	
POLICY NUMBER SEE PAGE 1			
CARRIER SEE PAGE 1	NAIC CODE SEE P 1	EFFECTIVE DATE: SEE PAGE 1	

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,

FORM NUMBER: ACORD 25 FORM TITLE: Certificate of Liability Insurance

Description of Operations/Locations/Vehicles:

Policy # LHA093354

Eff. 3/10/2021 to 3/10/2022

Limit: \$5,000,000

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Landmark Excess Policy is excess over Admiral Policy

Note: Excess Policies excludes Professional and Pollution Liability

SAMPLE CERTIFICATE EVIDENCING INSURANCE **For a formal certificate, please contact People's United Insurance Agency**

**TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM**

DEPARTMENT/AGENCY <u>Board of Education</u>	CONTACT PERSON <u>Joseph Mancini</u>
PROJECT NAME <u>Field House Flooring / Bleacher upgrade</u>	DEPARTMENT PRIORITY <u>4</u>

1	DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project) This is the initial request to replace the existing tara-flex floor in the high school field house. The existing taraflex floor was put into service in 1996. TaraFlex is a urethane based gym sheet system. The existing system has reached the end of life and we are routinely repairing the flooring. Over the past year we've seen considerably more blisters appearing and seams failing. There have been improvements made to this product over the last 22 years and Waterford should expect to see 25 years from the replacement flooring. This project would also work on addressing the updating of the bleachers to an easier solution for setups and breakdowns.																																																																													
2	PROJECT STATUS IF IN PROGRESS Not currently in progress																																																																													
3	LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST This project stands alone																																																																													
4	DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable) N/A																																																																													
5	GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available) None available																																																																													
6	ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below) 																																																																													
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PROPOSAL

Page: 1

11/16/2018 2:51:49PM

ORDER DATE: 11/13/2018

ORDER #: 0028503

CUSTOMER NUMBER: WPS5801

THOR PERFORMANCE PRODUCTS, INC.
2640 Route 9w
Cornwall, NY 12518
(800) 348-5815

PLEASE SIGN, DATE AND RETURN TO INITIATE ORDER.
Please issue P.O. & payment to Thor Performance Products.

I _____, as
authorized representative of the sold to facility, have
reviewed this proposal and accept it. I agree to make all
payments in accordance with the payment schedule outlined
below. DATED _____.

SOLD TO:

Waterford Public Schools
15 Rope Ferry Rd.
Jay Miner 860-625-5532
Waterford, CT 06385

CONFIRM TO:

Jay Miner 860-625-5532

jminer@waterfordschools.org

SHIP TO:

Waterford High School
20 Rope Ferry Rd.
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CUSTOMER P.O.	SHIP VIA	TERMS	PRICE GOOD THROUGH
	CHR	SEE PAYMENT SCHEDULE BELOW	12/13/2018

Item Code	Unit	Qty	Price	Amount
-----------	------	-----	-------	--------

WATERFORD PUBLIC SCHOOLS

WATERFORD HIGH SCHOOL FIELD HOUSE

TARA-SPORTMDT	SF	4,688.75	6.18	28,976.48
Taraflex Sport M Plus DRY-TEX Wood 7.35mm Full Roll 86'-6" x 4'-11" 426.25 sq ft Half Roll Available				

WOOD FOR CENTER VOLLEYBALL COURT

TARA-WR	ROLL	4.00	159.41	637.64
Taraflex Weld Rod CR-50 5mm 328'				

WOOD COLOR

TARA-SPORTMDTSC	SF	8,274.75	6.18	51,137.96
Taraflex Sport M Plus DRY-TEX Solid Color 7.35mm Full Roll 67'-3" x 4'-11" 330.98 sq ft Half Roll Available				

BORDER COLOR

Continued



PROPOSAL

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Item Code	Unit	Qty	Price	Amount
TARA-WR Taraflex Weld Rod CR-50 5mm 328'	ROLL	5.00	159.41	797.05
WELD ROD SOLID COLOR				
TARA-SURFACES Taraflex Surface Solid Color 2.1mm Full Roll 98'-5" x 4'-11" 484.36 sqft Half Roll 49'-2.5" x 4'-11" 242.18sqft 15 Colors	SF	5,564.62	5.12	28,490.85
BLEACHER BLOCK WEAR LAYER FOR UNDER BLEACHERS				
TARA-WR Taraflex Weld Rod CR-50 5mm 328'	ROLL	3.00	159.41	478.23
TARA-BB Taraflex BleacherBlok Full Rolls Only	SF	5,433.68	6.03	32,765.09
ADHESIVE, PATCH, BASE, TRANSITIONS				
TARA-GERPUR Taraflex Gerpur for Dry-Tex 2.5 Gallons covers 300sqft	EACH	62.00	272.97	16,924.14

