



**Johnson Controls, Inc.
Performance Contract**

PERFORMANCE CONTRACT

This Performance Contract (this "Agreement") is made this 18th day of June 2020 between:

PARTIES

JOHNSON CONTROLS, INC. ("JCI")
6 AERIAL WAY
SYOSSET, NY 11791

and

THE BOARD OF EDUCATION OF THE
SOUTH HUNTINGTON SCHOOL DISTRICT
("Customer" or the "District")
60 WESTON STREET
HUNTINGTON STATION, NY 11746

RECITALS

WHEREAS, Customer desires to retain JCI to perform the work specified in Schedule 1 (Scope of Work) hereto (the "Work") relating to the installation of the improvement measures/energy efficient measures (the "Improvement Measures" or "ECMs") described therein; and

WHEREAS, Customer is authorized and empowered under applicable Laws to enter into this Agreement, and has taken necessary action under applicable Laws to enter into this Agreement; and

WHEREAS, Customer has selected JCI to perform the Work after it determined JCI's proposal was the most advantageous to Customer in accordance with all applicable procurement and other Laws.

NOW, THEREFORE, in consideration of the mutual promises set forth herein, the parties agree as follows:

1. SCOPE OF THE AGREEMENT. JCI shall perform the Work set forth in Schedule 1. After the Work is Substantially Complete (as defined below) and the Certificate of Substantial Completion is executed by Customer, the Engineer of Record (as defined below in paragraph 3), and JCI, JCI shall provide the assured performance guarantee (the "Assured Performance Guarantee") and the measurement and verification services (the "M&V Services") set forth in Schedule 2 (Assured Performance Guarantee). Customer shall make payments to JCI for the Work and the M&V Services in accordance with Schedule 4 (Price and Payment Terms). Prior to the commencement of the Work, JCI shall provide the Engineer of Record with a list of sub-contractors that JCI intends to use for the project for approval by the Customer and the Engineer of Record.

JCI will install the Equipment identified on Schedule 1 of this Agreement (Work) and provide services detailed on Schedule 1 and Schedule 2 of this Agreement (Services). JCI shall supervise and direct the Work and Services and shall be solely responsible for all construction means, methods, techniques, sequences, and procedures and

for coordinating all portions of the Work and M&V Services under this Agreement. JCI shall be responsible to pay for all labor, materials, equipment, tools, construction equipment and machinery, transportation, and other facilities and services necessary for the proper execution and completion of the Work, whether temporary or permanent and whether or not incorporated or to be incorporated in the Work and Services.

- 2. AGREEMENT DOCUMENTS:** In addition to the terms and conditions of this Agreement, the following Schedules, Attachments and Appendices are incorporated into and shall be deemed part of this Agreement:

Schedule 1 – Scope of Work
Schedule 2 – Assured Performance Guarantee
Schedule 3 – Customer Responsibilities
Schedule 4 – Price and Payment Terms
Attachment 1 – Notice to Proceed
Attachment 2 – Change Order
Attachment 3 – Certificate of Substantial Completion; Certificate of Final Completion
Attachment 4 – Lighting Survey line-by-line “South Huntington Schools 4-2-2020”
Attachment 5 – Customer’s Request for Proposals (“RFP”)
Attachment 6 – Contract between Customer and H2M Architects and Engineers
Attachment 7 – JCI proposal in response to Customer’s RFP
Attachment 8 – Detailed Energy Audit
Attachment 9 – Customer’s AHERA Reports and Ceiling Tile Surveys
Attachment 10 – Pro Forma Cash Flow
Appendix 1- Scope of Architectural Services
Appendix 2- Scope of Construction Services & General Conditions
Appendix 3- Log of Option C Adjustments to Baseline
Appendix 4- Option C Baseline Adjustment Form
Appendix 5- Option C: A Sample Output of Metrix Software

- 3. ARCHITECT OF RECORD.** The Customer has identified H2M Architects & Engineers as the certified Architect of Record (the “Architect” or “Engineer”) to provide architectural/engineering services in connection with the Work to be performed by JCI (“Architectural/Engineering Services”). The fees and total compensation for such Architectural/Engineering Services shall be \$433,656 and shall be paid by JCI to the Architect in accordance with the terms of the contract between the Customer and H2M Architects & Engineers as attached hereto as Attachment 6 and as set forth in Schedule 4 hereof. The Architect’s fees are included in the Total Project Benefits and shall be covered by the Guaranteed Savings in all respects. Both JCI and Customer agree and acknowledge that the Architect owes its/his/her professional obligations and duties, including duties of care to the Customer. The Architect shall remain free from any financial interest in the Agreement which conflicts with the proper completion of its/his/her responsibilities under this Agreement and which conflicts with its/his/her responsibilities and duties to the Customer. JCI will coordinate all Work and activities under this Agreement with the Architect.

JCI will utilize the services of the Architect of Record and issue payment as set forth herein and in Attachment 6.

- 4. NOTICE TO PROCEED; SUBSTANTIAL COMPLETION; M&V SERVICES.** Pursuant to 8 NYCRR §155.20, this Agreement is subject to the approval of the Commissioner of Education of the State of New York. After receipt of written approval from the New York State Education Department (“SED”), and after Customer has secured financing subject to Section 32 of this Agreement, the Customer shall issue a Notice to Proceed, a form of which is attached hereto as Attachment 1 and which is in a form acceptable to SED. JCI shall commence performance of the Work within ten (10) business days of receipt of Customer’s Notice to Proceed, and shall achieve Substantial Completion of the Work by the Substantial Completion date, which shall be the date on which Customer and Architect execute a Certificate of Substantial Completion in the form attached hereto as Attachment 3.

Substantial Completion shall be achieved when the following items are completed by JCI and approved by Customer and the Architect:

- a. A written acknowledgement by the Customer that all of the Improvement Measures have been installed by JCI and completed to the satisfaction of the Customer and the Architect;

- b. A written acknowledgment by the Customer of receipt of manuals and training provided by JCI under the Agreement;
- c. A written acknowledgement by the Customer of the warranty start date and warranty period;
- d. The receipt of a punch list of items remaining to be completed by JCI;
- e. A written acknowledgement by the Customer of receipt of warranties, release of liens, and proof of payment to subcontractors; and,
- f. JCI is responsible for obtaining fire marshal approval, if such is required for this Project. JCI shall be responsible for any costs related to its failure to secure such approval.

The M&V Services shall commence on the first day of the month following the month in which Customer executes a Certificate of Substantial Completion for all ECMs and shall continue throughout the Guarantee Term, subject to earlier termination of the Assured Performance Guarantee as provided herein. Customer acknowledges and agrees that if, for any reason, it (i) cancels or terminates receipt of M&V Services, (ii) fails to pay for M&V Services in accordance with Schedule 4, (iii) fails to fulfill any of Customer's responsibilities necessary to enable JCI to complete the Work and provide the M&V Services, or (iv) otherwise cancels, terminates or materially breaches this Agreement, the Assured Performance Guarantee shall automatically terminate.

5. DELAYS AND IMPACTS. If JCI is delayed in the commencement, performance, or completion of the Work and/or M&V Services by causes beyond its reasonable control and without its fault, including but not limited to inability to access property; concealed or unknown conditions encountered at the project, differing from the conditions represented by Customer in the proposal documents or otherwise disclosed by Customer to JCI prior to the commencement of the Work; a Force Majeure (as defined below) condition; failure by Customer to perform its obligations under this Agreement; or failure by Customer to cooperate with JCI in the timely completion of the Work, JCI shall provide written notice to Customer of the existence, extent of, and reason for such delays and impacts. Under such circumstances, an equitable adjustment in the time for performance may be made subject to the mutual written agreement of the parties.

6. ACCESS. Customer shall provide JCI, its subcontractors, and its agents reasonable and safe access to all facilities and properties in Customer's control that are subject to the Work and M&V Services. Customer further agrees to assist JCI, its subcontractors, and its agents to gain access to facilities and properties that are not controlled by Customer but are necessary for JCI to complete the Work and provide the M&V Services. An equitable adjustment in the time for performance may be made as a result of any failure to grant such access, subject to the mutual written agreement of the parties. JCI shall be required to perform its Work between the hours of 2:30 p.m. to 10:30 p.m., Monday through Friday on school days when the buildings are open. During the summer, JCI shall be required to perform its work between the hours of 7:00am and 3:30pm Monday through Friday with no interruption to the District's operations, including its educational, administrative, business, special events and summer operations. All schedules must be approved by the District and its Architect in writing prior to commencing any work. Any work which will interfere with the District's operations and/or which is to be performed when the District's facilities are in operation shall be performed on evenings and weekends. Additionally, JCI shall conduct its Work during hours that are in compliance with federal, state, county or local, laws, rules, regulations, codes and ordinances. Provided that Customer allows JCI continuous access to the applicable facilities during normally scheduled custodial shifts, all costs incurred by the District, including overtime costs for District personnel, to make the facilities available during evening and weekends (Saturday and Sunday) shall be borne by JCI. The District reserves the right to determine what work will interfere with its operations and said determination shall be final. In addition, all overtime work that may be necessary must be pre-approved in writing by the Customer's Superintendent and the Assistant Superintendent. JCI shall be solely responsible for all costs associated with its failure to obtain such prior written approval. The Customer reserves the right to reject the use of any proposed subcontractors.

No drinking of alcoholic beverages, smoking or use of controlled substances is permitted on the grounds. JCI shall ensure that none of its employees, agents, consultants, or its Subcontractors' employees, agents, and/or consultant's report to the site impaired by alcohol or controlled substances. JCI bears the responsibility of determining if its employees, or its subcontractors', employees are in any way impaired and whether the safety of the public, the employees of JCI and its subcontractors, the Owner, Architect, or Construction Manager are jeopardized. Each contractor shall provide drinking water for its own employees. JCI's employees, representatives, agents and consultants, and all of its subcontractors' employees, representatives, agents and

consultants at the site are to refrain from using indecent language. All doing so will be removed from the site. Artwork or decoration found on vehicles belonging to Contractor or Subcontractor employees parked on or near the school property which contain indecent language or pictures shall either be covered or removed from the location.

- 7. PERMITS, TAXES, AND FEES.** JCI shall be responsible for obtaining all building permits and related permit fees associated with the Work and Services. Customer represents that it is a governmental entity and that it will cooperate with JCI and provide JCI with appropriate documentation that Customer is not obligated to pay any taxes associated with this Agreement. JCI shall pay any applicable sales, consumer, use, and other similar taxes and shall secure and pay for the building permit and other permits and governmental fees, licenses, and inspections necessary for proper execution. The Customer shall be responsible for securing any necessary approvals, easements or assessments required for the Work or the ownership and use of the Improvement Measures.

JCI shall not be obligated to provide any changes to or improvement of the facilities or any portion thereof required under any applicable building, fire, safety, sprinkler or other applicable code, standard, law, regulation, ordinance or other requirement unless the same regulates the installation of the Improvement Measures. Without limiting the foregoing, JCI's obligations with respect to the Work is not intended to encompass any changes or improvements that relate to any compliance matters (whether known or unknown) that are not directly related to the installation of the Improvement Measures or which have been imposed or enforced because of the occasion or opportunity of review by any governmental authority. JCI shall be responsible for and shall pay when due all assessments, charges and sales, use, property, excise, or other taxes now or hereafter imposed by any governmental body or agency upon the provision of the Work or the M&V Services, implementation or presence of the Improvement Measures, the use of the Improvement Measures or payments due to JCI under this Agreement.

- 8. WARRANTY.** JCI warrants that materials and equipment furnished by JCI will be of good quality and new and of recent manufacture, unless otherwise required or permitted by the Agreement documents; that the Work will be free from defects not inherent in the quality required or permitted; and that the Work and M&V Services will conform to the requirements of the Agreement Documents. Work not conforming to these requirements including substitutions not properly approved and authorized may be considered defective.

If within two (2) years following Substantial Completion (except where longer periods of time are specified in Schedule 1 and/or the Detailed Energy Audit or provided for in any manufacturer's warranties or special warranties issued or obtained following the commencement of the Work, in which case such longer periods shall apply) any of the work is found to be not in accordance with the requirements of the Agreement, JCI shall correct it promptly after receipt of written notice from the District and/or the Architect to do so, unless the District has previously given JCI a written acceptance of such condition. This period of two (2) years shall be extended with respect to portions of JCI's work first performed after Substantial Completion by the period of time between Substantial Completion and the actual performance of such work. The obligation set forth hereunder shall survive acceptance by the District of the work, and/or termination of JCI's agreement with the District. The District shall give such notice within a reasonable period of time after discovery of the condition.

Upon written notice from the Customer, JCI shall, at its option, repair or replace the defective Work or re-perform defective Services to the satisfaction of the Customer, as long as Customer provides written notice to JCI within two (2) years following Substantial Completion except where longer periods of time are specified in Schedule 1. These warranties do not extend to any Work that has been abused, altered, misused, or repaired by the Customer or third parties without the supervision and/or prior written approval of JCI, except in the case of an emergency; or if JCI serial numbers or warranty date decals have been removed or altered. If any Work is altered or repaired in an emergency, Customer will notify JCI immediately of such alterations or repairs. The Customer must promptly report any failure of the Equipment to JCI in writing. All replaced Equipment or parts remain Customer's property.

Customer understands that JCI is a provider of services under this Agreement. JCI shall not be considered a merchant or a vendor of goods. If JCI installs or furnishes a piece of equipment under this Agreement, and that equipment is covered by a warranty from the manufacturer, JCI will transfer the benefits of that manufacturer's warranty to Customer if this Agreement with Customer terminates before the equipment manufacturer's warranty expires.

JCI further warrants that the design, engineering, and installation services it performs will be performed consistent with good engineering practices and that all Work performed by JCI is warranted to be free from defects in materials and workmanship for a period of two (2) years from the date of execution of the Certificate of Substantial Completion by Customer. Any manufacturers' warranties which exceed this two (2) year period shall be assigned to Customer to the extent allowed by the manufacturer. The warranty provided in this Agreement shall be in addition to and not in limitation of any other warranty required by the contract documentation or otherwise prescribed by law. JCI shall procure and deliver to the District, no later than the date claimed by JCI as the date of final completion, all normal and special warranties required by the contract documents.

Prior to the commencement of the Work and issuance of the final cash flow statement as set forth herein, JCI shall be fully responsible for reviewing any and all existing warranties of equipment, fixtures and appurtenances located at the Customer's facilities, including but not limited to roofs, windows, doors, and boilers that may be directly and/or indirectly impacted by the work performed under the Agreement and any amendment to the Agreement to verify that the Work will not void any such existing warranties. In the event that its review uncovers a potential issue, JCI will notify the Customer in writing and the parties will agree upon a resolution. JCI shall coordinate with the existing manufacturers, including the roofing manufacturers for all roof PV installations, and have a pre-inspection of the equipment and/or materials performed prior to installation of any ECM, including the PV system. Further, JCI shall comply with all roof manufacturer, boiler, window, door manufacturers and other manufacturer warranty(ies) continuation procedures and will be responsible for all fees, inspections and additional materials to maintain the roof warranty(ies) or any other warranty(ies) that is directly and/or indirectly impacted by the work performed under the Agreement and any amendment. All inspections must be coordinated with the Customer and its Architect. Pre-inspection shall occur during the SED review phase. In the event that said work has any negative impact on the validity of any warranty, as determined by the applicable manufacturer(s), the Customer in its sole discretion shall have the right to terminate the Agreement or to reduce the scope of Work as necessary to achieve a positive cash flow for Customer during the term of the Agreement. In the event that the work proceeds as authorized by the manufacturer and said work is not installed in accordance with any manufacturer's requirements as set forth in the manufacturers' pre-inspection, JCI shall be full responsible for performing the necessary work to achieve the requirements of the manufacturer(s) for purposes of maintaining the existing warranties. JCI shall coordinate all pre and post installation inspections with the Customer's Architect of Record. In addition, all pre-inspection and post-inspection costs shall be borne solely by JCI. Notwithstanding the foregoing, if JCI (a) proceeds with any work that will impair or nullify any existing warranty(ies) and (b) the Customer has not been notified in writing of the potential issue and agreed to the performance of such work, JCI shall be fully liable for the warranty(ies). Upon completion of the work/services of the Agreement and any amendment thereto, JCI shall be fully responsible for reviewing and informing Customer of all warranties for equipment installed and/or replaced during the installation.

- 9. CLEANUP.** JCI shall keep the premises and the surrounding area free from accumulation of waste materials or rubbish caused by the Work on a daily basis and, upon completion of the Work, JCI shall remove all waste materials, rubbish, tools, construction equipment, machinery, and surplus materials and shall clean up the Work, including any dust from the materials, and surrounding areas to the reasonable satisfaction of the Customer. In the event that JCI fails to clean up the Work and the surrounding areas, upon twenty-four (24) hours written notice to JCI, the Customer will have the same cleaned. All reasonable costs associated with such clean up shall be back charged to JCI.
- 10. SAFETY; COMPLIANCE WITH LAWS.** JCI shall be responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the performance of the Work and M&V Services. JCI shall comply with all applicable laws, ordinances, rules, regulations, and lawful orders of public authorities (collectively, "Laws") in connection with its performance hereunder.

11. ASBESTOS-CONTAINING MATERIALS AND OTHER HAZARDOUS MATERIALS.

Asbestos-Containing Materials: JCI shall be responsible for the abatement, cleanup, control, removal or disposal of asbestos-containing materials ("ACM") as identified in the Agreement, attachments and appendices. JCI hereby represents and warrants that it has reviewed the Customer's AHERA Report, asbestos ceiling tile surveys and any and all other testing results or documentation related to such materials that have been provided to JCI by Customer and shall ensure that its subcontractors review said Report, surveys and other documentation. ACM removal, abatement or clean-up identified therein or in the attached schedules or Attachments and Appendices, hereof is being undertaken as part of the Agreement. JCI shall cause to be performed such removal/abatement

and clean-up in accordance with all applicable Federal, State and local laws, codes, rules, regulations and ordinances. JCI shall be fully responsible for the failure of JCI and/or its subcontractors to perform the Work in accordance with said requirements. JCI shall defend and hold harmless Customer, its officers, trustees, and employees from any and all actions, claims, costs, causes of action, damages, fines, fees, penalties, suits of any kind arising directly or indirectly from the performance of ACM related work and shall further cause its subcontractors to defend and hold harmless Customer, its officers, trustees, and employees from any and all actions, claims, costs, causes of action, damages, fines, fees, penalties, suits of any kind arising directly or indirectly from the performance of ACM related work. Customer shall provide in writing, and JCI and its subcontractors must review and become familiar with, the Customer's Asbestos Management Plan, AHERA Report, ceiling tile surveys and any other testing results or documentation provided to JCI. Consistent with applicable Laws, Customer shall supply JCI with any information in its possession relating to the presence of ACM in areas where JCI undertakes any Work or M&V Services that may result in the disturbance of ACM. If either Customer or JCI becomes aware of or suspects the presence of ACM that has not previously been identified in Customer's AHERA Report, the Customer's asbestos ceiling tile surveys, and other testing results or documentation set forth above and that may be disturbed by JCI's Work or M&V Services, it shall promptly stop the Work or M&V Services in the affected area and notify the other, and the parties shall meet to discuss how to proceed. Customer may request that JCI provide a calculation of the cost of enclosing, removing, encapsulating or otherwise abating such ACM in the areas in which Work or M&V Services are to be performed in accordance with applicable code, laws, rules, regulations, ordinances and guidelines. Upon receiving said calculation, the parties will meet and mutually agree upon how to proceed, including but not limited to the following options: (i) arranging to have said ACM abated at the Customer's cost; or (ii) Customer paying JCI to cause such ACM to be abated; and/or (iii) revising the scope of work to include additional ACM abatement subject to review and approval of SED.

Other Hazardous Materials: JCI shall be solely responsible for abating, removing or disposing of any Hazardous Materials (as defined below) associated with the Work or M&V Services ("JCI Hazardous Materials") and for the remediation of any areas impacted by the release of JCI Hazardous Materials. All costs for said abatement, disposal and/or removal of JCI Hazardous Materials, including all necessary and required testing, are solely the responsibility of JCI. For other Hazardous Materials that may be otherwise present at Customer's facilities ("Non-JCI Hazardous Materials"), Customer shall supply JCI with any information in its possession relating to the presence of such materials if their presence may affect JCI's performance of the Work or M&V Services. If either Customer or JCI becomes aware of or suspects the presence of Non-JCI Hazardous Materials that may interfere with JCI's Work or M&V Services other than those Non-JCI Hazardous Materials already identified by Customer and JCI in writing as part of this Agreement, it shall promptly stop the Work or M&V Services in the affected area and notify the other. For purposes of this Agreement, "Hazardous Materials" means any material or substance that, whether by its nature or use, is now or hereafter defined or regulated as a hazardous waste, hazardous substance, pollutant or contaminant under applicable Law relating to or addressing public or employee health and safety and protection of the environment, or which is toxic, explosive, corrosive, flammable, radioactive, carcinogenic, mutagenic or otherwise hazardous or which is or contains petroleum, gasoline, diesel, fuel, another petroleum hydrocarbon product, polychlorinated biphenyls or mercury. "Hazardous Materials" specifically includes mold. Should JCI and/or its subcontractors become aware of the presence of Non-JCI Hazardous Materials that may be disturbed by JCI's Work or M&V Services, JCI shall promptly notify Customer, and the parties shall meet to discuss how to proceed. Customer may request that JCI provide a calculation of the cost of remediating such Non-JCI Hazardous Materials in the areas in which Work or M&V Services are to be performed in accordance with applicable code, laws, rules, regulations, ordinances and guidelines. Upon receiving said calculation, the parties will meet and mutually agree upon how to proceed, including but not limited to the following options: (i) arranging to have said Non-JCI Hazardous Materials remediated at the Customer's cost; or (ii) Customer paying JCI to cause such Non-JCI Hazardous Materials to be remediated; and/or (iii) revising the scope of work to include additional ACM abatement subject to review and approval of SED.

