

Plumas Unified School District

Accessing Alternative Funding Sources for Infrastructure Improvements
The Preliminary Feasibility for CA 4217

ABM Building Solutions, LLC

09/09/2020



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Process Steps To Date



Introduction Meeting 10/22/1999

Letter of Authorization 01/09/2020

Preliminary Assessment 08/11/2020

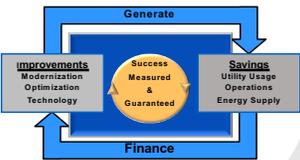
Preliminary Results and LOI 09/09/20




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Benefits of CA 4217

- Accomplish Facility, Technology & Infrastructure Improvements
- Reduce Utility and Associated Operational Expenses
- Low Interest Tax Exempt Financing is Typically Used
- Savings help Fund Improvements
- ABM Guarantees the Savings



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Preliminary Feasibility Assessment



- ✓ Sites Audited
- ✓ Ventilation Concerns at Sites
- ✓ Safe Breathing Zones
- ✓ Pre/Post Testing
- ✓ Potential Opportunity for Improvements
 - ✓ Phase 1
 - ✓ Phase 2



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Ventilation Concerns




- ✓ Sufficient Airflow Pattern
- ✓ 100% Non-Recirculated Air
 - Potential Lack of sufficient ventilation for Breathing Zones
- ✓ Potential Opportunity for Improvements
 - Phase 1 – Interim Ventilation Solution
 - Phase 2 – Permanent Ventilation Solution
- ✓ Dr. Khankari Defines Healthy Breathing Zone

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Existing Ventilation

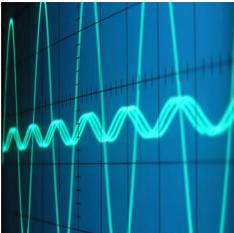



Upgrade to permanent ventilation solution in Phase 2.

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Ventilation Concerns

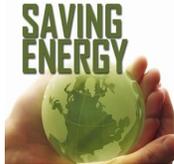



- ✓ Pre / Post Testing
 - Kim Worl, NES Scientist
- ✓ Results = Study with models and simulations
- ✓ Dr. Khankari and CFD Model

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Guaranteed Savings Performance Contracts

- ✓ Savings Fund Other Projects including New Ventilation
- ✓ Stretching Bond Dollars
- ✓ No Change Orders
- ✓ Guaranteed Savings by ABM
- ✓ One-stop Solution with Tremendous Strength

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Current Utility Expenses

Site	Electric Cost	Heating Oil	Water
Chester Junior/Senior High	\$44,648	\$56,678	\$9,437
Chester Elementary	\$45,679	\$22,000	\$3,465
Greenville Elementary	\$25,000	\$20,000	\$6,114
Greenville Junior/Senior High	\$81,121	\$71,740	\$10,461
Taylorville Elementary	\$1,971	\$5,988	\$831
Quincy Pioneer Elementary	\$29,587	\$25,000	\$7,923
Quincy Junior/Senior High	\$63,964	\$89,375	\$14,062
Quincy Alder Elementary	\$24,762	\$26,229	\$10,376
C Roy Carmichael Elementary	\$64,141	\$28,000	\$14,613
Portola Junior/Senior High	\$19,847	\$60,000	\$19,558
Bus Barn	\$32,722	\$14,806	\$1,360
Totals	\$413,000	\$420,000	\$931,000

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Possible Funding with CA 4217

SOLUTIONS ARE FUNDED THROUGH EXISTING OPERATING BUDGET REDUCTIONS

Potential Op/Ex Annual Savings	\$110,000
Preliminary "Turn-Key" Project Cost Estimate	\$6M-\$8M

\$1.6M

Over
15 Years



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Existing Lighting



Lighting to be upgraded to complete the remaining 2.5 sites in Phase 2.

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Existing Irrigation System



Irrigation System Upgrade in Phase 2

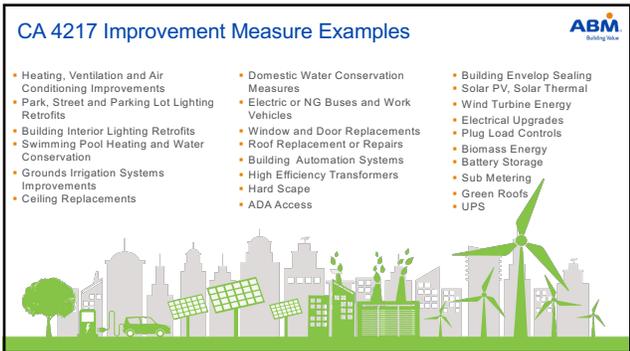
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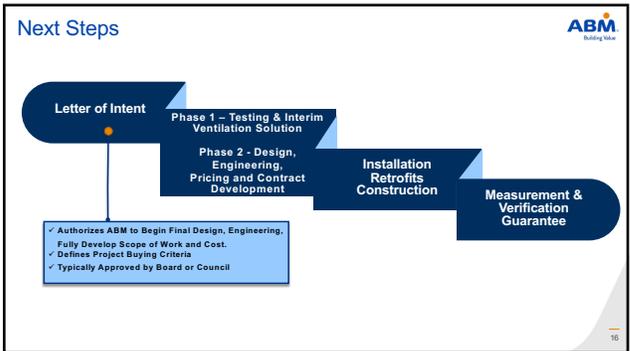
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Recommendations

- Move forward with LOI, test and demonstrate the best solutions for Healthy Breathing Zones and implement the tested interim ventilation in designated areas.
- Begin final engineering and design to select and price the best permanent solutions along with the additional ECMs that need to be addressed.
- Present Supt/Board with CA 4217 Funding Possibilities



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Thank You

ABM Building Solutions, LLC.

ABM Team

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- AE - Bill Sherbert
- EE - Josh Sarpotdar
- PD - Catherine Gyszowska
- RD - Mike Kempa



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