Continued



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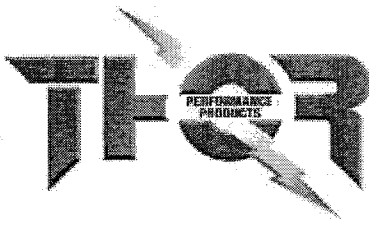
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Item Code	Unit	Qty	Price	Amount
NP-MAPEI-G21 G21 2-PART URETHANE ADHESIVE 2 GALLON UNIT COVERAGE RUBBER TO CONCRETE - 250-370 SF PER PAIL RUBBER TO RUBBER - 150 SF PER PAIL BLEACHERBLOK TO SURFACE	EACH	38.00	165.00	6,270.00
MISC-FLOOR MAPEI G-15 ADHESIVE BLEACHERBLOK TO CONCRETE	EACH	38.00	165.00	6,270.00
TARA-GERPATCH Gerflor Gerpatch Patching Compound Comes in 10 lb bags, sold 4 bags to a box. Average Coverage of 100 SF per bag	EACH	188.00	24.98	4,696.24
Non-Returnable Item				
J-1/8-RUB-4B Johnsonite 1/8" Rubber Base 4" High Black 120' Carton	LF	720.00	3.00	2,160.00
NP-CTA-XX-H 1/4" to 1/8" Material Black	LF	48.00	5.25	252.00

LABOR

Continued



PROPOSAL

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Item Code	Unit	Qty	Price	Amount
CFS-INS-MTO	EACH	16,552.00	1.25	20,690.00
Tear Out - Includes tear out of existing floor by machine. Does not include any major concrete repair or work. Anything beyond this is not included and considered additional work above and beyond what is priced herein. Additional work will be charged and due at the time of install. Installation will not proceed until payment is made. Based on Prevailing Wage.				
CFS-INS-GERPATC	EACH	188.00	50.00	9,400.00
Taraflex Gerpatch Installation Price Per Bag				
MISC-FLOOR	EACH	1.00	6,440.00	6,440.00
LABOR FOR REMOVING AND REINSTALLING BLEACHERS				
CFS-INS-GL	EACH	3.00	2,750.00	8,250.00
Games Lines Installation-NON UNION Including: 1-Basketball 1-Volleyball INCLUDES 2 COLORS. Each additional color is an extra \$500.00				
(1) VOLLEYBALL SET - WHITE (2) CROSS COURT SETS - YELLOW (1) FULL COURT BB - YELLOW (2) PICKLEBALL - TBD				
CFS-INS-GL	EACH	1.00	5,500.00	5,500.00

Continued



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Item Code	Unit	Qty	Price	Amount
-----------	------	-----	-------	--------

Games Lines Installation-NON UNION

(4) 2" LINES FORMING 3 TRACK LANES

SPRING LANES RUN DOWN ONE LONG SIDE OF GYM

COLOR - WHITE

CFS-INS-LOGO	EACH	1.00	12,978.60	12,978.60
INCLUDES ALL MATERIALS AND LABOR FOR ALL LOGOS -				

(2) "W" WITH SPEAR

(2) "WATERFORD"

(1) CENTER COURT "LANCERS"

CFS-INS-SWPV	EACH	18,528.12	2.85	52,805.14
Seam Welded Performance Vinyl Installation				
PREVAILING WAGE				
Price per Sqft.				

MATERIAL EACH

Material quantity include cutting loss based on industry guidelines, material takeoff techniques and material increment requirements. Extra material is to be used for attic stock. THOR Performance Products is not responsible for excess materials due to changes in the plans or layout after order is placed, changes made without notification or for changes made during installation. All returned materials are subject to freight charges and restocking fees at the expense of the purchaser.

FREIGHT EACH

Continued



PROPOSAL

Page: 6

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Freight: INSIDE DELIVERY IS INCLUDED

UNLOADING BY INSTALLER, THOR IS NOT INCLUDED.