JCI shall not be responsible for any losses, costs, damages, expenses (including reasonable legal fees and defense costs), claims, causes of action or liability, directly or indirectly, relating to or arising from the Customer's use, or Customer's storage, release, discharge, handling or presence of mold or Non-JCI Hazardous Materials on, under or about the facilities, or Customer's failure to comply with this Section 11. Notwithstanding the foregoing, JCI shall indemnify and hold harmless the District from any and all liability associated with the removal, abatement and/or disposal of asbestos containing and hazardous materials undertaken by JCI, its employees, agents, representatives or its subcontractors or agents pursuant to this Agreement.

JCI shall coordinate any asbestos/hazardous material testing and sampling with the Customer's Environmental Consultant. All costs associated with such testing/sampling shall be the responsibility of JCI.

12. CHANGE ORDERS. The parties, without invalidating this Agreement, may request changes in the Work to be performed under this Agreement, consisting of additions, deletions, or other revisions to the Work ("Change Orders"). The price and payment terms, time for performance and, if necessary, the Assured Performance Guarantee, shall be equitably adjusted in accordance with the Change Order. Such adjustments shall be determined by mutual written agreement of the parties and shall be subject to the availability of funds and written approval of the Board of Education for Customer, the Architect, SED and leasing company, if necessary. Any Change Order will not be considered effective until it is signed by an authorized representative of each party and the Architect. Upon written consent of the Customer, JCI may delay performance of Work subject to the Change Order until adjustments arising out of the Change Order are clarified and agreed upon. If concealed or unknown conditions are encountered at the project, differing from the conditions represented by Customer in the proposal documents or otherwise disclosed by Customer to JCI prior to the commencement of the Work, price and payment terms, time for performance and, if necessary, the Assured Performance Guarantee, shall be equitably adjusted subject to the availability of funds and written approval of the Board of Education, the Architect and SED.

13. TITLE TO THE EQUIPMENT. Title to all completed or partially completed work at the job site, all materials to be used in connection with the work, and all materials delivered to and/or stored at said job site which are intended to become a part of the completed work covered by this Agreement shall be in the name of the Customer. Notwithstanding the foregoing, and prior to acceptance of the completed work by the Customer, JCI shall be liable for all loss of or damage to said completed work, partially completed work, materials furnished by JCI, and/or materials or equipment furnished by others, the custody of which has been given to JCI, arising from any cause other than those against which the Customer herein undertakes to carry insurance. In the event of loss or damage from cause other than those against which the Customer undertakes to carry insurance, JCI shall replace or repair the said work or materials at its own cost and expense, to the complete satisfaction of the Customer and its Architect.

14. CUSTOMER FINANCING; TREATMENT; TAXES. The parties acknowledge and agree that JCI is not making any representation or warranty to Customer with respect to matters not expressly addressed in this Agreement, including, but not limited to:

- (a) Customer's ability to obtain or make payments on any financing associated with paying for the Improvement Measures, related services, or otherwise; and
- (b) Customer's proper legal, tax, accounting, or credit rating agency treatment relating to this Agreement.

15. INSURANCE.

A. Prior to commencing the Work, JCI shall provide a certificate of insurance with JCI showing its insurance coverage's, and JCI shall maintain such insurance in full force and effect at all times until the Work and Services have been completed, in the following minimum amounts:

COVERAGES	LIMITS OF LIABILITY
Errors & Omissions Policy	\$5,000,000.00 per occurrence \$5,000,000.00 aggregate
Workmen's Compensation Insurance or self- insurance, including Employer's Liability	Statutory \$1,000,000 each accident, disease each employee and disease policy limit
Commercial General Liability Insurance, including Contractual.	\$10,000,000 per Occurrence \$10,000,000 Aggregate on a per project basis

Products – Completed/Operations	
Personal & Advertising Injury	\$10,000,000 \$10,000,000 each occurrence
Fire Damage (any one fire)	
Medical Expenses (any one person)	\$1,000,000 \$500,000
Commercial Automobile Liability Insurance	\$10,000,000 Combined Single Limit
Installation floater insurance	Amount sufficient to repair or replace the work. The Customer must be listed as a loss payee on this policy.

The above limits are obtained through primary and excess policies.

Coverages shall be maintained without interruption from the date of commencement of the Work until the date of final payment and termination of any coverage required to be maintained after final payment.

- B. The insurance required to be procured by JCI pursuant to paragraph A of this section shall be purchased from and maintained by an insurance carrier authorized to do business in the State of New York, with an A. M. Best rating of "A" or better. JCI must submit the Certificate of Insurance to the Customer for its approval prior to the commencement of any work as well as any endorsement pages requested by Customer or its representatives.
- C. All insurance coverage to be provided by JCI pursuant to paragraph A of this section shall include a cancellation pursuant to the terms of the policy(ies).
- D. All commercial general and automobile liability insurance coverage to be provided by JCI shall include the Customer and its Architect and Construction Manager as additional insureds on the policy(ies) with respect to operations performed for Customer by or on behalf of JCI. Additionally, the insurance coverage to be provided by JCI pursuant to paragraph A of this section shall state that JCI's coverage shall be the primary coverage for JCI's work. Additional insured status will be provided by both ISO additional insured endorsement CG 2033 and CG 20 37 or equivalent.
- E. In the event that any of the insurance coverage to be provided by JCI to the Customer contains a deductible, JCI shall indemnify and hold the Customer, Architect, Consultant or Sub-Consultants and agents and employees of Customer, Architect, Consultant or Sub-Consultants harmless from the payment of such deductible, which deductible shall in all circumstances remain the sole obligation and expense of JCI.
- F. JCI acknowledges that its failure to obtain or keep current the insurance coverage required by paragraph A of this section shall constitute a material breach of contract and subjects JCI to liability for damages the Customer sustains as a result of such breach. This indemnity obligation is in addition to any other indemnity obligation provided in the Agreement. In addition, JCI shall be responsible for the indemnification to the Customer of any and all costs associated with such lapse in coverage, including but not limited to reasonable attorney's fees.
- G. JCI shall require all subcontractors to carry appropriate insurance coverages and limits of liability similar to those set forth in paragraph A of this section and adjusted to the nature of subcontractors' operations and submit proof of same to the Customer for approval prior to start of any work. In the event that JCI fails to require its Subcontractors to carry such insurance and a claim is made or suffered, JCI shall indemnify, defend, and hold harmless the Customer, Architect, Construction Manager, Consultants, and Sub-Consultants, board, officers and their agents and employees from any and all claims for which the required insurance would have provided coverage. This indemnity obligation is in addition to any other indemnity obligation that will be provided for the Contract.
- H. JCI assumes responsibility for all injury or destruction of JCI's materials, tools, machinery, equipment, appliances, shoring, scaffolding, false and form work, and personal property of JCI's employees. Any policy of insurance secured covering JCI or Subcontractors leased or hired by them and any policy of insurance covering JCI or

Subcontractors against physical loss or damage to such property shall include an endorsement waiving the right of subrogation against the Customer for any loss or damage to such property.

- I. The Customer in good faith may adjust and settle a loss with JCI's insurance carrier.
- J. JCI waives all rights against the Customer, its board, officers, agents and employees for damages caused by fire or other perils to the extent of actual recovery of any insurance proceeds under any insurance policy procured or other property insurance applicable to JCI's work.
- K. In addition to the coverages required and under the same terms and requirements of such coverages, in the event that JCI undertakes any asbestos and/or hazardous material work under this Agreement, JCI shall provide hazardous material liability insurance as follows: \$2,000,000/occurrence/\$2,000,000 aggregate, including products and completed operations. Such insurance shall name the Customer, its Architect and Construction Manager as additional insureds and include coverage for JCI's operations including, but not limited to, removal, replacement, enclosure, encapsulation and/or disposal of asbestos, or any other hazardous material, along with any related pollution events, including coverage for third party liability claims for bodily injury, property damage and cleanup costs. If a retroactive date is used, it shall predate the inception of the Agreement. If motor vehicles are used for transporting hazardous materials, shall provide pollution liability broadened coverage (ISO endorsement CA 9948) as well as proof of MC90. Coverage shall fulfill all requirements set forth herein and shall extend for a period of three (3) years following acceptance by the Customer of the Certificate of Completion. In the event that JCI engages an environmental subcontractor for removal, replacement, enclosure, encapsulation and/or disposal of asbestos, or any other hazardous material, along with any related pollution events, JCI shall require said environmental subcontractor to provide the hazardous material liability insurance as described herein.
- L. In addition to the coverages required and under the same terms and requirements of such coverages, JCI shall require its environmental subcontractor to provide hazardous material liability insurance as follows: \$2,000,000/occurrence/\$2,000,000 aggregate, including products and completed operations. Such insurance shall name the Customer and its Architect as an additional insured and include coverage for the subcontractor's operations including, but not limited to, removal, replacement, enclosure, encapsulation and/or disposal of asbestos, or any other hazardous material, along with any related pollution events, including coverage for third party liability claims for bodily injury, property damage and cleanup costs. If a retroactive date is used, it shall predate the inception of the Agreement. If motor vehicles are used for transporting hazardous materials, JCI's environmental subcontractor shall provide pollution liability broadened coverage (ISO endorsement CA 9948) as well as proof of MC90. Coverage shall fulfill all requirements set forth herein and shall extend for a period of three (3) years following acceptance by the Customer of the Certificate of Completion.
- M. Before commencement of its work, JCI shall obtain and pay for such insurance as may be required to comply with the provisions outlined under the Agreement.
- N. Under no circumstance, shall JCI limit its liability to the amount of its primary general comprehensive policy limits.

16. INDEMNIFICATION.

To the fullest extent permitted by applicable Law, JCI agrees to defend, indemnify and hold the District, its Board, officers, employees, agents, representatives and assigns, harmless from and against any and all claims, liabilities, actions, judgments, losses, costs, damages or expenses (including reasonable attorneys' fees) suits, actions or damages ("claims") arising by reason of bodily injury, death or damage to property to the extent caused by the negligence, misconduct or wrongful act of JCI, its officers, agents, subcontractors or employees.

JCI shall indemnify and hold harmless the District, its board, officers, employees, agents, representatives and assigns against any and all claims, actions, damages, liabilities, and expenses, including reasonable attorney's fees as determined by court order, arising out of or related to any claims of patent infringement and any claims of construction or materialman's lien made by any subcontractor or materialman.

JCI shall indemnify and hold harmless the District, its board, officers, employees, agents and assigns from and against all claims, actions, damages, liabilities and expenses, including reasonable attorney's fees, arising out of or

related to JCI's, its officers, employees, agents, representatives, or its subcontractor's performance of this Agreement.

This paragraph 16 shall survive termination of this Agreement.

17. PAYMENT AND PERFORMANCE BOND.

- A. JCI shall, prior to the commencement of construction, deliver to the Customer Performance and Payment Bonds in a sum equal to the contract amount with sureties licensed by the State of New York and satisfactory to the Customer, conditioned upon the faithful performance by JCI, for the implementation of the Improvement Measures, such bonds to be in such form of AIA Document A312, as modified, and shall contain such provisions as are reasonably satisfactory to the Customer. The Performance and Payments Bonds shall apply only to the Installation Period, as defined in Schedule 2. Such bonds shall not apply to the Assured Performance Guarantee. A rider including the following provisions shall be attached to each Bond:
1. Surety hereby agrees that it consents to and waives notice of any addition, alteration, omission, change, or other modification of the Agreement Documents. Such addition, alteration, change, extension of time, or other modification of the Agreement Documents, or a forbearance on the part of either the Customer or JCI to the other, shall not release the Surety of its obligations hereunder and notice to the Surety of such matters is hereby waived.
 2. Surety further agrees that in event of any default by the Customer in the performance of the Customer's obligations to JCI under the Agreement, JCI or Surety shall cause written notice of such default (specifying said default in detail) to be given to the Customer, and the Customer shall have thirty (30) days from time after receipt of such notice within which to cure such default, or such additional reasonable period of time as may be required if the nature of such default is such that it cannot be cured within thirty (30) days. Such Notice of Default shall be sent by certified or registered U.S. Mail, return receipt requested, first class postage prepaid, to Lender and the Customer.
- B. In addition to the payment and performance bond described herein, JCI shall deliver to the Customer an Energy Savings Guarantee Bond in an amount equal to 100% of the total cost of the guaranteed savings as set forth in this Agreement. The Energy Savings Guarantee Bond shall be issued for the term of the Guarantee Period as defined in Schedule 2 hereof.
- C. If the financial lending institution selected by the District requires a Dual Oblige Rider, such Rider shall be subject to review and approval by the District and its legal counsel. In addition, JCI shall undertake all necessary efforts to expedite the issuance of said Dual Oblige Rider and the required modifications to said Rider, if any.

18. REVIEW BY THE STATE EDUCATION DEPARTMENT/APPROVAL OF CONTRACT. JCI and Customer acknowledge that this Agreement is subject to 8 NYCRR 155.20 and, as such, requires the approval of the Commissioner of Education of the State of New York. This Agreement shall not be executory until Commissioner's approval is obtained. Upon receiving SED approval and building permits, state aid runs, and all necessary approvals, the cash flow for the Project will be recalculated with current energy costs, utility rebates, building aid and current interest rates. If the recalculation of cash flow does not yield a positive cash flow for Customer, Customer reserves the right in its sole discretion and without any liability to JCI whatsoever, to terminate this Agreement in its entirety or reduce the scope of the Work as necessary to achieve a positive cash flow for the Customer during the term of the Agreement. Moreover, in the event that building aid for the Project is reduced and/or eliminated or, the necessary approvals referenced herein are not received or are substantially modified, Customer, in its sole discretion and without any liability to JCI whatsoever, shall have the right to terminate the Agreement or to reduce the scope of Work as necessary to achieve a positive cash flow for Customer during the term of the Agreement. Moreover, in the event that it is determined that any ECM included herein is prohibited from being included in the scope of work by SED and/or the Customer, in whole or in part, as a result of any Customer agreement or obligation, or it is determined by the Customer that it is not in its best interest to include any ECM in this project because of any Customer agreement(s) or obligation(s), in whole or in part, Customer, in its sole discretion and without any liability to JCI whatsoever, shall have the right to terminate the Agreement or to reduce the scope of Work as necessary to achieve a positive cash flow for Customer during

the term of the Agreement. The Price and Payment Terms set forth at Schedule 4 of this Agreement will be adjusted by Change Order or amendment to this Agreement to reflect any necessary modifications resulting therefrom. Upon request by Customer, JCI will assist Customer in obtaining additional aid for the Project which may include SED building aid and/or rebates.

In addition, this Agreement shall not be executory until Customer's attorneys' approval is obtained. Prior to SED approval, it shall be JCI's sole responsibility to validate each Improvement Measure with Customer and gain the final approval of the savings outlined in Schedule 2. This process may include the providing of mock-ups and/or site visits as well as delivering additional presentations if necessary. Without final Customer approval of Schedule 2 and any requested mock-ups, this Agreement shall not be executory. If SED approval is not obtained within 365 days of the date of the Architect's submittal to SED, JCI reserves the right to propose modifying the terms of this Agreement, including but not limited to the cost to be financed under this Agreement, subject to Customer's approval in writing, which shall not be unreasonably withheld. JCI agrees to cooperate with Customer in obtaining necessary approvals, including approval by the Commissioner of Education. This shall include providing the certifications pursuant to 155.20 (d) (7) (ii), (iii) and (iv) of the Regulations of the Commissioner of Education. Notwithstanding the above, should any portion of this Agreement fail to be approved by SED, or, if the Scope of Work contained in this Agreement is not approved by SED in its entirety, Customer may, in its sole discretion, elect to terminate this Agreement. JCI shall have no remedy at law or in equity for such termination or for any costs incurred by JCI up to the effective date of termination.

In addition to the Customer's right to reduce the scope of work as set forth in this Section 18 and Section 19 herein or Customer's right to terminate this Agreement as described herein, the Customer further reserves the right, in its sole discretion and without any liability to JCI whatsoever, to reduce the scope of work if the Customer determines that any ECM, or portion thereof, is no longer necessary or if any ECM, or portion thereof, is undertaken by the Customer as part of a capital improvement project or bond referendum project. JCI shall schedule its work with H2M and shall be responsible for coordinating its work with any capital improvements undertaken at the District.

19. CASH FLOW STATEMENTS. It is understood and agreed that, at all times during the Guarantee Period, the annual savings set forth in the cash flow statements must remain positive. JCI shall provide the District with the required cash flow statements as set forth herein. Such cash flow statements shall be appended to this Agreement. The cash flow statement shall list the guaranteed rebates; however, all rebates shall inure to and be payable to the District. In addition, JCI shall provide the District with revised cash flow statements at the following intervals: (1) upon the New York State Education Department's approval of the Agreement and any amendment between the parties; (2) upon issuance of the State Aid report identifying the aid that will be allocated for the project; (3) upon receipt of any utility rebate or incentive; (4) upon the District's finalization of its financing of the project (the "Financing Period"); (5) prior to the commencement of any work under the Agreement and any amendments; and (6) at any other time as may be requested by the District. All revised cash flow statements shall be attached and become part of the contract documents. If the Project does not yield a positive cash flow to the District for any year of the contract term (as identified by the cash flow statements provided during the Financing Period), the District shall be permitted to reduce the scope of the Project without liability of any type so as to achieve a positive cash flow in each year of the contract term. The Project shall not commence until the District provides its written acceptance of the final cash flow statement, which must include the eligible building aid for the Project as provided by the New York State Education Department in writing and the applicable interest rate for the Project. Under no circumstance, shall the Project commence without written authorization from the District approving the cash flow for the Project. In the event that JCI commences without written approval of the final cash flow statement, JCI shall be liable for any negative cash flow of the District for the entire term of the Agreement and for any other loss incurred by the District resulting from its failure to produce a positive cash flow for each year of the Project.

20. CORRESPONDENCE. JCI shall provide copies of all correspondence and/or other communications by and/or between it, the Architect, Consultants and/or the New York State Education Department contemporaneously with its transmission or receipt of such communications. JCI shall be responsible for assuring that the District received the transmittals and correspondence, maintaining all correspondence and turning over the same after project completion.

- 21. FORCE MAJEURE.** Neither party will be responsible to the other for damages, loss, injury, or delay caused by conditions that are beyond the reasonable control, and without the intentional misconduct or negligence of that party. Such conditions (each, a "Force Majeure") include, but are not limited to: acts of God; acts of government officials or agencies; quarantine restrictions; pandemics; fires; explosions or other casualties; riots or war; acts of terrorism; electrical power outages; or interruptions or degradations in telecommunications, computer, or electronic communications systems.
- 22. JCI'S PROPERTY.** Except as set forth in Schedule 1 – Scope of Work regarding materials to be furnished or installed as part of the Work, all materials and tools used by JCI personnel and/or JCI subcontractors or agents at the installation site, including documentation, schematics, test equipment, software and associated media, remain the exclusive property of JCI or such other third party. Customer agrees not to use such materials for any purpose at any time without the express authorization of JCI. Customer agrees to allow JCI personnel and/or JCI subcontractors or agents to retrieve and to remove all such materials remaining after installation or maintenance operations have been completed upon appointment during normal business hours. Customer acknowledges that any software furnished in connection with the Work and/or M&V Services is proprietary and subject to the provisions of any software license agreement associated with such software.
- 23. GOVERNING LAW.** The Agreement shall be governed and construed in accordance with the laws of the State of New York without regard to choice of law principles. The parties agree that the sole jurisdiction and venue for actions related to the subject matter hereof shall be the State and U.S. Federal courts in the County of Suffolk, New York. Both parties consent to the jurisdiction of such courts and waive any objections regarding venue in such courts.
- 24. MODIFICATIONS.** Additions, deletions, and modifications to this Agreement may be made upon the mutual agreement of the parties in writing. The parties contemplate that such modifications may include, but are not limited to, the installation of additional improvement measures, energy conservation measures, facility improvement measures, and operational efficiency improvements or furnishing of additional services within the identified facilities, as well as other facilities owned or operated by the Customer or the deletion or reduction of scope. These modifications may take the form of additional work or modifications to or deletion of the original scope of Work or Services.
- 25. TERMINATION.** Customer reserves the right to terminate this Agreement for any reason, or no reason whatsoever, upon thirty (30) days written notice to JCI. In the event of such termination, the parties shall endeavor in an orderly manner to wind down activities hereunder. In the event of termination, all reports and services due to the Customer must be completed by JCI, its employees, and/or agents within thirty (30) days of the termination date. Customer shall pay to JCI all undisputed amounts due for Work satisfactorily completed up to the date of termination.
- 26. WAGE AND HOURS PROVISIONS.** This is a public work contract covered by Article 8 of the Labor Law. Neither JCI's employees nor the employees of its subcontractors may be required or permitted to work more than the number of hours or days stated in said statutes, except as otherwise provided in the Labor Law and as set forth in prevailing wage and supplement schedules issued by the State Labor Department. Furthermore, JCI and its subcontractors must pay at least the prevailing wage rate and pay or provide the prevailing supplements, including the premium rates for overtime pay, as determined by the State Labor Department in accordance with the Labor Law. Accordingly, JCI and each of its subcontractors shall comply with Prevailing Wage Rates as issued by the State of New York Department of Labor for the location and duration of this Project and shall comply with all requirements governing its payments to its employees as set forth in section 220 et. seq. of the New York State Labor Law. JCI must submit the required certified payrolls with its requests for payment. The Customer will not make any payment to JCI unless the completed certified payrolls are submitted to the Customer.
- 27. CONSENTS; APPROVALS; COOPERATION.** Whenever Customer's consent, approval, satisfaction or determination shall be required or permitted under this Agreement, and this Agreement does not expressly state that Customer may act in its sole discretion, such consent, approval, satisfaction or determination shall not be unreasonably withheld, qualified, conditioned or delayed, whether or not such a "reasonableness" standard is expressly stated in this Agreement. Whenever Customer's cooperation is required by JCI in order to carry out JCI's obligations hereunder, Customer agrees that it shall act in good faith and reasonably in so cooperating with JCI and/or JCI's designated representatives or assignees or subcontractors. Customer shall furnish decisions,

information, and approvals required by this Agreement in a timely manner so as not to delay the performance of the Work or M&V Services.