ANY ADDITIONAL FREIGHT CHARGES THAT ARE NOT PREAUTHORIZED WILL BE BILLED DIRECTLY TO THE CUSTOMER

JNLOAD EACH

1. Unless specifically stated otherwise on the signed proposal: INSIDE DELIVERY IS INCLUDED
2. Rolled products will require hand trucks and Tiled products will require a Pallet Jack or Fork Lift for unloading.
3. It is recommended that at least 3 people be available for unloading. Larger orders will require more labor.
4. Standard Freight Charges include Curbside Delivery only.
PLEASE ADVISE IF ANY OF THE ADDITIONAL SERVICES LISTED BELLOW APPLIES TO YOUR DELIVERY, THESE ARE NOT INCLUDED:

**LIFT GATE REQUIRED

**INSIDE DELIVERY NECESSARY

**NO ACCESS TO FORK LIFTS OR HAND TRUCKS

**TIME RESTRICTIONS

**NO LOADING DOCK

**UNLOADING

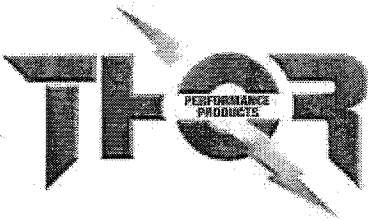
These must be arranged PRIOR to shipment, preferably at the time this order is placed.

5. Any changes to delivery date or services must be done NO LATER THAN 72 HOURS of given ship date or additional storage/redelivery fees will be incurred.

6. When truck is unloaded please inspect product for any damage.
ANY & ALL Damage MUST be noted on Bill Of Lading

7. Restocking fee on any cancelled or returned orders.

Continued



PROPOSAL

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Item Code	Unit	Qty	Price	Amount
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PAYMENT OPTION EACH

To place the order:

Please sign/date all pages of the proposal and fax/email to:

845-534-4111 (fax) or Sabrena@ThorPP.com

*** SIGN/DATE EACH PAGE IN BOX IN UPPER RIGHT CORNER OF PROPOSAL

*** ORDERS ARE NOT VALID UNELSS ALL PAGES ARE COMPLETED.

Payment Methods:

UPS/FedEx

THOR Performance Products/ 79 Pleasant Hill Road/ Mountainville NY 10953

*** REFERENCE THOR'S ORDER # ON CHECKS

Located in the upper right corner of each proposal page.

Wire Transfer

Empire State Bank/ 68 North Plank Road/ Newburgh NY 12550

P: 845-561-0003

Routing #: 021913862

Account #: 20 000 9095

We also accept Visa, Mastercard or American Express.

Completed Credit Card Authorization Form required.

ORDERS ARE NOT PROCESSED UNTIL SIGNED PROPOSAL and PAYMENT ARE RECEIVED. PLEASE EXPEDITE
PAYMENT FOR RUSH ORDERS.

PAYMENT-SCH EACH

Continued



PROPOSAL

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PAYMENT TERMS ARE AS FOLLOWS:

50% DEPOSIT DUE WITH ORDER: \$ 149,867.71

DUE 2 WEEKS PRIOR TO SHIPPING: \$119,894.17

DUE UPON ARRIVAL AT THE JOBSITE: \$ 29,973.54

(A Visa/Mastercard is required to secure the final payment)

INCLUDE YOUR ORDER # ON PAYMENT METHOD

YOUR ORDER # IS IN UPPER RIGHT CORNER OF PROPOSAL

CONTACT-CC EACH

For any questions/changes to the proposal,

CONTACT: Cat Chalpin 800-348-5815, Ext. 223

Email: Catherine@ThorPP.com

Less Deposit:	0.00
Less Payment:	0.00
Order Balance:	299,735.42

Net Order:	295,919.42
Freight:	3,816.00
Sales Tax:	0.00
Order Total:	299,735.42

**TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM**

DEPARTMENT/AGENCY

Board of Education

CONTACT PERSON

Joseph Mancini

PROJECT NAME

Turf Field and Track Rehabilitation

DEPARTMENT PRIORITY

5

1 DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)

The average life expectancy of a turf field is 8 - 10 years. Turf field has some advantages in that the fields are available for a higher volume of use and hypothetically are available year round with significantly less maintenance and the added benefit of reduced impact injuries. The expected cost of this rehabilitation is around \$800,000 and would take place in roughly 5 years, we are asking that there be a yearly appropriation to fund this future effort. The costs for rehabilitation is dependent on the several factors, one being the uncertainty of the materials being used, there has been a recent movement away from the crumb rubber used as the base. This field was first put into use in the fall of 2012.

2 PROJECT STATUS IF IN PROGRESS

Not currently in progress

3 LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST

This project stands alone

4 DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)

5 GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)

None available

6 ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)

7 COST/FUNDING SOURCE

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2023	FY2024	FY2025	FY2026	FY2027
1	Current Year Capital						
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR	0	125,000	125,000	125,000	125,000	125,000
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance						
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	0	125,000	125,000	125,000	125,000	125,000

**TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM**

DEPARTMENT/AGENCY Board of Education	CONTACT PERSON Thomas W. Giard III
PROJECT NAME IT - BOE Munis Implementation	DEPARTMENT PRIORITY 6

1	DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)																																																																						
	The Board of Education is seeking to replace their existing Enterprise Resource Planning Software with Munis. Munis has recently been implemented on the town side, the existing system is being phased out by the vendor.																																																																						
2	PROJECT STATUS IF IN PROGRESS																																																																						
	N/A																																																																						
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**TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM**

DEPARTMENT/AGENCY

Board of Education

CONTACT PERSON

Thomas W. Giard III

PROJECT NAME

WHS Tennis Court

DEPARTMENT PRIORITY

0

1 DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)

The Tennis courts at Waterford High School are nearing the end of their useful life. The Board of Education has been providing yearly band-aids to the courts. The proposal is for the replacement of existing footprint with a post tension concrete solution with a 25 year warranty. It is expected that one full size tennis court would be replaced with two pickle ball courts.

2 PROJECT STATUS IF IN PROGRESS

N/A

3 LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST

N/A

4 DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)

N/A

5 GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)

N/A

6 ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)

7 COST/FUNDING SOURCE

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2023	FY2024	FY2025	FY2026	FY2027
1	Current Year Capital						
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR			350,000	355,000		
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance						
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	0	0	350000	355000	-	-

BID DOCUMENTS
TENNIS COURT RECONSTRUCTION
WATERFORD HIGH SCHOOL

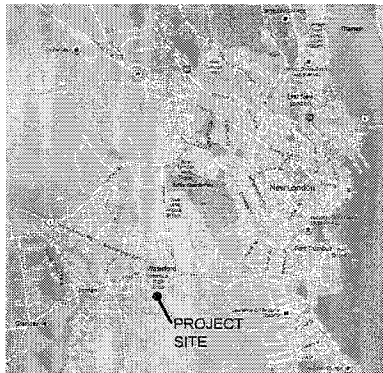
15 ROPE FERRY ROAD
WATERFORD, CONNECTICUT

June 28, 2021

LOCATION MAP

LIST OF DRAWINGS

-	Cover Sheet
L1.0	Overall Plan
L1.1	Demolition Plan
L1.2	Layout Plan
L1.3	Grading Plan
L1.4	Ramp Plan
L1.5	Site Details

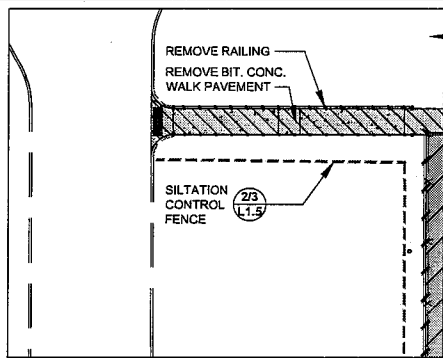


PREPARED BY

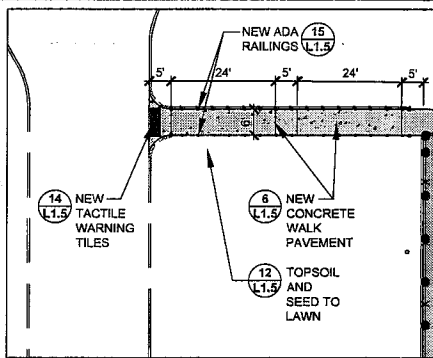


LINDEN LANDSCAPE ARCHITECTS LLC
Wethersfield, CT (860) 899-9556
office@lindenlandscapearchitects.com