- 28. FURTHER ASSURANCES.** The parties shall execute and deliver all documents and perform all further acts that may be reasonably necessary to effectuate the provisions of this Agreement.
- 29. INDEPENDENT CONTRACTOR.** JCI is an independent contractor in all respects with regard to this Agreement. Nothing contained in this Agreement shall be deemed to create a partnership, joint venture, fiduciary, or similar relationship between the parties. Nothing in this Agreement shall be construed as reserving to Customer any right to exercise any control over or to direct in any respect the conduct or management of business or operations of JCI on the Customer's property. The entire control or direction of such business and operations shall be in and shall remain in JCI, subject only to JCI's performance of its obligations under this Agreement. Neither JCI nor any person performing any duties or engaged in any Work on the Customer's property on behalf of JCI shall be deemed an employee or agent of Customer. Nothing in this Section shall be deemed to be a waiver of the Customer's right to use its property. Customer and JCI are independent of one another and shall have no other relationship relating to or arising out of this Agreement. Neither party shall have or hold itself out as having the right or authority to bind or create liability for the other by its intentional or negligent act or omission, or to make any contract or otherwise assume any obligation or responsibility in the name of or on behalf of the other party.
- 30. NOTICE/SERVICE OF PROCESS.** In addition to the methods of service allowed by the New York State Civil Practice Law & Rules ("CPLR"), the parties hereby consent to service of process upon them by registered or certified mail, return receipt requested. Service hereunder shall be complete upon a party's receipt of process or upon the sending party's receipt of the return thereof by the United States Postal Service as refused or undeliverable. The parties must promptly notify each other, in writing, of each and every change of address to which service of process can be made. Service by a party to the last known address of the other party shall be sufficient.
- 31. COMPLIANCE WITH LAW.** JCI shall comply with and obtain, at its expense, all licenses and permits required by Federal, State and local laws, rules, regulations and ordinances in connection with the installation of the Improvement Measures. To the extent that JCI agrees to perform operations and/or maintenance of specified Improvement Measures or other equipment, it shall comply with and obtain, at its expense, all licenses and permits which may be required by Federal, state and local laws, rules, regulations and ordinances in connection with the operation and/or maintenance of such specified Improvement Measures. In the event that JCI cannot procure any such license or permit in light of a requirement that Customer is required to do so, Customer will procure the same at JCI's cost and expense. JCI shall comply with all applicable laws, ordinances, rules, regulations, and lawful orders of public authorities (collectively "Laws") in connection with its performance hereunder.
- 32. NON-APPROPRIATION.** Pursuant to New York State Energy Law section 109, et. seq. and 8 N.Y.C.R.R. 155.20, this Agreement shall be executory only to the extent of the monies appropriated and available for the purposes of this Agreement, and no liability on account therefor shall be incurred beyond the amount of such monies. It is understood that neither this Agreement nor any representation by any public employee or officer creates any legal or moral obligation to request, appropriate or make available monies for the purpose of the Agreement.
- 33. ASSIGNMENT.** The parties agree not to assign, transfer, convey or sublet or otherwise dispose of this Agreement nor any duties or obligations hereunder or rights, title and interest therein or power to execute such Agreement, to any other person, firm or corporation without the previous consent in writing of the other party; provided, however, that JCI may subcontract any portion of the Work to be performed hereunder in accordance with the provisions set forth herein. JCI may not assign any monies due or to become due to it pursuant to its Agreement with Customer without Customer's prior written consent. Any such assignment shall be in a form acceptable to Customer and the financial lending institution selected by the Customer, if necessary. If JCI attempts to make such an assignment without such consent from Customer, JCI shall nevertheless remain legally responsible for all obligations under its Agreement with Customer.
- 34. SUBCONTRACTING.** JCI shall provide the Customer with a list of subcontractors that it proposes to use in meeting its obligations hereunder; however, all subcontractors must be approved by Customer in writing and in advance. JCI shall meet with the Customer to review the list of proposed subcontractors before any work

commences. Customer shall have the right to reject the use of any subcontractor in its sole discretion. Subcontractors will not be acceptable unless evidence is furnished that the proposed subcontractor has satisfactorily completed similar subcontracts as contemplated under this prime contract, and has the necessary experience, personnel, equipment, plant, and financial ability to complete the subcontract in accordance with the intent of this Agreement. JCI and its subcontractors will be required to wear photo identification and yellow safety vests at all times while on Customer's property. JCI and its subcontractors as necessary shall attend any meetings when reasonably required during the construction of the Project. By appropriate agreement, JCI shall require each subcontractor to be bound to JCI by the terms of this Agreement and shall further require its subcontractors to procure the required insurance as set forth herein at paragraph 15.

- 35. NOTIFICATIONS OF GOVERNMENTAL ACTION - Occupational Safety and Health.** The parties agree to notify each other as promptly as is reasonably possible upon becoming aware of an inspection under, or any alleged violation of, the Occupational Safety and Health Act or any other provision of Federal, state or local codes, laws, rule or regulation relating in any way to the undertakings of either Party under this Agreement. JCI represents and warrants that it will meet all applicable OSHA requirements applicable to this Agreement, including any required certification and training requirements for its employees and its subcontractors.
- 36. TRAINING.** JCI shall provide adequate training to Customer's employees to allow Customer or its employees to have sufficient knowledge with respect to the proper use and operation of the equipment and ECMs.
- 37. WAIVER.** The failure of either party to require compliance with any provision of this Agreement shall not affect that party's right to later enforce the same. It is agreed that the waiver by either party of performance of any other terms of this Agreement or of any breach thereof will not be held or deemed to be a waiver by that party of any subsequent failure to perform the same or any other term or condition of this Agreement or any breach thereof.
- 38. NON-DISCRIMINATION.** JCI agrees not to discriminate against any employee, or applicant for employment, to be employed in the performance of this Agreement, with respect to hire, tenure, terms, conditions or privileges of employment, or any matter directly or indirectly related to employment, because of age, sex, race, disability, color, religion, national origin, Vietnam era military service or ancestry in accordance with applicable Federal, New York State or local laws, rules, and ordinances.
- 39. INTERNATIONAL BOYCOTT.** In accordance with Section 220-f of the Labor Law and Section 139-h of the State Finance Law, if this Agreement exceeds \$5,000, JCI, as a material condition of the Agreement, represents that neither JCI nor any substantially owned or affiliated person, firm, partnership or corporation has participated, is participating, or shall participate in an international boycott in violation of the Federal Export Administration Act of 1979 (50 USC App. Sections 2401 et seq.) or regulations thereunder. If JCI, or any of the aforesaid affiliates of JCI, is convicted or is otherwise found to have violated said laws or regulations under the final determination of the United States Commerce Department or any other appropriate agency of the United States subsequent to the contractors execution, such contract, amendment or modification thereto shall be rendered forfeit and void. JCI shall so notify Customer within five (5) business days of such conviction, determination or disposition of appeal (2 NYCRR 105.4).
- 40. NON-COLLUSION.** JCI warrants, under penalty of perjury, that its proposal was arrived at independently and without collusion aimed at restricting competition. JCI further warrants that at the time it submitted its response to the Customer's RFP an authorized and responsible person executed and delivered to the Customer a valid non-collusive, certification on JCI's behalf.
- 41. SET OFF RIGHTS.** Customer shall have all of its common law, equitable and statutory rights of setoff. These rights shall include, but not be limited to, Customer's option to withhold for the purposes of set-off any moneys due to JCI under this Agreement up to any amounts due and owing to Customer with regard to this Agreement, any other contract with Customer, including any contract for a term commencing prior to the term of this Agreement, plus any amounts due and owing to Customer for any other reason including, without limitation, tax delinquencies, fee delinquencies or monetary penalties relative thereto. Customer shall exercise its set-off rights in accordance with normal Customer practices including, in cases of set-off pursuant to an audit, the finalization of such Customer audit by a State agency, its representatives, or the State Comptroller.
- 42. BOOKS; RECORDS.** JCI shall establish and maintain complete and accurate books, records, documents, accounts and other evidence directly pertinent to performance under this Agreement (hereinafter, collectively the

"Records"). The Records must be kept for the balance of the calendar year in which they were made and for six (6) additional years thereafter or such longer period as may be required by applicable Law. The State Comptroller, the Attorney General, the Commissioner of Education, and any other person or entity authorized to conduct an examination, as well as the agency or agencies involved in this Agreement, shall have access to the Records during normal business hours at an office of JCI within the State of New York or, if no such office is available, at a mutually agreeable and reasonable venue within the State, for the term specified above for the purposes of inspection, auditing and copying. Customer shall take reasonable steps to protect from public disclosure any of the Records which are exempt from disclosure under Section 87 of the Public Officers Law provided that: (i) JCI shall timely inform an appropriate Customer official, in writing, that said Records should not be disclosed; and (ii) said Records shall be sufficiently identified; and (iii) designation of said Records as exempt under the statute is reasonable. Nothing contained herein shall diminish, or in any way adversely affect, either party's right to discovery in any pending or future litigation.


- 43. THIRD PARTY BENEFICIARIES.** This Agreement does not create, and shall not be construed as creating, any rights or interests enforceable by any person not a party to this Agreement.
- 44. CUSTOMER POLICIES.** It is understood and agreed that JCI, its employees, agents, subcontractors and employees of such agents and subcontractors, shall adhere to Customer's policies with respect to conduct on the Customer's property as well as any and all Federal, State, and local laws, rules, ordinances, regulations, Customer's policies and procedures applicable to construction projects on Customer's premises, to the extent such policies are provided to JCI in writing.
- 45. POWER AND AUTHORITY.** Each party represents and warrants to the other that (i) it has all requisite power and authority to execute and deliver this Agreement and perform its obligations hereunder, (ii) all corporate, board, body politic, or other approvals necessary for its execution, delivery, and performance of this Agreement have been or will be obtained, and (iii) this Agreement constitutes its legal, valid, and binding obligation, except as provided in Section 32 hereof.
- 46. SEVERABILITY.** In the event that any clause, provision, or portion of this Agreement or any part thereof shall be declared invalid, void, or unenforceable by any court having jurisdiction, such invalidity shall not affect the validity or enforceability of the remaining portions of this Agreement unless the result would be manifestly inequitable or materially impair the benefits intended to inure to either party under this Agreement.
- 47. COMPLETE AGREEMENT.** It is understood and agreed that this Agreement contains the entire agreement between the parties relating to all issues involving the subject matter of this Agreement. In the event that any of the terms of this Agreement, any schedule, attachment or appendix hereto, except for those terms of Attachment 6 which do not apply to JCI, and except for any scope of work provisions in the RFP, conflict with one another or with the terms of the Customer's RFP for District-wide implementation of Energy Conservation Measures on a Performance Contracting basis, the terms more favorable to Customer shall prevail. Notwithstanding anything to the contrary contained in the RFP or any of the other attachments or appendices hereto, there is no third-party construction manager required at this time. No binding understandings, statements, promises or inducements contrary to this Agreement exist. This Agreement supersedes and cancels all previous agreements, negotiations, communications, commitments and understandings with respect to the subject matter hereof, whether made orally or in writing. Each of the parties to this Agreement expressly warrants and represents to the other that no promise or agreement which is not herein expressed has been made to the other, and that neither party is relying upon any statement or representation of the other that is not expressly set forth in this Agreement. Each party hereto is relying exclusively on the terms of this Agreement, its own judgment, and the advice of its own legal counsel and/or other advisors in entering into this Agreement. Customer acknowledges and agrees that any purchase order issued by Customer associated with this Agreement is intended only to establish payment authority for Customer's internal accounting purposes. No purchase order shall be considered a counteroffer, amendment, modification, or other revision to the terms of this Agreement.
- 48. HEADINGS.** The captions and titles in this Agreement are for convenience only and shall not affect the interpretation or meaning of this Agreement.
- 49. COUNTERPARTS.** This Agreement may be executed in any number of counterparts, all of which when taken together shall constitute one single agreement between the parties.

50. **NOTICES.** All notices or communications related to this Agreement shall be in writing and shall be deemed served if and when mailed by certified or registered mail: to Johnson Controls, Inc. at the address listed on the first page of this Agreement, ATTN: Regional Area General Manager, Performance Infrastructure, with a copy to Johnson Controls, Inc., ATTN: General Counsel – Building Solutions, North America, 507 East Michigan Street, Milwaukee, Wisconsin, 53202: and to Customer by mail or certified mail at the address listed on the first page of this Agreement.


51. **EXECUTION.** A copy of a signature on a facsimile and/or electronic transmission of this Agreement shall have the same force and effect as if it were an original signature.

IN WITNESS WHEREOF, the duly authorized officers or representatives of the Parties have set their hand on the date first written above with the intent to be legally bound.

**BOARD OF EDUCATION OF THE
SOUTH HUNTINGTON SCHOOL DISTRICT**

Signature: 
Printed Name: Nicholas R. Ciappetta
Title: President, Board of Education
Date: June 18, 2020

JOHNSON CONTROLS, INC.

Signature: 
Printed Name: DAVID M. PETERS
Title: REGIONAL V.P. GENERAL MANAGER
Date: JUNE 1, 2020

Construction Management

All work set forth in the Agreement shall be coordinated with the Customer, approved by the Architect as set forth in the Agreement and attachments thereto and be carried out in accordance with this Agreement and all attachments and appendices hereto.

1. JCI will prepare and maintain an overall Project Management Plan and Construction Schedule which shall be provided to the Customer and Architect for approval. Updates will be provided by JCI to the Customer and the Architect on an on-going basis.
2. JCI shall maintain a staff to administer the contract terms and conditions with all project subcontractors.
3. JCI will provide coordination and total supervision of the work of separate ECMs ensuring enforcement of all contract provisions, compliance with energy initiatives, and timely completion of the project. All such work shall be coordinated with the Customer and the Architect and shall further be scheduled and coordinated with any capital improvements undertaken at the District facilities. JCI shall be responsible for scheduling and coordinating all work identified within Schedule 1 with any capital work being undertaken at the Customer's Facilities.
4. JCI shall establish and maintain coordination procedures, including project meetings and documentation process. JCI shall attend all project meetings as required by the Customer and/or the Architect.
5. JCI shall submit a site accessibility plan to the Customer, Architect and contractors/subcontractors to ensure continuous operation of school services and activities. All schedules and site accessibility plans require approval by the Customer and Architect.
6. JCI shall perform all inspection work necessary to assure the conformity to the plans and specifications until final completion and acceptance of the project by the Customer.
7. JCI shall coordinate post-completion activities including the assembly of guarantees, manuals, as-built drawings of all trade and subcontractors, and the Customer's final acceptance with the Architect. JCI shall coordinate training of the Customer's personnel by installers and vendors for the operations of the project with the Customer's Representative and Architect.
8. JCI shall coordinate all aspects of the project with the District-approved Architectural/Engineering firm, H2M Architects & Engineers. H2M will prepare and submit all necessary design work to the New York State Education Department for approval in accordance with the terms of the Agreement between the District and Architect attached hereto at Attachment 6 and Appendix 1, Scope of Architectural Services.
9. JCI and its subcontractors will be required to wear photo identification at all times while on School District property.
10. JCI and its subcontractors shall attend Customer Committee meetings at the request of the Customer, if any, during the construction of the project and meetings related to the District's capital improvement projects being undertaken by the Customer. JCI shall be fully aware of any and all capital improvement projects undertaken by the District which may have an impact on the energy performance project.
11. In addition to the terms set for the herein, Appendix 2, Scope of Construction Services and the General Conditions delineate the terms and conditions of the construction services to be provided by JCI. JCI represents that it is aware of and bound by the terms and conditions of the services as provided said Appendices. Construction phase services will be performed according to the terms and conditions of Appendix 1, Scope of Architectural Services and Appendix 2, Scope of Construction Services.
12. Work will commence upon SED approval and the Customer's receipt of the necessary financing for the project. Hours of work shall be as set forth in paragraph six (6) of this Agreement. All costs incurred by the Customer,

Schedule 2

including overtime costs for District personnel, to make the facilities available during evening and weekends shall be borne solely by JCI.

SCOPE OF WORK

1. **SUMMARY OF WORK:** The following summarizes the Work to be provided by JCI under this Agreement, as further defined below:

ECM #	Energy Conservation Measure	Walt Whitman High School	Memorial Junior High School	Henry L. Stimson Middle School	Silas Wood Sixth Grade Center	Birchwood Intermediate School
ECM 1	Lighting - Interior Retrofit	X	X	X	X	X
ECM 2	Lighting - Exterior Retrofit	X	X	X	X	X
ECM 3	Building Envelope - Weatherization	X	X	X	X	X
ECM 4	Window Film	X	X	X	X	X
ECM 5.1	Energy Management System - Temperature Setback	X	X	X	X	X
ECM 5.2	Energy Management System - Demand Controlled Ventilation	X				
ECM 5.3	Energy Management System - Relief Hood / Gravity Damper Controls			X		
ECM 6	Pumping System - VFD on HW Pumps			X		
ECM 7	Heating System - Boiler Replacement	X	X			X
ECM 8	Heating System - Pipe and Valve Insulation	X	X	X	X	X
ECM 9	Refrigeration Compressor Controllers	X	X	X	X	
ECM 10	Water Conservation	X	X	X	X	X
ECM 11	Refrigerator Equipment Upgrades	X	X			X
ECM 12	Renewable Energy- Photovoltaic Generation	X		X	X	X
ECM 13	Plug Load Controllers	X	X	X	X	X
ECM 14	Vending Machine Controllers	X		X	X	X
ECM 15	Heating System - DHW Replacement		X			
ECM 16	AC Compressor Controllers	X		X		

ECM #	Energy Conservation Measure	Maplewood Intermediate School	Countrywood Primary Center	Oakwood Primary Center	James Kaden Administrative Offices
ECM 1	Lighting - Interior Retrofit	X	X	X	X
ECM 2	Lighting - Exterior Retrofit	X	X	X	X
ECM 3	Building Envelope - Weatherization	X	X	X	X
ECM 4	Window Film	X	X	X	X
ECM 5.1	Energy Management System - Temperature Setback	X	X	X	X
ECM 5.2	Energy Management System - Demand Controlled Ventilation				
ECM 5.3	Energy Management System - Relief Hood / Gravity Damper Controls				
ECM 6	Pumping System - VFD on HW Pumps				
ECM 7	Heating System - Boiler Replacement				
ECM 8	Heating System - Pipe and Valve Insulation	X	X	X	X
ECM 9	Refrigeration Compressor Controllers		X	X	
ECM 10	Water Conservation	X	X	X	X
ECM 11	Refrigerator Equipment Upgrades		X		
ECM 12	Renewable Energy- Photovoltaic Generation		X	X	
ECM 13	Plug Load Controllers	X	X	X	X
ECM 14	Vending Machine Controllers	X	X	X	
ECM 15	Heating System - DHW Replacement				
ECM 16	AC Compressor Controllers				X

GENERAL

All work to be undertaken and performed by JCI shall be performed in strict accordance with all applicable laws, rules, regulations and ordinances in effect at the time of contract signing. In the event that any applicable law, rule, regulation or ordinance is modified between the date of contract signing and the date of installation, JCI shall notify the Customer in writing. The parties shall meet to review such modifications prior to installation to determine whether a contract amendment is deemed necessary. In addition, all work undertaken by JCI shall be in strict accordance with the plans and specifications developed by the District Architect and approved by the SED. All work will be performed by JCI and its subcontractors in a neat and workman like manner.

JCI shall be responsible for all removal, remediation and disposal of hazardous materials/wastes impacted by the scope of work included in this energy performance project, either directly or indirectly in accordance with paragraph 11 and the requirements set forth in the District's RFP. The guaranteed savings for the energy performance project must cover the costs for the removal, remediation and disposal of these hazardous materials/wastes. All necessary abatement work impacted by this scope shall be included.

All work to be performed by JCI under this Agreement shall be certified and signed by the District's Architect of Record before submission to SED. As built drawings, as required and deemed necessary by the Customer and the Customer's Architect shall be provided for the ECMs installed by JCI.

The following scope of work is included in this Agreement and shall be supplied, installed and commissioned by JCI:

ECM 1: Lighting – Interior Retrofit

Johnson Controls will furnish and install energy efficient LED lighting in specified areas in the facilities listed in Attachment 4, Line by Line, by retrofitting the existing fixture with new lamps and/or ballasts or by replacing with new lighting fixtures. Please refer to the detailed lighting survey in Attachment 4 for the retrofit type and locations.

Demolition and Removal Work

Existing lamps, ballasts and fixtures associated with the above-referenced scope of work will be removed and properly disposed according to applicable, laws, rules and regulations.

New Installation Work

Johnson Controls will furnish necessary materials, labor and necessary equipment to complete the above Interior LED Retrofits. No reconfiguration of lighting systems is included. No repair, replacement or upgrade of existing indoor or exterior emergency and/or egress lighting system is included unless otherwise noted in the Scope of Work.

Exclusions:

1. Repair or replacement of defective equipment, other than the equipment specifically described in the ECM description, unless said repair or replacement is required due to the acts or omissions of JCI. Johnson Controls will identify the location of defective equipment and notify Customer in writing.

ECM 2: Lighting – Exterior Lighting

Johnson Controls will furnish and install energy efficient LED lighting in specified areas in the facilities listed in Line by Line either by retrofitting the existing fixture with new lamps and ballasts or by replacing with new lighting fixtures. Please refer to the detailed lighting survey in Attachment 4 for the retrofit type and locations.

Demolition and Removal Work

Existing lamps, ballasts and fixtures associated with the above-referenced scope of work will be removed and properly disposed according to applicable, laws, rules and regulations in effect at the time of SED approval of the Agreement.

New Installation Work

Johnson Controls will furnish necessary materials, labor and necessary equipment to complete the above exterior LED Retrofits. No reconfiguration of lighting systems is included.

Exclusions:

1. Existing poles shall be used. Repair of wiring to or within existing poles is not included in this scope of work. Customer is responsible for said repairs, unless said repair or replacement is required due to the acts or omissions of JCI.
2. Repair or replacement of defective equipment, other than the equipment specifically described in the ECM description, unless said repair or replacement is required due to the acts or omissions of JCI. Johnson Controls will identify the location of defective equipment and notify Customer in writing.

ECM 3: Building Envelope - Weatherization

Johnson Controls shall perform the following weatherization scope. Doors shall be weather-stripped, and caulking be applied around structural leakage, seal the soffit with rigid insulation board. Cracks and openings within the building envelope will be sealed with two-part foam or caulk to prevent the rate of infiltration. New weather-stripping is to be of aluminum mill finish with a grey, brown or white gasket, as specified below.

Birchwood Intermediate School

- 8 Single Doors (4 mill finish w/ grey gasket; 4 white finish w/ white gasket)
- 11 Double Doors (10 mill finish w/ grey gasket; 1 white finish w/ white gasket)
- 891' Seal tectum decking to window header/curtain wall
- 15 Exhaust Fans - Remove unit from curb, seal perimeter of damper to plenum and associated air leaks; lubricate damper

Maplewood Intermediate School

- 8 Single Doors (4 mill finish w/ grey gasket; 4 white finish w/ white gasket)
- 12 Double Doors (10 mill finish w/ grey gasket; 2 white finish w/ white gasket)
- 655' Seal tectum decking to window header/curtain wall
- 12 Remove Unit from curb, seal perimeter of damper to plenum and associated air leaks; lubricate damper

Countrywood Primary Center

- 19 Single Doors (15 mill finish w/ grey gasket; 2 white finish w/ white gasket)
- 11 Double Doors (9 mill finish w/ grey gasket; 2 white finish w/ white gasket)
- 621' Seal soffit with 1" Thermax
- 25 Remove unit from curb, seal perimeter of damper to plenum and associated air leaks; lubricate damper

Oakwood Primary Center

15	Single Doors (11 mill finish w/ grey gasket; 4 white finish w/ white gasket)
9	Double Doors (7 mill finish w/ grey gasket; 2 white finish w/ white gasket)
392'	Seal tectum decking to window header/curtain wall
339'	Seal soffit with 1" Thermax
25	Remove unit from curb, seal perimeter of damper to plenum and associated air leaks; lubricate damper

Silas Wood Sixth Grade Center

8	Single Doors (3 mill finish w/ grey gasket; 5 bronze w/ brown gasket)
7	Double Doors (5 mill finish w/ grey gasket; 2 bronze w/ brown gasket)
375'	Seal soffit with 1" Thermax
14	Remove unit from curb, seal perimeter of damper to plenum and associated air leaks; lubricate damper

Henry L Stimson Middle School

9	Single Doors (mill finish w/ grey gasket)
15	Double Doors (mill finish w/ grey gasket)
1,112'	Seal soffit with 1" Thermax
432'	Seal tectum decking to window header/curtain wall
57	Remove unit from curb, seal perimeter of damper to plenum and associated air leaks; lubricate damper

Walt Whitman High School

13	Single Doors (mill finish w/ grey gasket)
29	Double Doors (mill finish w/ grey gasket)
2	Overhead Doors - Seal perimeter and bottom as needed
1,226'	Main Building – Seal tectum decking to brick/I beam to window header
58	Remove unit from curb, seal perimeter of damper to plenum and associated air leaks; lubricate damper

Memorial Junior High School

4	Single Doors (mill finish w/ grey gasket)
14	Double Doors (mill finish w/ grey gasket)
4	Overhead Doors - Seal perimeter and bottom as needed
45	Remove unit from curb, seal perimeter of damper to plenum and associated air leaks; lubricate damper

James Kaden Administration Office

4	Single Doors (mill finish w/ grey gasket)
4	Double Doors (mill finish w/ grey gasket)
345'	Seal tectum decking to window header/curtain wall (rm 100,102,104,107,108-110,202,305,306,309,311, main bathrooms)
8	Remove unit from curb, seal perimeter of damper to plenum and associated air leaks; lubricate damper

Exclusions:

- Repair or replacement of existing exterior doors and windows is excluded in this scope of work other than as described in the scope of work and unless said repair or replacement is required due to the acts or omissions of JCI. If any doors are found to be inoperable, or windows are found to be broken, JCI will report the deficiency to the Customer for in writing repair or replacement prior to JCI retrofitting the seals.
- Repair or replacement of existing brick or other masonry materials/systems is excluded in this scope of work, unless said repair or replacement is required due to the acts or omissions of JCI.
- The scope of work does not include the repair or installation of any structural systems.

ECM 4: Window Film

Johnson Controls shall furnish and install Vista Low Emissivity series VE 50 CDF window film or JCI Approved equal on inside surface of the perimeter windows as specified in the table below.

Schedule 2

The film will be installed on the interior surface of the perimeter windows that are accessible without the need to disassemble fixtures and/or fixed equipment that blocks reasonable access to the interior surface of the windows/doors.

Customer to remove any obstructions to gain access to the window, scope includes cleaning of only the interior surface of the windows and the installation of the film on said surface.

LOCATION	SQUARE FT.
Walt Whitman High School	20,779
Henry L. Stimson Middle School	9,573
Memorial Junior High School	7,949
Birchwood Intermediate School	5,787
Countrywood Primary Center	8,485
Maplewood Intermediate School	5,398
Oakwood Primary Center	6,217
Silas Wood Sixth Grade Center	5,970
James Kaden Administrative Offices	2,935

Exclusions:

1. Repair or replacement of existing windows is excluded in this scope of work other than as described in scope, unless said repair or replacement is required due to the acts or omissions of JCI. If any windows are found to be broken, JCI will report the deficiency to the customer for repair or replacement prior to JCI applying the film.
2. Repair or replacement of existing brick or other masonry materials/systems is excluded in this scope of work, unless said repair or replacement is required due to the acts or omissions of JCI.
3. The scope of work does not include the repair or installation of any structural systems.

ECM 5.1: Energy Management System - Temperature Setback

Supervisory Controllers

- JCI will provide new web-enabled (JCI FX-80 Niagara) platform network supervisory controller for each building. New and existing points scheduled for migration shall be incorporated in the new supervisory network, including HTML-5 (Java Free) graphics, schedules, alarming and trending of critical system points. Incorporate all functionality of existing systems and additional sequences as required to meet the energy savings guarantee. Provide alarming and trending as specified.
- Network supervisory controllers shall be integrated into a temperature control network running on remote server at owner-specified location.
- Owner IT department to provide addresses and permissions for integration to site LAN and remote connectivity via VPN (or external IP addresses) and that the District will provide and maintain a VPN with access to all site during the project and throughout the warranty period.

Boiler Room Automatic Temperature Control

- Provide new boiler room controllers, panels, and field devices as required to incorporate into the new building automation network equipment planned for installation under the proposed Energy Performance Contract and existing equipment currently connected to the control system that is scheduled to remain in service. Boiler room work shall include warm-up/cool-down, trending, and alarms as required by the Energy Performance contract.
- The existing DX-9100 control panels will be completely replaced with new panels.
- Includes control of existing pumps, mixing valves, steam zone valves, zones and start/stop/status/alarm points for each boiler.
- Install new combustion air dampers in impacted boiler rooms that interlock with boiler and domestic hot water

heater operation.

- The new control panel will include control of the following equipment:
 - Heating/Cooling Pumps: Start-Stop/Status/Fault/Alarm
 - Boilers: Start-Stop/Status/Fault/Alarm
 - Heat Exchangers: Temperature control with unoccupied set back, OA Reset
 - Hot Water Mixing Valves: Temperature control with unoccupied set back, OA Reset
 - Occupancy: Day/Night control for new and existing occupancy zones
 - Zone Valves: Open/close based on occupancy

BUILDING	# OF BOILER ROOMS
Walt Whitman High School	1
Memorial Junior High School	1
Henry L. Stimson Middle School	1
Silas Wood Sixth Grade Center	1
Birchwood Intermediate School	1
Maplewood Intermediate School	1
Countrywood Primary Center	1
Oakwood Primary Center	1
James Kaden Administrative Offices	1

District wide FX Server:

JCI will provide the District with a Johnson FX Server software package that allows single point access to the BMS system. The FX Server also provides for long term storage of alarms and data trends.

ECM 5.2: Energy Management System - Demand Controlled Ventilation

On the units listed below, demand control ventilation strategies will be employed.

Building	Location	Area Served	Fuel / Energy	Equipment	HP	RPM
Walt Whitman High School	Fan Room	Auditorium	Electric	Supply Fan S12	7.5	1150

ECM 5.3: Energy Management System - Relief Hood / Gravity Damper Controls

Johnson Controls shall tie in relief dampers to the facilities' BMS to achieve energy savings.

The following scope of work will be performed:

Relief Hoods & Gravity Dampers

- Provide DDC control for connected relief vents
- Repair or replace damper assemblies as required
- Provide manually activated or schedule control to meet savings guarantee
- Control is to be open/close (not proportional)

Building	Relief Vents
Henry L. Stimson Middle School	5

ECM 6: Pumping System - VFD on HW Pumps

Johnson Controls will install new variable frequency drives (VFD) on the two (2) existing 7.5 HP heating hot water pumps serving the building to better match pumping output to system requirements and reduce the electrical energy waste. The new variable frequency drives that will be installed near the existing motor location and the new VFD control panels will be in the same locations replacing the existing motor control panels.

Building	Equipment Type	Horsepower
Henry L. Stimson Middle School	Heating Hot Water Pump	7.5
Henry L. Stimson Middle School	Heating Hot Water Pump	7.5

New differential pressure sensors will be installed and tied into the Johnson Controls system to regulate the speed of the pump according to load requirements. Provide BMS computer operating displays for new control points, to include pump status, on/off command, speed command, supply/return pressure.

ECM 7: Heating System - Boiler Replacement

Johnson Controls shall remove existing and furnish and install new boilers as outlined below. JCI shall be responsible for all necessary abatement work.

Walt Whitman School

Johnson Controls shall furnish and install three (3) Industrial Steam Boilers ISB-4 Series 4 Pass or equal, 200 HP Field erected Steel Boilers with Power Flame C5-GO-30B Gas/#2 burners and one (1) Power Flame Sync-Matic 3 Boiler Lead/Lag Panel.

Additional work included

- Cold water shall be supplied into existing sump pump. Water valve will be controlled through temperature probe
- Re-pipe existing domestic water between new hot water coil and existing storage tank and replace existing domestic circulating pump.
- Connect existing gas lines to new burners
- Replace existing Oil Feed Pumps

Existing gas detection system shall remain

Birchwood Intermediate School

Johnson Controls shall furnish and install two (2) Industrial Steam Boiler ISB-4 Series 4 Pass or equal, 150 HP Field erected Steel Boilers with Power Flame C5-GO-30B Gas/#2 burners and one (1) Power Flame Sync-Matic two boiler lead/lag panel.

Additional work included

- Furnish and Install fresh air combustion intake fan

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- Cold water shall be supplied into existing sump pump. Water valve will be controlled through temperature probe
- Re-pipe existing domestic water between new hot water coil and existing storage tank and replace existing domestic circulating pump.
- Connect existing gas lines to new burners

Existing gas detection system shall remain

Memorial Junior High School

Johnson Controls shall remove existing boilers and hot water storage tank. Johnson Controls will also properly dispose them with proper asbestos abatement. Furnish and install four (4) Fulton VTG-4000 Dual Fuel Condensing Hydronic Boilers equipped with Powerflame Burners.

Additional work included

- Provide (4) new concrete pads
- Furnish and Install (4) Fresh air combustion intake fans
- Cold water shall be supplied into existing sump pump. Water valve will be controlled through temperature probe
- Connect existing gas lines to new burners
- Furnish and Install eye wash station
- CO Monitor

Impacted Locations

- Assemble and install boiler-burner unit(s) in compliance with manufacturer's installation instructions. Work shall be done in a neat and workman like manner.
- Shall be hydrostatically pressure tested at factory in accordance with ASME requirements.
- Install new make-up regulator and backflow preventer.
- New piping will be installed from the new boilers and tied into the existing header.
- New header isolation valves and boiler non-return valves will be installed.
- New breaching will be installed and sleeved entirely up the existing stack with proper drains and neutralization.
- Piping and appurtenances will be abated within the boiler room and insulated with fiberglass insulation.
- Plant start up and testing will be performed, and a report will be provided.
- On new pipe:
 1. Provide Pipe Supports, Hangers and Brackets
 2. Provide Valve Tags and ID Chart
 3. Provide Pipe Labeling and Directional Arrows

Regulatory Requirements

- Boiler(s) and controls to comply with applicable regulations in effect at the time of installation.
- Provide U.L. labeled burner(s).

Submittals

- Submit shop drawings and product data.
- Submittal packet to include boiler (and burner) manufacturer descriptive literature, installation instructions, operating instructions, and maintenance instructions.

Boiler foundation(s):

- Construct needed support and level concrete foundation(s) where boiler room floor is uneven or will not support the weight of the boiler(s).

Boiler trim:

Electrical components to bear the U.L. label.

Low water cut-off

- Boiler(s) to be furnished with U.L. labeled low water cut-off with ASME working pressure rating equal to the ASME rating of the relief valve.
- Install cut-off according to manufacturer's instructions.
- Locate so burner shuts down if boiler water level falls below allowable safe waterline.
- Boiler primary low water cut-off shall be a float type – auto reset.
- Boiler secondary low water cut-off shall be float or probe – manual reset.

Start-up and Service

- A factory-authorized agent to provide burner light off and adjustment. The start-up agent shall provide a burner light-off report as written proof that the burner was adjusted to optimum performance.
- JCI shall provide a one-year service warranty after start-up.

ECM 8: Heating Distribution System - Pipe & Valve Insulation

Johnson Controls shall install pipe and valve insulation and/or thermal jackets on existing hot water and steam systems to reduce heat loss according to the following table below:

The fiberglass pipe insulation shall be manufactured by Johns Manville or a manufacturer of equivalent type and quality (subject to Customer approval), and with PVC fitting covers where applicable. The removable insulated fiberglass pads on serviceable connections shall be made with Silicone Impregnated Fiberglass Cloth manufactured by GLT Products or a manufacturer of equivalent type and quality (subject to Customer approval).

The following table lists the items that were found to be uninstalled:

Building	Type of Piping/Tank	Location	Quantity	Pipe Material	Line Size Diam. (in)	Length (ft) or Surface Area (sqft)
Birchwood Intermediate School	Gate Valve (Cond.)	Boiler Room	5	Steel	4	
Birchwood Intermediate School	Flange (Steam)	Boiler Room	9	Steel	8	
Birchwood Intermediate School	Bonnet (Steam)	Boiler Room	3	Steel	8	
Birchwood Intermediate School	Gate Valve (Steam)	Boiler Room	1	Steel	6	
Birchwood Intermediate School	Bonnet (Steam)	Boiler Room	1	Steel	6	
Birchwood Intermediate School	Condensate Tank	Boiler Room	1	Steel	2' x 2' x 2'	
Birchwood Intermediate School	Flange (Cond.)	Boiler Room	1	Steel	3	
Birchwood Intermediate School	Condensate Piping	Fan Room	1	Steel	1.25	25
Countrywood Primary Center	Gate Valve (HW)	Boiler Room	8	Steel	5	
Countrywood Primary Center	Flange (HW)	Boiler Room	2	Steel	8	

Schedule 2

Building	Type of Piping/Tank	Location	Quantity	Pipe Material	Line Size Diam. (in)	Length (ft) or Surface Area (sqft)
Countrywood Primary Center	Flange (HW)	Boiler Room	5	Steel	5	
Countrywood Primary Center	Control Valve (HW)	Boiler Room	1	Steel	5	
Countrywood Primary Center	Vapor Separator	Boiler Room	1	Steel	3' x 2'	
Countrywood Primary Center	Gate Valve (HW)	Boiler Room	3	Steel	3	
Countrywood Primary Center	Check Valve (HW)	Boiler Room	3	Steel	2.5	
Countrywood Primary Center	Flex	Boiler Room	1	Steel	2.5	6
Countrywood Primary Center	Flex	Boiler Room	1	Steel	3	6
Countrywood Primary Center	Control Valve (HW)	Boiler Room	2	Steel	2.5	
Countrywood Primary Center	Bonnet (HW)	Boiler Room	5	Steel	2.5	
Maplewood Intermediate School	Gate Valve (Cond.)	Boiler Room	5	Steel	4	
Maplewood Intermediate School	Bonnet (Steam)	Boiler Room	2	Steel	8	
Maplewood Intermediate School	Flange (Steam)	Boiler Room	5	Steel	8	
Maplewood Intermediate School	Butterfly Valve (Steam)	Boiler Room	1	Steel	8	
Maplewood Intermediate School	Bonnet (Steam)	Boiler Room	2	Steel	6	
Maplewood Intermediate School	Butterfly Valve (Steam)	Boiler Room	2	Steel	6	
Maplewood Intermediate School	Strainer (Cond.)	Boiler Room	1	Steel	4	
Maplewood Intermediate School	Gate Valve (Steam)	Boiler Room	1	Steel	8	
Maplewood Intermediate School	Condensate Tank	Boiler Room	1	Steel	2' x 2' x 2'	
Maplewood Intermediate School	Vacuum Cond. Tank	Boiler Room	1	Steel	2' x 1' x 2'	
Maplewood Intermediate School	Condensate Piping	Fan Room	1	Steel	1.25	25
Oakwood Primary Center	Bonnet (Steam)	Boiler Room	1	Steel	8	
Oakwood Primary Center	Gate Valve (Steam)	Boiler Room	2	Steel	8	
Oakwood Primary Center	Flange (Steam)	Boiler Room	13	Steel	8	
Oakwood Primary Center	Flange Cap (Steam)	Boiler Room	1	Steel	8	

Schedule 2

Building	Type of Piping/Tank	Location	Quantity	Pipe Material	Line Size Diam. (in)	Length (ft) or Surface Area (sqft)
Oakwood Primary Center	Flange (Steam)	Boiler Room	3	Steel	4	
Oakwood Primary Center	Bonnet (Steam)	Boiler Room	1	Steel	4	
Oakwood Primary Center	Bonnet (Steam)	Boiler Room	2	Steel	3	
Oakwood Primary Center	Gate Valve (Cond.)	Boiler Room	5	Steel	4	
Oakwood Primary Center	Elbow (Cond.)	Boiler Room	1	Steel	4	1
Oakwood Primary Center	Condensate Piping	Boiler Room	1	Steel	4	1
Oakwood Primary Center	Condensate Tank	Boiler Room	1	Steel	2' x 2' x 2'	
Oakwood Primary Center	Condensate Piping	Fan Room	1	Steel	1.25	25
Silas Wood Sixth Grade Center	Gate Valve (Steam)	Boiler Room	2	Steel	8	
Silas Wood Sixth Grade Center	Elbow (Steam)	Boiler Room	2	Steel	8	1
Silas Wood Sixth Grade Center	Gate Valve (Steam)	Boiler Room	1	Steel	5	
Silas Wood Sixth Grade Center	Gate Valve (Steam)	Boiler Room	1	Steel	6	
Silas Wood Sixth Grade Center	Gate Valve (Steam)	Boiler Room	2	Steel	4	
Silas Wood Sixth Grade Center	Butterfly Valve (Steam)	Boiler Room	1	Steel	4	
Silas Wood Sixth Grade Center	Control Valve (Steam)	Boiler Room	1	Steel	4	
Silas Wood Sixth Grade Center	Condensate Tank	Boiler Room	1	Steel	3' x 2' x 2'	
Silas Wood Sixth Grade Center	Flange (Cond.)	Boiler Room	4	Steel	3	
Silas Wood Sixth Grade Center	Strainer (Cond.)	Boiler Room	1	Steel	3	
Silas Wood Sixth Grade Center	Feed Water Tank	Boiler Room	1	Steel	5' x 2'	
Silas Wood Sixth Grade Center	Butterfly Valve (Steam)	Boiler Room	1	Steel	6	
Silas Wood Sixth Grade Center	Butterfly Valve (Steam)	Boiler Room	1	Steel	5	
Silas Wood Sixth Grade Center	Flange (Steam)	Boiler Room	6	Steel	5	
Silas Wood Sixth Grade Center	Flange (Cond.)	Boiler Room	4	Steel	4	
Henry L. Stimson Middle School	Bonnet (HW)	Boiler Room	6	Steel	4	