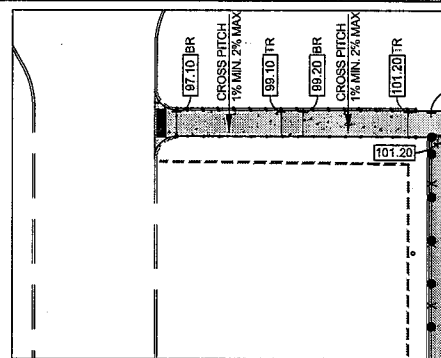




DEMOLITION - RAMP AREA
SCALE: 1" = 10'



LAYOUT - RAMP AREA
SCALE: 1" = 10'



GRADING - RAMP AREA
SCALE: 1" = 10'



LINDEN LANDSCAPE
ARCHITECTS LLC
32 Parkside Drive
Waterford, CT 06185-1137
860-966-3334

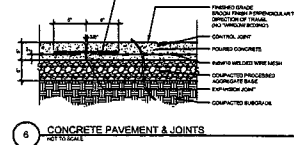
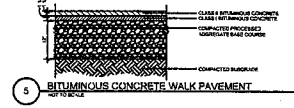
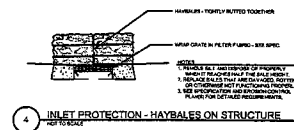
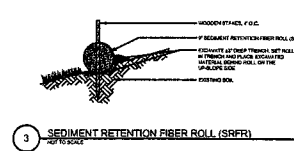
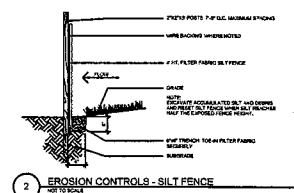
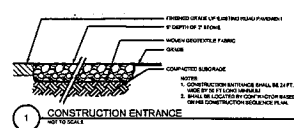
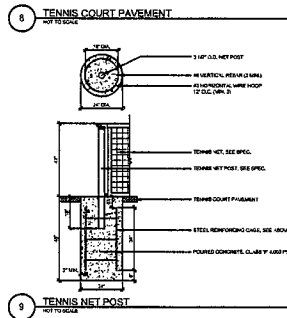
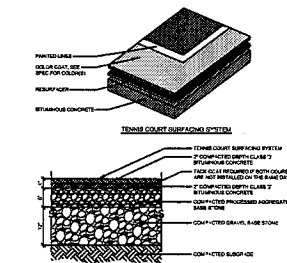
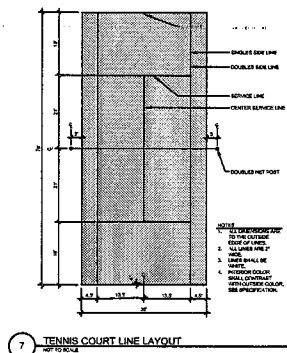
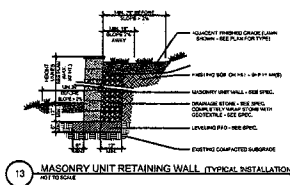
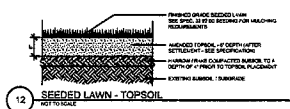
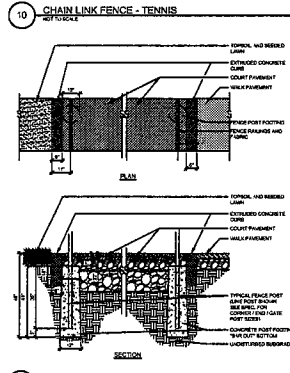
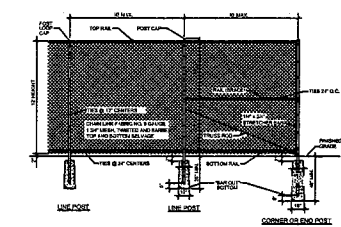
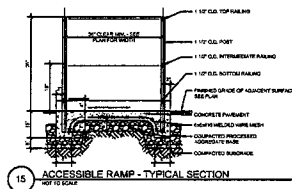
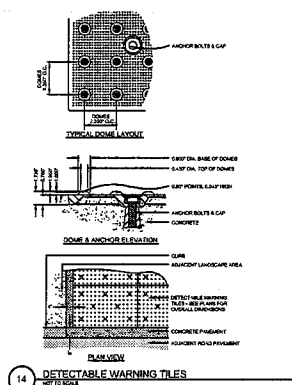
TENNIS COURT RECONSTRUCTION
WATERFORD HIGH SCHOOL
15 ROPE FERRY ROAD
WATERFORD, CONNECTICUT

DATE	REVISION

DATE: JUNE 23, 2011
SCALE: 1" = 10'
DRAWN BY: T.A.
CHECKED BY: DPH
ALTERNATE:
RAMP PLANS

L1.4

\\slac\projects\2011\Waterford High School\TennisCourt\plan\TennisCourt.dwg



LINDEN LANDSCAPE ARCHITECTS, LLC**Site Planning****Athletic Facilities**

39 Parkview Drive
Wethersfield, CT 06109
860-899-9556
www.llact.com



**TENNIS COURT RECONSTRUCTION
WATERFORD HIGH SCHOOL
WATERFORD, CT**

JOB NO: 2105
DATE: 04/20/21

ESTIMATED CONSTRUCTION COSTS [draft]**ASPHALT PAVEMENT SYSTEM**

A.	EROSION CONTROLS		\$4,400
B.	DEMOLITION		\$79,300
C.	SITE IMPROVEMENTS		\$238,500
	TENNIS COURT SYSTEM	\$173,800	
	FENCING	\$58,700	
	PRACTICE WALL	\$5,000	
	BENCHES	\$800	
	RAILING	\$200	
D.	SITE RESTORATION		\$4,000
	SUBTOTAL		\$326,200
	GENERAL CONDITIONS 5%		\$16,310
	CONTINGENCY 10%		\$32,620
	TOTAL		\$375,130

POST TENSIONED CONCRETE PAVEMENT SYSTEM

A.	EROSION CONTROLS		\$4,400
B.	DEMOLITION		\$79,300
C.	SITE IMPROVEMENTS		\$416,600
	TENNIS COURT SYSTEM	\$351,900	
	FENCING	\$58,700	
	PRACTICE WALL	\$5,000	
	BENCHES	\$800	
	RAILING	\$200	
D.	SITE RESTORATION		\$4,000
	SUBTOTAL		\$504,300
	GENERAL CONDITIONS 5%		\$25,215
	CONTINGENCY 10%		\$50,430
	TOTAL		\$579,945

ALTERNATE - REMOVE AND REPLACE BASE STONE

	SUBTOTAL	\$107,900
	GENERAL CONDITIONS 5%	\$5,395
	CONTINGENCY 10%	\$10,790
	TOTAL	\$124,085

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**TENNIS COURT RECONSTRUCTION
WATERFORD HIGH SCHOOL
WATERFORD, CT**

PROJECT NO: 2105
DATE OF ESTIMATE: 04/20/21
DATE OF PLAN USED: 04/19/21

ESTIMATED CONSTRUCTION COSTS [draft]**ASPHALT PAVEMENT SYSTEM**

	ITEM	UNIT	QUANTITY	UNIT COST	AMOUNT	SUB-TOTALS
A.	EROSION CONTROL					\$4,370
	1. HAY BALES	L.F.	20	\$6.00	\$120	
	2. SILTATION FENCE	L.F.	425	\$10.00	\$4,250	
B.	DEMOLITION					\$79,264
	1. TENNIS COURT PAVT.	S.F.	32,368	\$2.00	\$64,736	
	2. SIDEWALK PAVEMENT	S.F.	1,500	\$2.00	\$3,000	
	3. CHAIN LINK FENCE	L.F.	782	\$4.00	\$3,128	
	4. TENNIS BACKBOARD	L.S.			\$2,000	
	5. TENNIS NET POSTS	EA.	12	\$500.00	\$6,000	
	6. BENCHES	EA.	4	\$100.00	\$400	
C.	SITE IMPROVEMENTS					\$237,490
	1. TENNIS COURT PAVT.	S.F.	32,368	\$3.00	\$97,104	
	2. FIBERGLASS MEMBRANE	S.F.	32,368	\$0.50	\$16,184	
	3. RESURFACER	S.F.	32,368	\$0.50	\$16,184	
	4. COLOR COATING	S.F.	32,368	\$1.00	\$32,368	
	5. TENNIS NET & POSTS	SET	6	\$2,000.00	\$12,000	
	6. TENNIS FENCING (HT = 10 FT.)	L.F.	782	\$75.00	\$58,650	
	7. TENNIS PRACTICE WALL	L.S.			\$5,000	
	8. REINSTALL BENCHES	EA.	4	\$200.00	\$800	
	9. RAILINGS	L.F.	4	\$50.00	\$200	
D.	SITE RESTORATION					\$4,000
	1. FINE GRADE & SEED	S.F.	2,000	\$2.00	\$4,000	