Schedule 2

Building	Type of Piping/Tank	Location	Quantity	Pipe Material	Line Size Diam. (in)	Length (ft) or Surface Area (sqft)
Henry L. Stimson Middle School	Flange Cap (HW)	Boiler Room	2	Steel	4	
Henry L. Stimson Middle School	Bottom Water Drum (HW)	Boiler Room	2	Steel	7' x 6"	
Henry L. Stimson Middle School	Bonnet (HW)	Boiler Room	5	Steel	5	
Henry L. Stimson Middle School	Weil McLain Boiler Head	Boiler Room	1	Steel	8	
Henry L. Stimson Middle School	HW Piping	Boiler Room	1	Steel	4	2
Walt Whitman High School	Feed Water Piping	Boiler Room South	1	Steel	4	5
Walt Whitman High School	Gate Valve (Feed)	Boiler Room South	5	Steel	3	
Walt Whitman High School	Bonnet (Feed)	Boiler Room South	4	Steel	3	
Walt Whitman High School	Gate Valve (Cond.)	Boiler Room South	3	Steel	6	
Walt Whitman High School	Bonnet (Steam)	Boiler Room South	6	Steel	10	
Walt Whitman High School	Gate Valve (Steam)	Boiler Room South	1	Steel	10	
Walt Whitman High School	Flange (Steam)	Boiler Room South	10	Steel	10	
Walt Whitman High School	Flange Cap (Steam)	Boiler Room South	1	Steel	10	
Walt Whitman High School	Condensate Tank	Boiler Room South	1	Steel	2' x 2' x 2'	
Walt Whitman High School	Gate Valve (Cond.)	Boiler Room South	1	Steel	3	
Walt Whitman High School	Strainer (Cond.)	Boiler Room South	1	Steel	3	
Walt Whitman High School	DHWH Tank Head	Boiler Room South	1	Steel	16	
Walt Whitman High School	Control Valve (Steam)	Boiler Room South	1	Steel	3	
Walt Whitman High School	Gate Valve (DHW)	Boiler Room South	2	Steel	3	
Walt Whitman High School	Strainer (DHW)	Boiler Room South	1	Steel	3	
Walt Whitman High School	Condensate Tank	Boiler Room North	2	Steel	2' x 2' x 2'	
Walt Whitman High School	Vacuum Cond. Tank	Boiler Room North	2	Steel	1' x 1' x 2'	
Walt Whitman High School	Strainer (Steam)	Boiler Room North	1	Steel	3	
Walt Whitman High School	Control Valve (Steam)	Boiler Room North	1	Steel	3	

Schedule 2

Building	Type of Piping/Tank	Location	Quantity	Pipe Material	Line Size Diam. (in)	Length (ft) or Surface Area (sqft)
Walt Whitman High School	DHWH Tank Head	Boiler Room North	1	Steel	16	
Walt Whitman High School	Gate Valve (Steam)	Boiler Room North	2	Steel	3	
Walt Whitman High School	Steam Piping	Boiler Room North	1	Steel	3	8
Walt Whitman High School	Balancing Valve (DHW)	Boiler Room North	1	Steel	2.5	
Walt Whitman High School	DHW Piping	Boiler Room North	1	Steel	2.5	3
Walt Whitman High School	Bonnet (DHW)	Boiler Room North	2	Steel	3	
Walt Whitman High School	Bottom Water Drum (HW)	Boiler Room North	4	Steel	10' x 6"	
Walt Whitman High School	Bonnet (Cond.)	Boiler Room North	2	Steel	5	
Walt Whitman High School	Gate Valve (Steam)	Boiler Room North	3	Steel	8	
Walt Whitman High School	Flange (Steam)	Boiler Room North	30	Steel	8	
Walt Whitman High School	Bonnet (Steam)	Boiler Room North	1	Steel	6	
Walt Whitman High School	Flange (Steam)	Boiler Room North	2	Steel	6	
Walt Whitman High School	Condensate Piping	Boiler Room North	1	Steel	2.5	21
Walt Whitman High School	Condensate Piping	Boiler Room North	1	Steel	2.5	75
Walt Whitman High School	Condensate Piping	Boiler Room North	1	Steel	1.5	26
Walt Whitman High School	Elbow (Cond.)	Boiler Room North	1	Steel	4	1
Walt Whitman High School	Strainer (Cond.)	Boiler Room North	1	Steel	4	
Walt Whitman High School	Condensate Piping	Boiler Room North	1	Steel	3	20
Walt Whitman High School	Gate Valve (Cond.)	Boiler Room North	4	Steel	1.5	
Walt Whitman High School	Steam Piping	Basement Mechanical Room	1	Steel	2	20
Walt Whitman High School	Condensate Piping	Basement Mechanical Room	1	Steel	1	20
Walt Whitman High School	Steam Piping	Basement Mechanical Room	1	Steel	4	50

Schedule 2

Building	Type of Piping/Tank	Location	Quantity	Pipe Material	Line Size Diam. (in)	Length (ft) or Surface Area (sqft)
Walt Whitman High School	Gate Valve (Steam)	Basement Mechanical Room	1	Steel	3	
Memorial Junior High School	Gate Valve (Hot Water)	Boiler Room	6	Steel	5	
Memorial Junior High School	Hot Water Pipe	Boiler Room	2	Steel	5	2
Memorial Junior High School	Flange (Hot Water)	Boiler Room	13	Steel	5	
Memorial Junior High School	Hot Water Pipe	Boiler Room	1	Steel	3	5
Memorial Junior High School	Flange (Hot Water)	Boiler Room	10	Steel	3	
Memorial Junior High School	Gate Valve (Hot Water)	Boiler Room	2	Steel	3	
Memorial Junior High School	Flange (Hot Water)	Boiler Room	6	Steel	4	
Memorial Junior High School	Hot Water Pipe	Boiler Room	1	Steel	2	10
Memorial Junior High School	Heat Exchanger Head	Boiler Room	1	Steel		2
Memorial Junior High School	Flange (Hot Water)	Boiler Room	37	Steel	8	
Memorial Junior High School	Bonnet (Hot Water)	Boiler Room	4	Steel	8	
Memorial Junior High School	Hot Water Pipe	Boiler Room	1	Steel	8	12
Memorial Junior High School	Gate Valve (Hot Water)	Boiler Room	3	Steel	8	
Memorial Junior High School	Hot Water Pipe (Elbow)	Boiler Room	3	Steel	5	2
Memorial Junior High School	Hot Water Pipe (Elbow)	Boiler Room	1	Steel	3	3
Memorial Junior High School	Gate Valve (Hot Water)	Boiler Room	1	Steel	1	
Memorial Junior High School	Flange (Hot Water)	Boiler Room	2	Steel	3	
Memorial Junior High School	Globe Valve (Hot Water)	Boiler Room	1	Steel	2	
Memorial Junior High School	Hot Water Pipe	Boiler Room	1	Steel	2	3
Memorial Junior High School	Hot Water Pipe	Boiler Room	1	Steel	8	3
James Kaden Administrative Offices	Gate Valve (Hot Water)	Boiler Room	4	Steel	8	
James Kaden Administrative Offices	Gate Valve (Hot Water)	Boiler Room	3	Steel	4	
James Kaden Administrative Offices	Gate Valve (Hot Water)	Boiler Room	2	Steel	2	

Schedule 2

Building	Type of Piping/Tank	Location	Quantity	Pipe Material	Line Size Diam. (in)	Length (ft) or Surface Area (sqft)
James Kaden Administrative Offices	Hot Water Pipe	Boiler Room	1	Steel	4	20
James Kaden Administrative Offices	Hot Water Pipe	Boiler Room	1	Steel	2	20
James Kaden Administrative Offices	Hot Water Pipe	Boiler Room	1	Steel	3	20
James Kaden Administrative Offices	Flange (Hot Water)	Boiler Room	11	Steel	8	
James Kaden Administrative Offices	Tee (Hot Water)	Boiler Room	1	Steel	8	
James Kaden Administrative Offices	Hot Water Pipe	Boiler Room	1	Steel	1.5	4
James Kaden Administrative Offices	Hot Water Pipe	Boiler Room	1	Steel	8	2
James Kaden Administrative Offices	Hot Water Pipe	Boiler Room	1	Steel	10	2
James Kaden Administrative Offices	Flange (Hot Water)	Boiler Room	3	Steel	4	

Exclusions:

1. Repair or replacement of defective mechanical, electrical and controls equipment and electrical distribution system, except the equipment described in the Scope of Work, unless said repair or replacement is required due to the acts or omissions of JCI. (Defective equipment identified by JCI during implementation of the Scope of Work will be brought to the attention of the Customer in writing).

ECM 9: Refrigeration Compressor Controllers

Johnson Controls shall furnish and install (13) thirteen Intelligent Control Systems ICON-2500 controllers on the existing individual compressor units located in the buildings listed below:

Location	No. of Compressors
Countrywood Primary Center	2
Memorial Junior High School	2
Oakwood Primary Center	2
Silas Wood Sixth Grade Center	1
Henry L. Stimson Middle School	2
Walt Whitman High School	4
Total	13

Schedule 2

Building	Location	Area-System Served	Equipment Type	Fuel / Energy Source	Manufacturer	Notes
Countrywood Primary Center	Roof	Walk-In Refrigeration Unit	Refrigeration Compressor	Electric		
Countrywood Primary Center	Roof	Walk-In Refrigeration Unit	Refrigeration Compressor	Electric	Russell	
Oakwood Primary Center	Roof	Walk-In Refrigeration Unit	Refrigeration Compressor	Electric		
Oakwood Primary Center	Kitchen	Walk-In Refrigeration Unit	Refrigeration Compressor	Electric	Copeland	Compressor: 2.75 RLA, Water Cooled
Silas Wood Sixth Grade Center	Kitchen	Walk-In Refrigeration Unit	Refrigeration Compressor	Electric		
Stimson Middle School	Slop Sink Area (Kitchen)	Walk-In Refrigeration Unit	Refrigeration Compressor	Electric		
Stimson Middle School	Slop Sink Area (Kitchen)	Walk-In Refrigeration Unit	Refrigeration Compressor	Electric		
Walt Whitman High School	Kitchen North	Walk-In Refrigeration Unit	Refrigeration Compressor	Electric		
Walt Whitman High School	Boiler Room South	Walk-In Refrigeration Unit	Refrigeration Compressor	Electric	Norlake	Compressor: 7.14 RLA
Walt Whitman High School	Kitchen North	Walk-In Refrigeration Unit	Refrigeration Compressor	Electric		
Walt Whitman High School	Boiler Room South	Walk-In Refrigeration Unit	Refrigeration Compressor	Electric	Norlake	Compressor: 18.6 RLA

Exclusions:

1. Temporary refrigeration. JCI must coordinate with Customer to avoid spoliation of any supplies.
2. Repair or replacement of defective mechanical, electrical and controls equipment and electrical distribution system, except the equipment described in the Scope of Work, unless said repair or replacement is required due to the acts or omissions of JCI. (Defective equipment identified by JCI during implementation of the Scope of Work will be brought to the attention of the Customer in writing).

ECM 10: Water Conservation

Johnson Controls shall furnish and install following scope as part of this measure:

Faucet Flow Restrictors and Showerhead Replacement

- (509) high flow lavatory and classroom faucets will be retrofit with low flow restrictors manufactured by Neoperl
- (27) general purpose handwash faucets will be retrofit with low flow restrictors manufactured by Neoperl
- (8) pre-rinse nozzles will be replaced with new, 1.42 gpm nozzles (T&S Brass)
- (83) showers at Walt Whitman HS will be replaced like for like with low flow showerheads (18 Bradley institutional heads and 65 Niagara Earth Massage standard heads)

For those faucets from which existing aerators cannot be removed without damaging the faucet, a replacement aerator will not be installed. The replacement aerator will be turned over to District with the project's shelf stock.

Tamper resistant aerators will be installed. For faucets that cannot accept a tamper resistant aerator, a regular aerator will be installed.

Sink Pedal Valves

- (22) of the existing sinks will be fitted with new foot pedal valve controls
- The installation includes:
 - Pedal Valve Controls will be lockable in the on position

Water Conservation Retrofits by Building

School	2.0		0.5		2.0		1.5		2.0		0.5		2.5		1.5		No GPM Change	
	Existing	Proposed	Existing	Proposed	Existing	Proposed	Existing	Proposed	Existing	Proposed	Existing	Proposed	Existing	Proposed	Existing	Proposed	Existing	Proposed
Birchwood	45	25	32	32	1	1	2	2	n/a	n/a	6	2						
Maplewood	44	24	38	38	1	1	3	3	n/a	n/a	5	4						
Countrywood	38	38	32	32	1	1	2	2	n/a	n/a	6	0						
Oakwood	48	32	24	24	8	1	2	2	n/a	n/a	2	2						
Silas Wood	35	35	32	32	1	1	3	3	n/a	n/a	5	4						
Stimson	45	45	20	20	1	1	6	6	n/a	n/a	7	4						
Walt Whitman	54	45	0	0	1	1	7	7	83	83	10	1						
Memorial	53	48	29	29	1	1	2	2	n/a	n/a	8	5						
Admin	14	10	0	0	0	0	0	0	n/a	n/a	0	0						
Totals:	376	302	207	207	15	8	27	27	83	83	49	22						

Water Bottle Re-filling Station

Memorial Junior High School

Johnson Controls shall replace exiting wall mounted water fountain in café (Room 504) with new high efficient Water Bottle Refilling Station.

ECM 11: Refrigerator Equipment Upgrades

Johnson Controls shall furnish and install new standalone refrigeration/freezer units with equal capacity.

Building	Units to Replace
Walt Whitman High School	1
Memorial Junior High School	1
Birchwood Intermediate School	1
Countrywood Primary Center	1

The scope of work will be as follows:

- Supply and install kitchen refrigerated standalone units
- Remove and dispose of the existing,
- Tie in electrical feeds
- Start up and check running operation

Exclusions:

1. Temporary refrigeration. JCI must coordinate with Customer to avoid spoliation of any supplies.
2. Relocation of stored food is the responsibility of the Customer.

ECM 12: Renewable Energy – Photovoltaic Electric Generation

Johnson Controls will furnish, install and commission a total of 1,147.20 kW carport/canopy photovoltaic electrical generation systems as detailed in the table below that will interconnect with the existing electrical distribution system at the associated schools.

The following table identifies the PV sizes and installation type at each location:

Locations	Carport / Canopy System (kW-DC)
Walt Whitman High School	267.6
Henry L. Stimson Middle School	346.8
Birchwood Intermediate School	67.2
Countrywood Primary Center	166.8
Oakwood Primary Center	48.0
Silas Wood Sixth Grade Center	250.8
Total	1,147.2

Installation includes the following specifications for Carport, Canopy Systems:

- Carport system to have a minimum height of 14 ft. in roadway areas
- Canopy system to have a minimum height of 10 ft. in non-roadway areas
- Solar Modules to be 72 cell 400-watt JA Solar Customer approved equal
- Solar Inverters to be SMA or Customer approved equal 1500-volt family.
- Solar equipment to be mounted at no less than 10 ft above grade.
- Conduit work up to 10 ft. above grade will be hard wall galvanized.
- Should any new exterior switchgear be required, a 6 ft chain-link fence shall be installed with an access gate.
- New underground conduit to be PVC
- Work to conform to PSEG and regulatory or governmental agencies requirements. JCI is responsible for all costs necessary to conform to these requirements.
- Carport/Canopy Racking system, including hardware and module mounting hardware to be engineered carport/canopy structure to support PV modules.
- New members and hardware are galvanized steel with Columns and Top Beams hot dipped to ASTM A123 and purlins pre-galvanized to a G140 minimum. Module hardware is stainless steel.
- New member connections shall be bolted. No on-site welding shall be required or undertaken without the prior written permission of the District and its Architect.
- Parking lot restoration in affected areas to be saw cut and hot patched to match existing surface conditions.
- Columns to be set directly on concrete piers with chemical anchors or wet set anchor bolts.
- Temporary fencing, barricades, or storage trailers necessary to secure site.
- Disposal of soil/spoil created from the foundation installation is included. JCI shall undertake necessary soil testing and properly dispose of soil at its cost and expense in accordance with all applicable laws, rules, regulations and codes.
- Grounding hardware for modules and racking
- Module grounding to be per module manufacturer's installation instructions.

- Base design includes pre-punched holes in the purlin for wire management.
- Electrical Underwriters Certificate.
- Electrical installation to be installed as per the NEC 2014 code, as amended and updated.
- Electrical conduit will be installed outside of concrete piers and/or baseplates.
- JCI will provide a web-based dashboard for PV production for students and staff to use and access.
- District to support monitoring by supplying an IT drop to a gateway location and all necessary IP addresses that the District will maintain for 18 years.
- SED approved system design drawings shall be prepared by the Customer's Architect of Record.

In the event that any of the parking lots are determined to be unsuitable for carport or canopy PV arrays, Johnson Controls will attempt to move the arrays or portions of the arrays to another location that is suitable at any of the other buildings outlined above, subject to all necessary review and approvals and written approval of the Customer.

If during the design phase the architect / engineer of record, H2M, encounter structural issues, geo-tech issues, drainage issues, septic system issues with any of parking lots and walkways, JCI shall relocate the problem areas of solar arrays to a different location in order to maintain the 1,147.2 kW DC of total system size. JCI shall be fully responsible for coordinating its work with ongoing capital work at the Customer's facilities, including parking lot and walkways installations.

In the event that any of the proposed locations are determined to not be a viable option, the scope of work for this ECM shall be reduced subject to all necessary approvals, including Customer's written approval by amendment and the costs associated with the reduced scope shall be credited to the Customer. The guaranteed savings shall also be adjusted accordingly by a formal written amendment to the Agreement. All adjustments require Customer's written approval and must maintain a positive cash flow as set forth in the contract documents.

The weather station monitoring is included through the web based dashboard as long as the internet IP address is maintained. The weather station includes a pyranometer at each location, one at each of the 6 schools. The irradiance value will be trended and logged into the cloud for 10 years. At the end of the 10 years, the Customer can elect to renew the monitoring service at an additional cost.

Power to the building will be temporarily shut down by the utility for up to four (4) hours during the tie-in. Coordination with the District will be required at the time of the tie-in.

Exclusions:

1. Repair or replacement of defective electrical equipment and electrical distribution system, except the equipment described in the Scope of Work, unless said repair or replacement is required due to the acts or omissions of JCI. (Defective equipment identified by JCI during implementation of the Scope of Work will be brought to the attention of the Customer in writing).
2. Temporary power during tie-in, except JCI shall supplement the existing system at the Customer's facilities if needed to maintain no disruption to power supply.

ECM 13: Plug Load Controllers

Johnson Controls shall furnish and install 436 plug load management controllers that will gain control of specified plug load equipment listed below. The system will use an existing Wi-Fi network that will communicate to an energy management user interface. Through the user interface, equipment shall be monitored, scheduled and turned on / off. In areas where no Wi-Fi connection exists, plugs shall be programmed with the intended schedule for the equipment.

Building	Copier	Window AC	Water Fountain
Birchwood Intermediate School		35	1
Countrywood Primary Center		29	1
James Kaden Administrative Offices	9	17	2
Maplewood Intermediate School	3	32	1

Memorial Junior High School	1	59	2
Oakwood Primary Center	4	21	1
Silas Wood Sixth Grade Center	1	32	3
Henry L. Stimson Middle School		50	1
Walt Whitman High School	10	114	7
Total	28	389	19

Following is the scope of work for the plug load controllers:

- Provide plug load control devices as per final schedule of outlets
- Install and connect devices
- Load and configure software on an owner designated head custodian PC
- Start, test, and checkout the system

Exclusions:

1. Repair or replacement of defective plug load equipment, and the electrical distribution system and components, unless said repair or replacement is required due to the acts or omissions of JCI. (Defective equipment identified by JCI during implementation of the Scope of Work will be brought to the attention of the Customer in writing).

ECM 14: Vending Machine Controllers

Johnson Controls shall furnish and install eighteen (18) vending machine controllers, VM170, on the districts vending machines as outlined below:

Building	Count
Birchwood Intermediate School	1
Countrywood Primary Center	1
Maplewood Intermediate School	1
Oakwood Primary Center	1
Silas Wood Sixth Grade Center	4
Stimson Middle School	4
Walt Whitman High School	6
Total	18

Exclusions:

1. Repair or replacement of defective vending machines, and the electrical distribution system and components, unless said repair or replacement is required due to the acts or omissions of JCI. (Defective equipment identified by JCI during implementation of the Scope of Work will be brought to the attention of the Customer in writing).