SUBTOTAL \$326,124
General Conditions 5% \$16,306
Contingency 10% \$32,612
TOTAL \$375,043

ALTERNATE - REPLACE STONE BASE

	1. REMOVE & HAUL OUT GRAVEL BASE	C.Y.	1,798	\$25.00	\$44,950	\$107,880
	2. NEW GRAVEL & PROCESSED BASE	C.Y.	1,798	\$35.00	\$62,930	

SUBTOTAL \$107,880
General Conditions 5% \$5,394
Contingency 10% \$10,788
ALTERNATE TOTAL \$124,062

COMPLETE REPLACEMENT, INCLUDING BASE

SUBTOTALS 434,004
General Conditions 5% 21,700
Contingency 10% 43,400
TOTAL 499,105

[illegible]

**TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM**

DEPARTMENT/AGENCY <u>Board of Education</u>	CONTACT PERSON <u>Joseph Mancini</u>
PROJECT NAME <u>Quaker Hill Heat Pump</u>	DEPARTMENT PRIORITY <u>0</u>

1	DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project) The HVAC solution at Quaker Hill uses a compressed gas that is prohibitively expensive to use when repairing the heat pumps. There have been several failures over the last year, the board has been using parts from broken / replaced units to stretch out the useful life of some machines, but a more widespread replacement will need to occur. While the schools feel new, Quaker Hill will be 20 years old when these units are being replaced.																																																																													
2	PROJECT STATUS IF IN PROGRESS Not currently in progress																																																																													
3	LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST This project stands alone																																																																													
4	DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable) 																																																																													
5	GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available) None available																																																																													
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**TOWN OF WATERFORD
CAPITAL PROJECT REQUEST FORM**

DEPARTMENT/AGENCY

Board of Education

CONTACT PERSON

Thomas W. Giard III

PROJECT NAME

Upgrade District Phone System

DEPARTMENT PRIORITY

1 DESCRIPTION AND JUSTIFICATION (describe the type, purpose & anticipated accomplishments of the project)

The current phone installation began in 2009 with Quaker Hill Elem. School and was completed in 2013 with Waterford High School. It is comprised of VOIP Servers, gateways and phones throughout the Waterford school district. A VOIP system has many benefits. Cost savings because it uses the intranet and less phone lines from the phone company. Phone portability, this allows the school district to easily move phones without calling in external vendors for assistance. Allows for integration with the school lockdown system. VOIP systems have major components. Servers and gateways that need replacing in order to maintain the sophisticated features it provides. These components have a useful life of 10 years.

2 PROJECT STATUS IF IN PROGRESS

N/A

3 LIST OTHER PROJECTS WITHIN YOUR DEPARTMENT OR ANOTHER DEPARTMENT THAT WILL BE IMPACTED BY THIS REQUEST

N/A

4 DESCRIBE THE IMPACT ON DEPARTMENT OPERATING BUDGET (include cost estimate if applicable)

N/A

5 GRANT FUNDING/OTHER FUNDING, if applicable (detailed explanation of grant/other funding, including the amount, source of funding, status, town match, if any. Attach award letter if available)

N/A

6 ATTACH PLAN ESTIMATE, SERVICE AREA MAP AND/OR OTHER SUPPORTING DOCUMENTATION (if none, simply state that in the area below)

7 COST/FUNDING SOURCE

	FUNDING SOURCE	APPROVED FUNDING TO DATE	FY2023	FY2024	FY2025	FY2026	FY2027
1	Current Year Capital						
2	Utility Budget/Sewer Cap Maint Fund						
3	Transfer to CNR				100,000		
4	Short/Long-term Bonds						
5	LoCIP (detail in section 5 above)						
6	CNR Undesignated Fund Balance						
7	Federal/State Grants (detail in section 5)						
8	Other Funding (detail in section 5 above)						
	TOTALS	-	-	-	100,000	-	-