ECM 15: Heating System - DHW Replacement

Johnson Controls shall furnish and install one (1) AO Smith Model BTH 250, gas fired condensing domestic hot water heater at Memorial Junior High School. This will be installed prior to demolition of the boiler plant in order to provide domestic hot water to the building during the boiler replacement process.

- Remove existing domestic storage tank and pumps including asbestos abatement as needed to complete the work

- Install new hot water heater next to chimney
- Provide Pipe Supports, Hangers and Brackets
- Provide two (2) Replacement Re-circulation Bronze Pumps (DHW)
- Provide two (2) Domestic Hot Water 3 Way Mixing Valves
- Seal and fireproof new penetrations
- Furnish and install piping required.
 - Provide Valve Tags and ID Chart
 - Provide Pipe Labeling and Directional Arrows
 - Insulate new piping
 - Provide Required Electrical Control Wiring for circulator pumps

ECM 16: AC Compressor Controllers

Johnson Controls shall furnish and install (9) nine Intelligent Control Systems ICON-2400 controllers on the existing individual compressor units located in the buildings listed below:

Location	No. of Compressors
James Kaden Administrative Offices	1
Henry L. Stimson Middle School	4
Walt Whitman High School	4
Total	9

Building	Location	Equipment Type	Fuel / Energy Source	Equipment Name	Manufacturer	Model Number	Notes
Henry L. Stimson Middle School	Roof	Rooftop Unit	Electric	RTU	Trane	TCD301C40ACA	Compressors x2: 18.3 RLA ea.
Henry L. Stimson Middle School	Roof	Rooftop Unit	Electric	RTU	Trane	TCD241C400CA	Compressors x2: 16.1 RLA ea.
James Kaden Administrative Offices	Roof	Rooftop Unit	Electric	RTU	Carrier	50HJ008511AA	Compressor: 13.5 RLA
Walt Whitman High School	Roof	Rooftop Unit	Electric	RTU	Lennox	CHA163113P	Compressor: 14.7 RLA
Walt Whitman High School	Roof	Rooftop Unit	Electric	RTU	McQuay	ALP090CY12	Compressors x2: 135 RLA ea.
Walt Whitman High School	Roof	Rooftop Unit	Electric	RTU	Trane	THC060F3R0A1I	Compressor: 15.9 RLA

ASSURED PERFORMANCE GUARANTEE

A. Certain Definitions

For purposes of this Agreement, the following terms have the meanings set forth below:

Annual Project Benefits are the portion of the projected Total Project Benefits to be achieved in any one year of the Guarantee Term.

Annual Project Benefits Realized are the Project Benefits actually realized for any one year of the Guarantee Term.

Annual Project Benefits Shortfall is the amount by which the Annual Project Benefits exceed the Annual Project Benefits Realized in any one year of the Guarantee Term.

Annual Project Benefits Surplus is the amount by which the Annual Project Benefits Realized exceed the Annual Project Benefits in any one year of the Guarantee Term.

Baseline is the mutually agreed upon energy consumption data, weather data and operating conditions data that reflect conditions prior to the installation of the Improvement Measures as set forth in Section 6VI below.

Base Line Model illustrates the relationship(s) of consumption of each utility to independent variables (such as weather and building operating conditions) during a representative pre-retrofit tuning period.

Adjusted Base Line estimates post-retrofit utility consumption using the same Regression Analysis Calculation as shown on this Schedule 2 plus any modifications. The Adjusted Base Line represents an estimate of utility consumption had no ECMs been implemented under current weather and building operating conditions.

Model Tuning is the process of tuning the baseline model coefficients using actual pre-retrofit operating data so that the baseline model is a better function of weather and building operating conditions.

Tuning Period is the period whose weather and building operating conditions data is used for model tuning.

Guarantee Term will commence on the first day of the month next following the Substantial Completion date and will continue for eighteen (18) years.

Guarantee Period is eighteen (18) years or the useful life of the equipment being installed pursuant to this Agreement.

M&V Services means the services performed to monitor and report the performance relative to the guarantee defined in the Assured Performance Guarantee set forth in Schedule 2, subject to earlier termination as provided in this Agreement.

Installation Period is the period beginning on JCI's receipt of Customer's Notice to Proceed and ending on the commencement of the Guarantee Term.

Measured 'ECM' Savings are the utility savings and cost avoidance calculated in accordance with the methodologies set forth in Schedule 2, Exhibit 2 below.

'Operation and Maintenance' Savings are the O&M savings that is submitted to SED and will be verified on a one time basis during the first performance year, except in the event of failure to meet the Option C requirements in Year 1, in which case it need to be verified in subsequent years until Option C requirements are fully achieved.

Guaranteed Rebate Project Benefits are rebate dollars offered through the local utility for installing energy efficient equipment and guaranteed by JCI as set forth in Exhibit 4.

Project Benefits are the Measured Project Benefits plus the Operational and Maintenance Project Benefits to be achieved for a particular period during the term of this Agreement. M&V Services for the first five years shall be provided at no cost to the District.

Total Project Benefits are the Project Benefits to be achieved during the entire term of this Agreement.

B. Guarantee Details

The following Exhibits are attached and made part of this Schedule 2, Section B:

Table 2.1.1: Exhibits Summary

Exhibit 1	Total Project Benefits
Exhibit 2	Measurement and Verification Methodologies
Exhibit 3	Measured Project Benefits
Exhibit 4	Operational Cost Avoidance and Guaranteed Rebate Project Benefits
Exhibit 5	Change in Use or Condition
Exhibit 6	Baseline Calculations and Utility Rates
Exhibit 7	Primary Operations Schedules Pre & Post Retrofit
Exhibit 8	Measurement and Verification Services

EXHIBIT 1: Total Project Benefits

Subject to the terms and conditions of this Agreement, JCI guarantees that Customer will achieve a total of \$15,002,805 in Measured Project Benefit (Utility Cost Avoidance), \$2,605,284 in Operations and Maintenance Cost Avoidance Savings and \$174,750 in Guaranteed Energy Rebates during the term of this Agreement, for Total Guaranteed Project Benefits of \$17,782,839 as set forth in the Total Project Benefits Table below.

Table 2.1.2: Total Project Benefits

Year	Utility Cost Avoidance ¹	Operations & Maintenance Cost Avoidance ²	Guaranteed Energy Rebate-Non Recurring Savings ³	Total Guaranteed Project Benefits
1	\$700,663	\$144,738	\$174,750	\$1,020,150
2	\$714,676	\$144,738		\$859,414
3	\$728,969	\$144,738		\$873,707
4	\$743,549	\$144,738		\$888,287
5	\$758,420	\$144,738		\$903,158
6	\$773,588	\$144,738		\$918,326
7	\$789,060	\$144,738		\$933,798
8	\$804,841	\$144,738		\$949,579
9	\$820,938	\$144,738		\$965,676
10	\$837,357	\$144,738		\$982,095
11	\$854,104	\$144,738		\$998,842
12	\$871,186	\$144,738		\$1,015,924
13	\$888,610	\$144,738		\$1,033,348
14	\$906,382	\$144,738		\$1,051,120
15	\$924,509	\$144,738		\$1,069,247
16	\$943,000	\$144,738		\$1,087,738
17	\$961,860	\$144,738		\$1,106,598
18	\$981,097	\$144,738		\$1,125,835
Totals	\$15,002,805	\$2,605,284	\$174,750	\$17,782,839

¹ Utility Cost Avoidance is a Measured Project Benefit. Utility Cost Avoidance figures in the Table above are based on anticipated 2% increase in unit energy costs as set forth in the Tables at Exhibit 2.6.1 and 2.6.2.

²Operational and maintenance cost avoidance figures in the table above are based on anticipated 0% increase of material cost.

³See Exhibit 4 for rebate source.

Annual Measurement and Verification (M&V) Services

JCI shall provide M&V Services for a period of five (5) years starting on the first day of the month next following the Substantial Completion date and any other period requested by Customer in writing for years 6-18. Within sixty (60) days of the commencement of the Guarantee Term, JCI will calculate the Measured Project Benefits achieved during the Installation Period. Any Project Benefits achieved during the Installation Period shall inure to the benefit of the Customer and shall not be allocated to any subsequent year of the Guarantee Term. Within sixty (60) days of each anniversary of the commencement of the Guarantee Term, for so long as the M&V Services Period is in effect, JCI will calculate the Measured Project Benefits achieved for the applicable year plus any Operational and Maintenance Cost Avoidance and advise the Customer of the same in writing. JCI agrees to provide a presentation of the Annual

Measurement & Verification Report to the Customer at a public meeting annually for five years at the request of the Customer.

As set forth in the Certification provided by JCI to the NY State Education Department, JCI guarantees recovery of costs of the Agreement from energy savings realized by the Customer during a period of 18 years after Substantial Completion.

Customer acknowledges and agrees that if, for any reason during the initial M&V Services Period of five (5) years and any renewal period authorized by the Customer in years 6-18, after Option C methodology for thermal measures has been achieved to substantiate and prove guaranteed savings, it (i) cancels or terminates receipt of M&V Services, or (ii) cancels or terminates this Agreement, it shall be assumed (in accordance with Option A and Option B of the North American Energy Measurement and Verification Protocol (NEMVP), and based upon the equipment continuing to operate in accordance with specified criteria) that the Annual Project Benefits will be met during each year of the Guarantee Period.

Customer further acknowledges and agrees that if, for any reason, it (i) fails to pay for M&V Services in accordance with Schedule 4 – Price and Payment Terms, (ii) fails to fulfill any of Customer's responsibilities necessary to enable JCI to complete the Work and provide the M&V Services, including but not limited to Customer's failure to operate and maintain the equipment and/or systems pursuant to manufacturer instructions provided by JCI, or (iii) otherwise materially breaches this Agreement, JCI shall issue a written notice to the Customer stating the nature of the alleged breach and shall provide Customer with a twenty (20) day period to cure such breach. If the Customer fails to cure such breach within such twenty (20) day period, Customer acknowledges and agrees that the Assured Performance Guarantee shall automatically terminate.

C. Project Benefits Shortfalls or Surpluses.

During the period in which JCI is providing M&V Services, the following shall apply:

- (a) ***Project Benefits Shortfalls.*** If an Annual Project Benefits Shortfall occurs for any one year of the Guarantee Term, JCI shall (a) pay to Customer the amount of such shortfall, or (b) subject to Customer's written agreement, provide to Customer additional products or services, in the value of such shortfall, at no additional cost to Customer in accordance with all applicable laws, rules, codes and regulations.
 - (b) ***Project Benefits Surpluses.*** If an Annual Project Benefits Surplus occurs for any one year of the Guarantee Term, the surplus, in its entirety, shall inure to the benefit of the Customer and shall not be applied to any shortfall during any year of the Guarantee Term. In addition, any savings achieved during the installation phase shall inure solely to the benefit of the Customer.
- (2) Following the conclusion of the M&V Services Period, the following shall apply:
- (a) If the Annual Project Benefits are met in each year during the period that M&V Services are provided, it shall be assumed (in accordance with Option A and Option B of the NEMVP, and based upon the equipment continuing to operate in accordance with specified criteria) that the Annual Project Benefits will be met during each year of the Guarantee Period.
 - (b) If there is an Annual Project Benefits Shortfall in any one year during the period that M&V Services are provided and such Shortfall is the result of the equipment not operating in accordance with specified criteria, then Customer shall allow JCI access to the property to conduct repairs or make adjustments to the equipment as necessary to resolve the cause of the Shortfall. Once the cause of the Shortfall is resolved and payment of the shortfall is received by the Customer, it shall be assumed (based upon the equipment continuing to operate in accordance with the specified criteria) that the Annual Project Benefits will be met during each year of the Guarantee Period. If the Shortfall continues to exist notwithstanding the equipment operating in accordance with the specified criteria, JCI shall pay the amount of the Shortfall to Customer from the time the Shortfall occurred through the remainder of the Guarantee Period.
 - (c) If there is an Annual Project Benefits Shortfall in any one year during the period that M&V Services are provided and such Shortfall is not the result of the equipment not operating in accordance

Schedule 2

with specified criteria, then JCI shall pay the amount of the Shortfall to Customer from the time the Shortfall occurred through the remainder of the Guarantee Period.

All payments to Customer for any Shortfall shall be payable to Customer in the form of a certified check.

EXHIBIT 2: Measurement and Verification Methodologies

The following is a brief overview of the measurement and verification methodologies applicable to the Improvement Measures set forth below. JCI shall apply these methodologies, as more fully detailed in the guidelines and standards of the North American Energy Measurement and Verification Protocol (NEMVP), in connection with the provision of M&V Services hereunder.

2.1 Summary of M&V Methodologies for the Project:

- Guarantee Year 1 project benefits will be calculated using NEMVP Option-C methodology for thermal and Option A & B for all electric ECMs. Table 2.2.1 shows the M&V Option that will be applied to each ECM during Guarantee Year 1, except as otherwise stated below relative to Option C.
- Construction period project benefits and guarantee Year 2-18 project benefits will be calculated using NEMVP Option A/B methodology as shown in Table 2.2.2 shows the M&V details, except as otherwise stated below relative to Option C. For avoidance of doubt, the construction period projects benefits inure to the benefit of the Customer and are not included in the Guaranteed Savings.
- In the event of a shortfall during Year 1, the Option C M&V for thermal measures (as detailed in Schedule 2 Section 2) will be extended into Year 2. The foregoing shall apply in subsequent years until the Guaranteed Savings is achieved under Option C for thermal measures. After guaranteed savings are achieved and verified using Option C methodology for thermal measures, all future guarantee reconciliations will be done using Option A and Option B M&V methodology (as detailed in Schedule 2 Exhibit 2).

Table 2.2.1: Summary of M&V Options for Calculating Guarantee Year 1 Project Benefits

ECM #	Proposed Measures	Electricity Savings			M&V Option	Thermal Savings		M&V Option	Total Savings
		kW	kWh/yr	\$/yr		MMBtu/yr	\$/yr		\$/yr
ECM 1	Lighting - Interior Retrofit	321	920,677	\$173,908	A	(2,045)	(\$17,663)	C	\$156,244
ECM 2	Lighting - Exterior Retrofit	0	91,837	\$13,567	A	0	\$0		\$13,567
ECM 3	Building Envelope - Weatherization	0	3,696	\$553	A	2,791	\$24,307	C	\$24,860
ECM 4	Window Film	0	43,414	\$6,446	A	7,597	\$65,756	C	\$72,202
ECM 5.1	Energy Management System - Temperature Setback	0	0	\$0		7,908	\$68,885	C	\$68,885
ECM 5.2	Energy Management System - Demand Controlled Ventilation	0	6,623	\$944	B	1,247	\$10,495	C	\$11,438
ECM 5.3	Energy Management System - Relief Hood / Gravity Damper Controls	0	2,080	\$308	B	402	\$3,503	C	\$3,811
ECM 6	Pumping System - VFD on HW Pumps	0	19,500	\$2,885	A	0	\$0		\$2,885
ECM 7	Heating System - Boiler Replacement	0	0	\$0		6,001	\$50,704	C	\$50,704
ECM 8	Heating System - Pipe and Valve Insulation	0	0	\$0		1,158	\$10,024	C	\$10,024
ECM 9	Refrigeration Compressor Controllers	0	12,640	\$1,848	A	0	\$0		\$1,848
ECM 10	Water Conservation	0	163	\$24	A	2,167	\$18,586	C	\$18,610
ECM 11	Refrigerator Equipment Upgrades	0	38,791	\$5,705	A	0	\$0		\$5,705
ECM 12	Renewable Energy- Photovoltaic Generation	0	1,454,452	\$215,934	B	0	\$0		\$215,934
ECM 13	Plug Load Controllers	0	234,272	\$34,803	A	0	\$0		\$34,803
ECM 14	Vending Machine Controllers	0	20,742	\$3,101	A	0	\$0		\$3,101
ECM 15	Heating System - DHW Replacement	0	0	\$0		281	\$2,343	C	\$2,343
ECM 16	AC Compressor Controllers	0	25,782	\$3,697	A	0	\$0		\$3,697
	Totals	321	2,874,668	\$463,724		27,508	\$236,939		\$700,663

Table 2.2.2: Summary of M&V Options for Calculating Construction Period and Guarantee Years 2-18 Project Benefits

ECM #	Proposed Measures	Electricity Savings			Thermal Savings		Total Savings	M&V Option
		kW	kWh/yr	\$/yr	MMBtu/yr	\$/yr	\$/yr	
ECM 1	Lighting - Interior Retrofit	321	920,677	\$173,908	(2,045)	-\$17,663	\$156,244	A
ECM 2	Lighting - Exterior Retrofit	0	91,837	\$13,567	0	\$0	\$13,567	A
ECM 3	Building Envelope - Weatherization	0	3,696	\$553	2,791	\$24,307	\$24,860	A
ECM 4	Window Film	0	43,414	\$6,446	7,597	\$65,756	\$72,202	A
ECM 5.1	Energy Management System - Temperature Setback	0	0	\$0	7,908	\$68,885	\$68,885	B
ECM 5.2	Energy Management System - Demand Controlled Ventilation	0	6,623	\$944	1,247	\$10,495	\$11,438	B
ECM 5.3	Energy Management System - Relief Hood / Gravity Damper Controls	0	2,080	\$308	402	\$3,503	\$3,811	B
ECM 6	Pumping System - VFD on HW Pumps	0	19,500	\$2,885	0	\$0	\$2,885	A
ECM 7	Heating System - Boiler Replacement	0	0	\$0	6,001	\$50,704	\$50,704	A
ECM 8	Heating System - Pipe and Valve Insulation	0	0	\$0	1,158	\$10,024	\$10,024	A
ECM 9	Refrigeration Compressor Controllers	0	12,640	\$1,848	0	\$0	\$1,848	A
ECM 10	Water Conservation	0	163	\$24	2,167	\$18,586	\$18,610	A
ECM 11	Refrigerator Equipment Upgrades	0	38,791	\$5,705	0	\$0	\$5,705	A
ECM 12	Renewable Energy- Photovoltaic Generation	0	1,454,452	\$215,934	0	\$0	\$215,934	B
ECM 13	Plug Load Controllers	0	234,272	\$34,803	0	\$0	\$34,803	A
ECM 14	Vending Machine Controllers	0	20,742	\$3,101	0	\$0	\$3,101	A
ECM 15	Heating System - DHW Replacement	0	0	\$0	281	\$2,343	\$2,343	A
ECM 16	AC Compressor Controllers	0	25,782	\$3,697	0	\$0	\$3,697	A
	Totals	321	2,874,668	\$463,724	27,508	\$236,939	\$700,663	

The savings numbers shown in the above table are at baseline utility rate levels with no escalation. Appropriate annual escalation (as outlined in Exhibit 4) will be applied when calculating savings for Years 2-18.

2.2 Details of M&V Methodologies for the Project:

2.2.1 NEMVP Option C M&V Plan:

NEMVP Option C

Industry standard NEMVP Option C Methodology of Calculating Savings will be applied. Option C involves use of utility meters or whole building sub-meters to assess the energy performance of a total building. Option C assesses the impact of any type of Improvement Measure, but not individually if more than one is applied to an energy meter. This option determines the collective Measured Project Benefits of all Improvement Measures applied to the part of the facility monitored by the energy meter. Also, since whole building meters are used, Measured Project Benefits reported under Option C include the impact of any other change made in facility energy use (positive or negative).

Guaranteed savings for Option C measures will be verified using Metrix software and manual calculations, as applicable. Metrix will be used to normalize guarantee period consumption against baseline consumption using weather data. The process to record changes in building use and the customer responsibilities are detailed in the Schedule 3.

Table 2.2.1.1: Option C Measures (For Guarantee Year 1 Thermal Savings)

ECM #	Proposed Measures	M&V Option
ECM 3	Building Envelope - Weatherization	C
ECM 4	Window Film	C
ECM 5.1	Energy Management System - Temperature Setback / Optimal Start	C
ECM 5.2	Energy Management System - Demand Controlled Ventilation	C
ECM 5.3	Energy Management System - Relief Hood / Gravity Damper Controls	C
ECM 7	Heating System - Boiler Replacement	C
ECM 8	Heating System - Pipe and Valve Insulation	C
ECM 10	Water Conservation	C
ECM 15	Heating System - DHW Replacement	C

2.2.1. Option C Calculation Methodology

A. Overview

In order to accurately calculate energy-related savings under this Agreement, it is necessary to be able to make comparisons of pre-retrofit and post-retrofit conditions under similar terms. To do this, Base Lines are established (Schedule 2, Section IV – Baseline Information) to document pre-retrofit conditions and serve as the basis for post-retrofit analysis.

The following methodology will be used to calculate energy-related unit Savings:

- a. The software program applies base line data for the specified “tuning period” to the regression calculation detailed in below Section B - 1(c) and 1(d).
- b. The program establishes a relationship between utility consumption or demand and the independent variable(s) (e.g. HDD, CDD, etc.). Coefficient(s) of consumption per unit will be tuned and documented for variables where such a relationship can be established.

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c. During the post retrofit period, the pre-retrofit coefficients and the post retrofit variable data will be applied to the regression calculation to adjust for differences in conditions. This will give an adjusted base line which represents what would have been consumed had no facility improvement measures been implemented.

d. The units saved are equal to this adjusted base line minus the actual consumption for the billing period.

The regression analysis methodology used in this agreement is capable of making adjustments for changes in base load, heating degree-days, cooling degree-days, and up to three other variables.

B. Application of Regression Analysis Calculation

Regression Analysis is the means by which the relationship(s) between utility consumption and other variables is determined. The relationships documented on this schedule were established using a utility accounting software program. Following is the equation utilized to both establish the Base Line and serve as the basis for post-retrofit analysis:

The inputs and outputs to the equation vary depending on whether the equation is being applied to the pre-retrofit tuning period or the post retrofit tracking period. Once the coefficients B, D_H , D_i , and the base temperature T_{BH} have been obtained by regression, they remain fixed and are used to derive adjusted meter consumption for all future time periods.

$$E = B \cdot \Delta t + D_H \cdot HDD(T_{BH}) + D_i \cdot U_i$$

where:

- E = Adjusted Base Line Consumption throughput through meter. During the post retrofit period this value represents what the consumption would have been under current conditions (weather, etc.) had no Facility Improvement Measures (ECMs) been implemented.
- B = Base load consumption per unit of time (Utility Units/day), that part of the meter consumption that is independent of (cannot be correlated to) any of the independent variables, including the degree-days. This consumption will be present no matter what the weather conditions or other independent variables are. This fixed value, dependent only on the number of days in the period being evaluated, is determined when defining the Base Line.
- Δt = Time interval (days) in analysis period.
- D_H = Coefficients for Heating Degree-days (Utility units/deg-day). These fixed values, which are determined when defining the Base Line, define the sensitivity of consumption to changes in weather.
- HDD = Heating degree-days (°F-day) for the period being analyzed;
- T_{BH} = Heating degree-day base (or balance point) temperatures (°F or °C) upon which the HDD values are derived. These balance point temperatures represent the outdoor air temperature at which utility consumption or demand begins to react to any further change in outdoor temperature. When outdoor air temperature is equal to balance point temperature heat loss = heat gain.
- D_i = Coefficients for user defined variable I (I=1,2,3 for any one meter). These coefficients (or relationships) are determined when defining the Base Line.
- U_i = Value of independent user variable I (I=1,2,3 for any one meter) for the period being analyzed.

The main variables in the project are, but not limited to, HDD, building operating hours and HVAC setpoints.

C. Base Line Model Calculations

Following is a summary of how a Base Line Model is developed:

- (1) **Model Tuning** – Additional model tuning data (equipment usage, plug load usage, building operating hours, heating degree days and wind velocity data) will be collected after the execution of the contract (but before the project retrofit) for purposes of tuning the Metrix model.
- (2) **Identify Relationships of Consumption to Independent Variables** - The Regression Analysis Calculation shown in section 1(c) or 1(d) is then applied to each individual utility item during the selected Tuning Period against one or more independent variables. The resultant relationship(s) of utility consumption as a function of time, weather, and other independent variable(s) is represented by the Regression Analysis Calculation as shown on this schedule.

D. Modifications to the Base Line Model

A modification is made up of# of units to be applied, a time period to apply the units, and a description of why the modification is being applied.

(1) Annual Periodic Modifications: Annual Periodic Modifications are used to adjust the base line consumption for anomalies that occurred during the Tuning Period because of operational procedures or abnormal conditions that occurred. These “out of line” consumption periods cause the regression equation to over or under predict consumption. A modification helps to fit the equation’s predicted value to the actual value that occurred during the tuning period. Future consumption can be predicted with a high degree of confidence once the predicted and actual tuning period consumption is matched properly. Annual Periodic Modifications for the Project are identified on this schedule.

(2) Additional Modifications: During the term of the Agreement, it may also be necessary to make modifications to the base line, as a result of physical or operational changes within the premises that are beyond the agreed upon conditions as shown on this schedule and as implied by the base line values of any independent user variable as defined in this schedule. The savings impact due to baseline modifications will be calculated using a combination of engineering savings calculation outlined in the DEA and industry standard engineering calculations, as applicable.

E. Utility Cost Savings

For each time period being evaluated, an Adjusted Base Line is calculated by performing the Regression Analysis and applying to it any necessary modifications. This Adjusted Base Line represents the utility consumption that would have occurred if the retrofits had not been implemented. Guarantee period actual savings is the difference between the Adjusted Base Line consumption and the actual post-retrofit consumption for the same period. During the guarantee period, the guaranteed savings will be adjusted for factors that are out of JCI’s control such as weather variations and changes in non-routine factors such as building operation and building foot print. This adjusted guaranteed savings will be the target for that guarantee year as required in this Agreement. The savings adjustment will be determined using industry standard savings calculation. The guarantee period actual savings will be compared with target guaranteed savings to reconcile the project savings guarantee. All adjustments are subject to review and approval of the Customer and its Engineer.

The method of selecting unit costs is documented on Schedule 2 Exhibit 3 and will be used throughout the guarantee period.

F. Miscellaneous Adjustments

4a. The various obligations and commitments undertaken by JCI in this Agreement are based in part on the assumption that Customer’s facilities are and will remain in full compliance with all applicable building codes and

Schedule 2

Customer does not alter or interfere with any ECMs effectuated by JCI. In the event JCI determines or becomes aware that building codes are not being adhered to or that any ECMs effectuated by the Customer have been altered or interfered with by Customer or its subcontractors or that any portion of the Premises or its contents is not being operated in accordance with Schedule 2 Section IV, JCI shall notify Customer and may, after discussion and mutual written agreement, make such adjustments as may be necessary to the calculations used to determine energy Savings in order to reflect the effects of non-compliance with building codes or the impact on ECMs effectuated by JCI.

4b. Services, including the ECMs, provided by JCI under this Agreement are intended to operate and be used as a total package to achieve optimum energy efficiency for Customer. In the event Customer disables, disconnects, or otherwise ceases to use or overrides any or all Service(s) or ECMs provided by JCI under this Agreement, JCI shall be entitled to make such adjustments as may be necessary to the calculations used to determine energy Savings in order to reflect the effects of such action by Customer, subject to written approval of the Customer, which shall not be unreasonably withheld.

4c. The Customer hereby acknowledges that the method of billing used by the applicable utility providing the energy source may be modified or subject to variation during the term of this Agreement. In such event, the calculations used to determine energy Savings shall be subject to such adjustments as necessary to equate the modified or varied method of billing to the method in effect at the time the relevant billing variables were incorporated into this Agreement.

Main gas accounts in the school district will be subject to Metrix regression analysis. Supplemental gas accounts, which typically have low usage, will be subject to Metrix bill matching analysis. These supplemental gas accounts are firm rate accounts that serve the kitchen gas, boiler pilot lamp, and in some cases Domestic Hot Water.

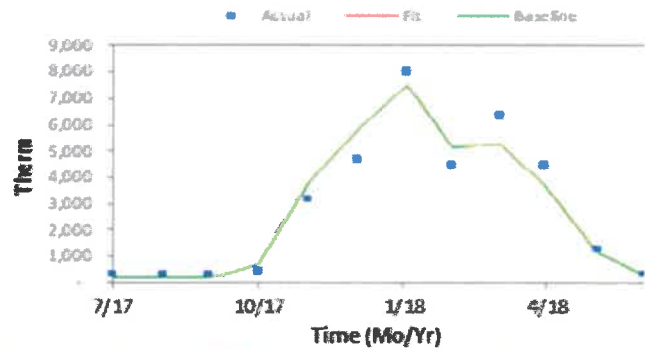
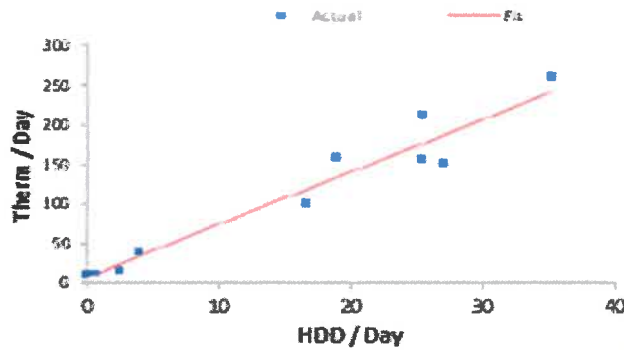
Building	Accounts Subject to Metrix Regression Analysis	Supplemental Accounts Subject to Metrix Bill Match Analysis
Walt Whitman High School	2661622002	7913608006
	9160476003	6668626002
Memorial Junior High School	755778002	
Henry L. Stimson Middle School	1416808002	7648344003
Silas Wood Sixth Grade Center	9181620001	6061829980
Birchwood Intermediate School	4476713009	
Maplewood Intermediate School	4439194004	
Countrywood Primary Center	1849653006	3089198008
Oakwood Primary Center	1302895004	
James Kaden Administrative Offices	8024255005	9270493009

Baseline Metrix Tuning Reports:

Meter Tuning Contract

Project: South Huntington SD
Area: Walt Whitman HS
Account: 2661622002

Site: South Huntington SD
Meter: Whitman_North_NG
Unit: Therm(Qty OnPk)



From	To	# Days	Reading	Incl?	HDD	CDD	Offset	Baseline	Deviation
06/28/17	07/28/17	31	303	<input checked="" type="checkbox"/>	0.0	0.0	-	222	-26.7%
07/29/17	08/28/17	31	314	<input checked="" type="checkbox"/>	0.0	0.0	-	222	-29.3%
08/29/17	09/26/17	29	344	<input checked="" type="checkbox"/>	3.0	0.0	-	228	-33.8%
09/27/17	10/27/17	31	493	<input checked="" type="checkbox"/>	78.0	0.0	-	745	51.0%
10/28/17	11/28/17	32	3,184	<input checked="" type="checkbox"/>	534.5	0.0	-	3,809	19.6%
11/29/17	12/29/17	31	4,673	<input checked="" type="checkbox"/>	838.0	0.0	-	5,835	24.9%
12/30/17	01/29/18	31	8,030	<input checked="" type="checkbox"/>	1091.0	0.0	-	7,530	-6.2%
01/30/18	02/27/18	29	4,496	<input checked="" type="checkbox"/>	737.5	0.0	-	5,148	14.5%
02/28/18	03/29/18	30	6,393	<input checked="" type="checkbox"/>	762.0	0.0	-	5,319	-16.8%
03/30/18	04/26/18	28	4,459	<input checked="" type="checkbox"/>	531.5	0.0	-	3,761	-15.7%
04/27/18	05/30/18	34	1,279	<input checked="" type="checkbox"/>	135.5	0.0	-	1,151	-10.0%
05/31/18	06/27/18	28	326	<input checked="" type="checkbox"/>	18.5	0.0	-	325	-0.4%
Sum/Average/Max		365	34,294		4729.5	0.0	-	34,294	0% +/- 21.5%

Whitman_North_NG (Account # 2661622002): Tuning Period is 365 days from 6/28/2017 until 6/27/2018.

Below is the equation used to calculate the Baseline values for the tuning period and all future periods:

$$\text{Baseline (Therm)} = 7.1652 \times \text{\#Days} + 6.6981 \times \text{HDD}$$

The Baseline Equation has a Net Mean Bias of 0% and a Monthly Mean Error of +/-21.5341%. The underlying regression has a R²=0.949

Baseline Costs are calculated using Average Total Cost/Consumption.

Explanations and Assumptions:

(empty checkbox) under 'Incl?' indicates that the bill is excluded from the regression. However the Baseline Equation is always applied for all billing periods, even those excluded from the regression.

HDD = Heating Degree-Days calculated for NEW YORKNY for a 64.0 F° balance point.

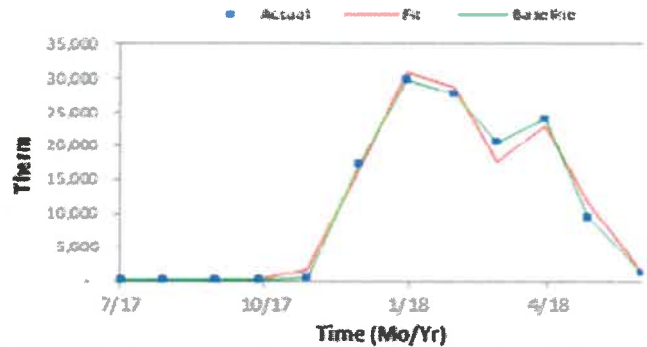
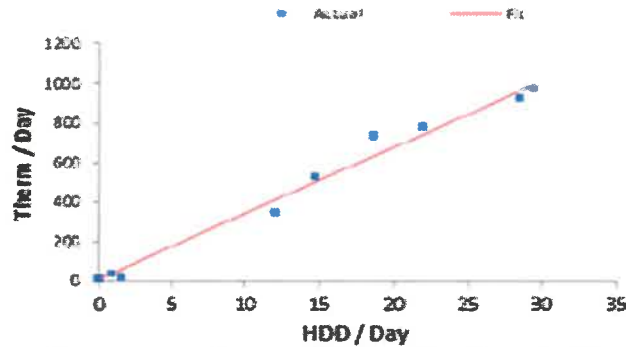
Multiplier is derived from Modification(s) in effect during the tuning period and is replicated annually for all future periods.

Please sign below to indicate your acceptance of the Baseline Calculations for the Whitman_North_NG meter, Account # 2661622002

Meter Tuning Contract

Project: South Huntington SD
 Area: Walt Whitman HS
 Account: 9160476003

Site: South Huntington SD
 Meter: Whitman_South_NG
 Unit: Therm(Qty OnPk)



From	To	HDD/Day	Reading	Incl?	HDD	CDD	Offset	Baseline	Deviation
06/06/17	07/06/17	31	305	<input checked="" type="checkbox"/>	3.5	0.0	60	305	0.0%
07/07/17	08/02/17	27	256	<input checked="" type="checkbox"/>	0.0	0.0	145	256	0.0%
08/03/17	09/04/17	33	309	<input checked="" type="checkbox"/>	0.0	0.0	173	309	0.0%
09/05/17	10/02/17	28	308	<input checked="" type="checkbox"/>	0.5	0.0	176	308	0.0%
10/03/17	11/02/17	31	601	<input checked="" type="checkbox"/>	49.0	0.0	(1,178)	601	0.0%
11/03/17	12/05/17	33	17,410	<input checked="" type="checkbox"/>	487.0	0.0	858	17,410	0.0%
12/06/17	01/05/18	31	29,871	<input checked="" type="checkbox"/>	911.5	0.0	(982)	29,871	0.0%
01/06/18	02/04/18	30	27,658	<input checked="" type="checkbox"/>	852.5	0.0	(1,202)	27,658	0.0%
02/05/18	03/04/18	28	20,496	<input checked="" type="checkbox"/>	521.5	0.0	2,802	20,496	0.0%
03/05/18	04/04/18	31	23,994	<input checked="" type="checkbox"/>	679.0	0.0	978	23,994	0.0%
04/05/18	05/02/18	28	9,604	<input checked="" type="checkbox"/>	336.5	0.0	(1,854)	9,604	0.0%
05/03/18	06/05/18	34	1,194	<input checked="" type="checkbox"/>	30.5	0.0	26	1,194	0.0%
Sum/Average/Max		365	132,006		3871.5	0.0	(0)	132,006	0% +/- 11.3%

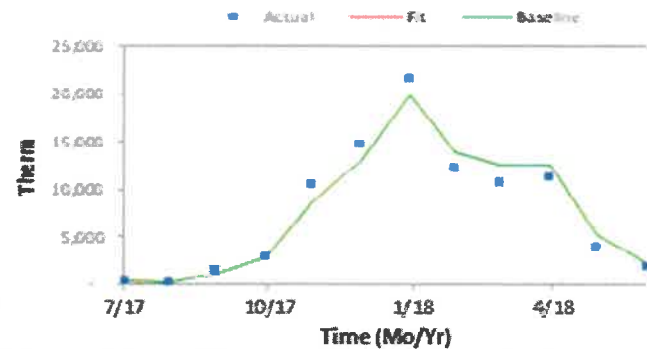
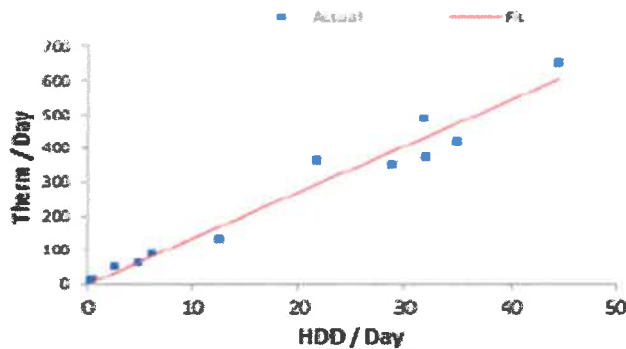
Whitman_South_NG (Account # 9160476003): Tuning Period is 365 days from 6/6/2017 until 6/5/2018.
 Below is the equation used to calculate the Baseline values for the tuning period and all future periods:

$$\text{Baseline (Therm)} = 4.1135 \times \# \text{Days} + 33.7091 \times \text{HDD} + \text{Offset}$$
 The Baseline Equation has a Net Mean Bias of 0% and a Monthly Mean Error of +/-11.2559%. The underlying regression has a $R^2=0.9883$
 Baseline Costs are calculated using Average Total Cost/Consumption.
 Explanations and Assumptions:
 (empty checkbox) under 'Incl?' indicates that the bill is excluded from the regression. However the Baseline Equation is always applied for all billing periods, even those excluded from the regression.
 HDD = Heating Degree-Days calculated for NEW YORKNY for a 60.0 F° balance point.
 Multiplier and Offset are derived from Modification(s) in effect during the tuning period and are replicated annually for all future periods.
 Please sign below to indicate your acceptance of the Baseline Calculations for the Whitman_South_NG meter, Account # 9160476003

Meter Tuning Contract

Project: South Huntington SD
 Area: Memorial Junior HS
 Account: 755778002

Site: South Huntington SD
 Meter: Memorial_NG
 Unit: Therm(Qty OnPk)



From	To	# Days	Reading	Incl?	HDD	CDD	Offset	Time (Mo/Yr)	Baseline	Deviation
06/25/17	07/25/17	31	433	<input checked="" type="checkbox"/>	15.5	0.0	-	263	-39.3%	
07/26/17	08/23/17	29	251	<input checked="" type="checkbox"/>	7.5	0.0	-	151	-39.8%	
08/24/17	09/21/17	29	1,480	<input checked="" type="checkbox"/>	75.0	0.0	-	1,067	-27.9%	
09/22/17	10/23/17	32	2,892	<input checked="" type="checkbox"/>	196.0	0.0	-	2,713	-6.2%	
10/24/17	11/21/17	29	10,573	<input checked="" type="checkbox"/>	633.5	0.0	-	8,643	-18.3%	
11/22/17	12/21/17	30	14,621	<input checked="" type="checkbox"/>	953.5	0.0	-	12,986	-11.2%	
12/22/17	01/23/18	33	21,662	<input checked="" type="checkbox"/>	1471.0	0.0	-	20,011	-7.6%	
01/24/18	02/21/18	29	12,307	<input checked="" type="checkbox"/>	1017.5	0.0	-	13,852	12.6%	
02/22/18	03/22/18	29	10,813	<input checked="" type="checkbox"/>	926.5	0.0	-	12,618	16.7%	
03/23/18	04/23/18	32	11,355	<input checked="" type="checkbox"/>	927.0	0.0	-	12,629	11.2%	
04/24/18	05/23/18	30	3,956	<input checked="" type="checkbox"/>	377.0	0.0	-	5,165	30.6%	
05/24/18	06/24/18	32	1,925	<input checked="" type="checkbox"/>	156.0	0.0	-	2,171	12.8%	
Sum/Average/Max		365	92,268		6756.0	0.0	-	92,268	0% +/- 16.7%	

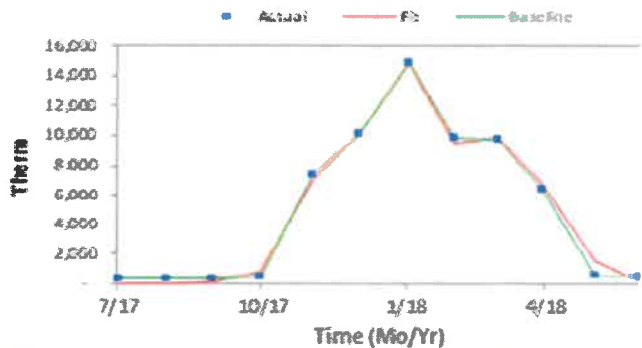
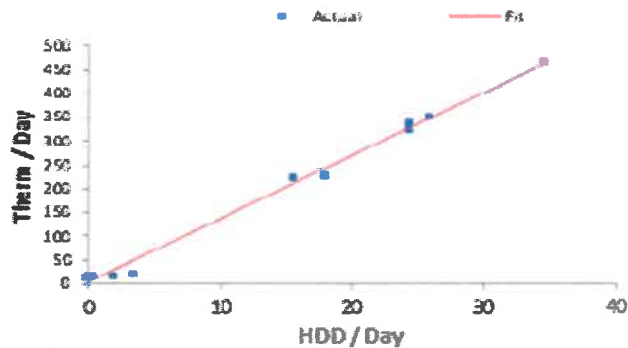
Memorial_NG (Account # 755778002): Tuning Period is 365 days from 6/25/2017 until 6/24/2018.
 Below is the equation used to calculate the Baseline values for the tuning period and all future periods:

$$\text{Baseline (Therm)} = 1.7001 \times \text{\#Days} + 13.5653 \times \text{HDD}$$
 The Baseline Equation has a Net Mean Bias of 0% and a Monthly Mean Error of +/-16.7099%. The underlying regression has a $R^2=0.9612$
 Baseline Costs are calculated using Average Total Cost/Consumption.
Explanations and Assumptions:
 (empty checkbox) under 'Incl?' indicates that the bill is excluded from the regression. However the Baseline Equation is always applied for all billing periods, even those excluded from the regression.
 HDD = Heating Degree-Days calculated for NEW YORKNY for a 72.0 F° balance point.
 Multiplier is derived from Modification(s) in effect during the tuning period and is replicated annually for all future periods.
 Please sign below to indicate your acceptance of the Baseline Calculations for the Memorial_NG meter, Account # 755778002

Meter Tuning Contract

Project: South Huntington SD
 Area: Henry L. Stimson MS
 Account: 1416808002

Site: South Huntington SD
 Meter: Stimson_NG
 Unit: Therm(Qty OnPk)



From	To	# Days	Reading	Incl?	HDD	CDD	Offset	Baseline	Deviation
06/28/17	07/28/17	31	344	<input checked="" type="checkbox"/>	0.0	0.0	305	344	0.0%
07/29/17	08/28/17	31	373	<input checked="" type="checkbox"/>	0.0	0.0	334	373	0.0%
08/29/17	09/26/17	29	402	<input checked="" type="checkbox"/>	2.0	0.0	338	402	0.0%
09/27/17	10/27/17	31	463	<input checked="" type="checkbox"/>	61.5	0.0	(402)	463	0.0%
10/28/17	11/29/17	33	7,347	<input checked="" type="checkbox"/>	515.0	0.0	391	7,347	0.0%
11/30/17	12/28/17	29	10,157	<input checked="" type="checkbox"/>	750.5	0.0	45	10,157	0.0%
12/29/17	01/29/18	32	14,973	<input checked="" type="checkbox"/>	1105.5	0.0	91	14,973	0.0%
01/30/18	02/27/18	29	9,840	<input checked="" type="checkbox"/>	708.5	0.0	291	9,840	0.0%
02/28/18	03/29/18	30	9,707	<input checked="" type="checkbox"/>	732.0	0.0	(158)	9,707	0.0%
03/30/18	04/26/18	28	6,351	<input checked="" type="checkbox"/>	503.5	0.0	(444)	6,351	0.0%
04/27/18	05/30/18	34	568	<input checked="" type="checkbox"/>	114.5	0.0	(1,012)	568	0.0%
05/31/18	06/27/18	28	413	<input checked="" type="checkbox"/>	11.5	0.0	223	413	0.0%
Sum/Average/Max		365	60,938		4504.5	0.0	0	60,938	0% +/- 8.4%

Stimson_NG (Account # 1416808002): Tuning Period is 365 days from 6/28/2017 until 6/27/2018.

Below is the equation used to calculate the Baseline values for the tuning period and all future periods:

$$\text{Baseline (Therm)} = 1.2721 \times \text{\#Days} + 13.4252 \times \text{HDD} + \text{Offset}$$

The Baseline Equation has a Net Mean Bias of 0% and a Monthly Mean Error of +/-8.4497%. The underlying regression has a R²=0.9939

Baseline Costs are calculated using Average Total Cost/Consumption.

Explanations and Assumptions:

(empty checkbox) under 'Incl?' indicates that the bill is excluded from the regression. However the Baseline Equation is always applied for all billing periods, even those excluded from the regression.

HDD = Heating Degree-Days calculated for NEW YORKNY for a 63.0 F° balance point.

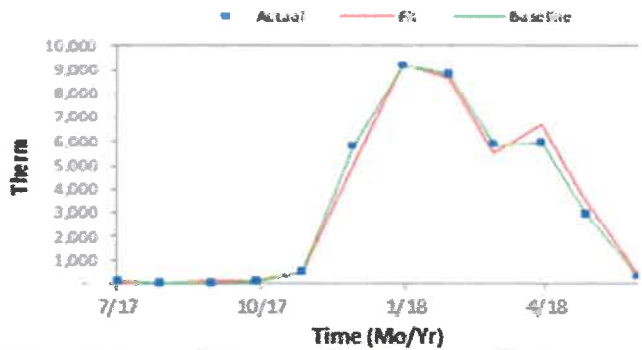
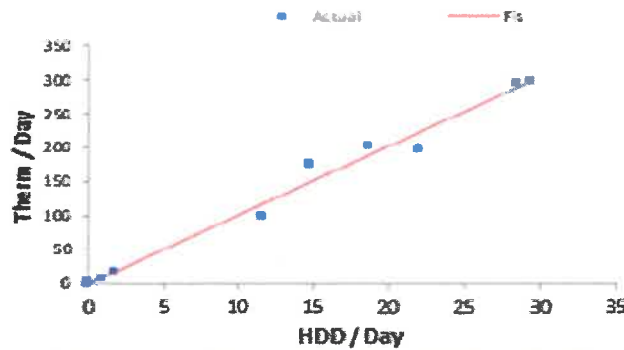
Multiplier and Offset are derived from Modification(s) in effect during the tuning period and are replicated annually for all future periods.

Please sign below to indicate your acceptance of the Baseline Calculations for the Stimson_NG meter, Account # 1416808002

Meter Tuning Contract

Project: South Huntington SD
 Area: Silas Wood
 Account: 9181620001

Site: South Huntington SD
 Meter: Silas Wood_NG
 Unit: Therm(Qty OnPk)



From	To	# Days	Reading	Incl?	HDD	CDD	Offset	Baseline	Deviation
06/07/17	07/07/17	31	39	<input checked="" type="checkbox"/>	0.0	0.0	11	39	0.0%
07/08/17	08/03/17	27	11	<input checked="" type="checkbox"/>	0.0	0.0	(13)	11	0.0%
08/04/17	09/05/17	33	13	<input checked="" type="checkbox"/>	0.0	0.0	(17)	13	0.0%
09/06/17	10/04/17	29	51	<input checked="" type="checkbox"/>	0.5	0.0	20	51	0.0%
10/05/17	11/02/17	29	521	<input checked="" type="checkbox"/>	49.0	0.0	(1)	521	0.0%
11/03/17	12/05/17	33	5,817	<input checked="" type="checkbox"/>	487.0	0.0	860	5,817	0.0%
12/06/17	01/05/18	31	9,208	<input checked="" type="checkbox"/>	911.5	0.0	(43)	9,208	0.0%
01/06/18	02/04/18	30	8,828	<input checked="" type="checkbox"/>	852.5	0.0	175	8,828	0.0%
02/05/18	03/05/18	29	5,861	<input checked="" type="checkbox"/>	542.0	0.0	351	5,861	0.0%
03/06/18	04/04/18	30	5,932	<input checked="" type="checkbox"/>	658.5	0.0	(758)	5,932	0.0%
04/05/18	05/03/18	29	2,917	<input checked="" type="checkbox"/>	336.5	0.0	(514)	2,917	0.0%
05/04/18	06/05/18	33	268	<input checked="" type="checkbox"/>	30.5	0.0	(70)	268	0.0%
Sum/Average/Max		364	39,466		3868.0	0.0	(0)	39,466	0% +/- 12.1%

Silas Wood_NG (Account # 9181620001): Tuning Period is 364 days from 6/7/2017 until 6/5/2018.

Below is the equation used to calculate the Baseline values for the tuning period and all future periods:

$$\text{Baseline (Therm)} = 0.9006 \times \text{\#Days} + 10.1185 \times \text{HDD} + \text{Offset}$$

The Baseline Equation has a Net Mean Bias of 0% and a Monthly Mean Error of +/-12.0897%. The underlying regression has a R²=0.9883

Baseline Costs are calculated using Average Total Cost/Consumption.

Explanations and Assumptions:

(empty checkbox) under 'Incl?' indicates that the bill is excluded from the regression. However the Baseline Equation is always applied for all billing periods, even those excluded from the regression.

HDD = Heating Degree-Days calculated for NEW YORKNY for a 60.0 F° balance point.

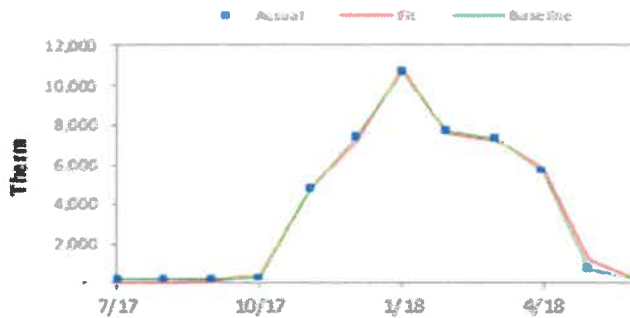
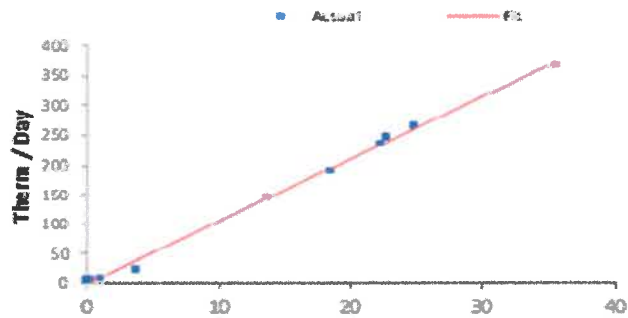
Multiplier and Offset are derived from Modification(s) in effect during the tuning period and are replicated annually for all future periods.

Please sign below to indicate your acceptance of the Baseline Calculations for the Silas Wood_NG meter, Account # 9181620001

Meter Tuning Contract

Project: South Huntington SD
 Area: Birchwood IS
 Account: 4476713009

Site: South Huntington SD
 Meter: Birchwood_NG
 Unit: Therm(Qty OnPk)



From	To	HDD/Day	Reading	Incl?	HDD	CDD	Offset	Time (Mo/Yr)	Baseline	Deviation
06/25/17	07/25/17	31	142	<input checked="" type="checkbox"/>	0.0	0.0	110	142	0.0%	
07/26/17	08/24/17	30	144	<input checked="" type="checkbox"/>	0.0	0.0	113	144	0.0%	
08/25/17	09/24/17	31	177	<input checked="" type="checkbox"/>	1.0	0.0	134	177	0.0%	
09/25/17	10/24/17	30	264	<input checked="" type="checkbox"/>	30.0	0.0	(82)	264	0.0%	
10/25/17	11/26/17	33	4,795	<input checked="" type="checkbox"/>	452.5	0.0	20	4,795	0.0%	
11/27/17	12/26/17	30	7,426	<input checked="" type="checkbox"/>	681.0	0.0	260	7,426	0.0%	
12/27/17	01/24/18	29	10,697	<input checked="" type="checkbox"/>	1032.0	0.0	(146)	10,697	0.0%	
01/25/18	02/22/18	29	7,682	<input checked="" type="checkbox"/>	720.0	0.0	108	7,682	0.0%	
02/23/18	03/25/18	31	7,309	<input checked="" type="checkbox"/>	691.5	0.0	32	7,309	0.0%	
03/26/18	04/24/18	30	5,718	<input checked="" type="checkbox"/>	556.5	0.0	(144)	5,718	0.0%	
04/25/18	05/24/18	30	729	<input checked="" type="checkbox"/>	110.0	0.0	(455)	729	0.0%	
05/25/18	06/25/18	32	194	<input checked="" type="checkbox"/>	10.5	0.0	51	194	0.0%	
Sum/Average/Max		366	45,277		4285.0	0.0	(0)	45,277	0% +/- 4.9%	

Birchwood_NG (Account # 4476713009): Tuning Period is 366 days from 6/25/2017 until 6/25/2018.

Below is the equation used to calculate the Baseline values for the tuning period and all future periods:

$$\text{Baseline (Therm)} = 1.0408 \times \text{\#Days} + 10.4775 \times \text{HDD} + \text{Offset}$$

The Baseline Equation has a Net Mean Bias of 0% and a Monthly Mean Error of +/-4.9343%. The underlying regression has a $R^2=0.9978$

Baseline Costs are calculated using Average Total Cost/Consumption.

Explanations and Assumptions:

(empty checkbox) under 'Incl?' indicates that the bill is excluded from the regression. However the Baseline Equation is always applied for all billing periods, even those excluded from the regression.

HDD = Heating Degree-Days calculated for NEW YORKNY for a 62.0 F° balance point.

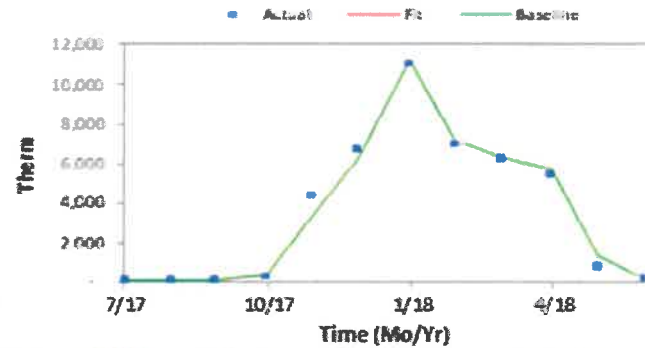
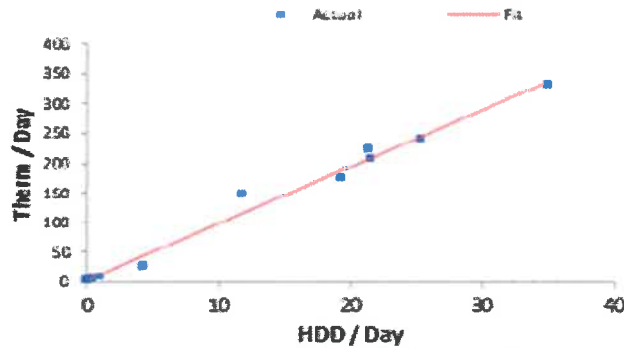
Multiplier and Offset are derived from Modification(s) in effect during the tuning period and are replicated annually for all future periods.

Please sign below to indicate your acceptance of the Baseline Calculations for the Birchwood_NG meter, Account # 4476713009

Meter Tuning Contract

Project: South Huntington SD
 Area: Maplewood IS
 Account: 4439194004

Site: South Huntington SD
 Meter: Maplewood_NG
 Unit: Therm(Qty OnPk)



From	To	# Days	Reading	Incl?	HDD	CDD	Offset	Baseline	Deviation
06/24/17	07/24/17	31	80	<input checked="" type="checkbox"/>	0.0	0.0	-	65	-18.8%
07/25/17	08/22/17	29	63	<input checked="" type="checkbox"/>	0.0	0.0	-	61	-3.6%
08/23/17	09/20/17	29	81	<input checked="" type="checkbox"/>	1.0	0.0	-	70	-13.1%
09/21/17	10/22/17	32	284	<input checked="" type="checkbox"/>	30.0	0.0	-	356	25.5%
10/23/17	11/20/17	29	4,306	<input checked="" type="checkbox"/>	342.5	0.0	-	3,364	-21.9%
11/21/17	12/20/17	30	6,693	<input checked="" type="checkbox"/>	640.5	0.0	-	6,240	-6.8%
12/21/17	01/22/18	33	10,993	<input checked="" type="checkbox"/>	1151.5	0.0	-	11,174	1.6%
01/23/18	02/20/18	29	7,000	<input checked="" type="checkbox"/>	735.0	0.0	-	7,149	2.1%
02/21/18	03/22/18	30	6,206	<input checked="" type="checkbox"/>	645.0	0.0	-	6,283	1.2%
03/23/18	04/22/18	31	5,452	<input checked="" type="checkbox"/>	596.0	0.0	-	5,813	6.6%
04/23/18	05/22/18	30	783	<input checked="" type="checkbox"/>	131.5	0.0	-	1,331	70.0%
05/23/18	06/21/18	30	143	<input checked="" type="checkbox"/>	12.0	0.0	-	179	24.9%
Sum/Average/Max		363	42,084		4285.0	0.0	-	42,084	0% +/- 10.8%

Maplewood_NG (Account # 4439194004): Tuning Period is 363 days from 6/24/2017 until 6/21/2018.

Below is the equation used to calculate the Baseline values for the tuning period and all future periods:

$$\text{Baseline (Therm)} = 2.0945 \times \text{\#Days} + 9.6438 \times \text{HDD}$$

The Baseline Equation has a Net Mean Bias of 0% and a Monthly Mean Error of +/-10.8457%. The underlying regression has a R²=0.9884

Baseline Costs are calculated using Average Total Cost/Consumption.

Explanations and Assumptions:

(empty checkbox) under 'Incl?' indicates that the bill is excluded from the regression. However the Baseline Equation is always applied for all billing periods, even those excluded from the regression.

HDD = Heating Degree-Days calculated for NEW YORKNY for a 62.0 F° balance point.

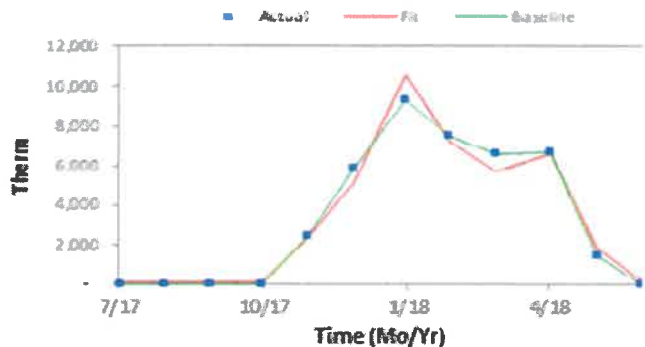
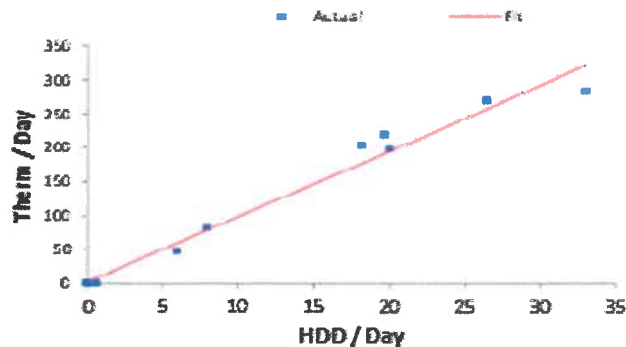
Multiplier is derived from Modification(s) in effect during the tuning period and is replicated annually for all future periods.

Please sign below to indicate your acceptance of the Baseline Calculations for the Maplewood_NG meter, Account # 4439194004

Meter Tuning Contract

Project: South Huntington SD
 Area: Countrywood PC
 Account: 1849653006

Site: South Huntington SD
 Meter: Countrywood_NG
 Unit: Therm(Qty OnPk)



From	To	# Days	Reading	Incl?	HDD	CDD	Offset	Baseline	Deviation
06/17/17	07/17/17	31	-	<input checked="" type="checkbox"/>	0.0	0.0	(59)	-	0.0%
07/18/17	08/14/17	28	-	<input checked="" type="checkbox"/>	0.0	0.0	(54)	-	0.0%
08/15/17	09/13/17	30	1	<input checked="" type="checkbox"/>	0.0	0.0	(57)	1	0.0%
09/14/17	10/15/17	32	22	<input checked="" type="checkbox"/>	4.5	0.0	(83)	22	0.0%
10/16/17	11/14/17	30	2,421	<input checked="" type="checkbox"/>	239.0	0.0	58	2,421	0.0%
11/15/17	12/13/17	29	5,915	<input checked="" type="checkbox"/>	527.0	0.0	776	5,915	0.0%
12/14/17	01/15/18	33	9,311	<input checked="" type="checkbox"/>	1092.5	0.0	(1,290)	9,311	0.0%
01/16/18	02/12/18	28	7,548	<input checked="" type="checkbox"/>	743.0	0.0	328	7,548	0.0%
02/13/18	03/14/18	30	6,585	<input checked="" type="checkbox"/>	588.0	0.0	856	6,585	0.0%
03/15/18	04/17/18	34	6,714	<input checked="" type="checkbox"/>	680.0	0.0	90	6,714	0.0%
04/18/18	05/17/18	30	1,456	<input checked="" type="checkbox"/>	182.0	0.0	(357)	1,456	0.0%
05/18/18	06/14/18	28	-	<input checked="" type="checkbox"/>	16.0	0.0	(208)	-	0.0%
Sum/Average/Max		363	39,973		4072.0	0.0	0	39,973	0% +/- 16.5%

Countrywood_NG (Account # 1849653006): Tuning Period is 363 days from 6/17/2017 until 6/14/2018.

Below is the equation used to calculate the Baseline values for the tuning period and all future periods:

$$\text{Baseline (Therm)} = 1.9184 \times \# \text{Days} + 9.6455 \times \text{HDD} + \text{Offset}$$

The Baseline Equation has a Net Mean Bias of 0% and a Monthly Mean Error of +/-16.4558%. The underlying regression has a $R^2=0.977$

Baseline Costs are calculated using Average Total Cost/Consumption.

Explanations and Assumptions:

(empty checkbox) under 'Incl?' indicates that the bill is excluded from the regression. However the Baseline Equation is always applied for all billing periods, even those excluded from the regression.

HDD = Heating Degree-Days calculated for NEW YORKNY for a 61.0 F° balance point.

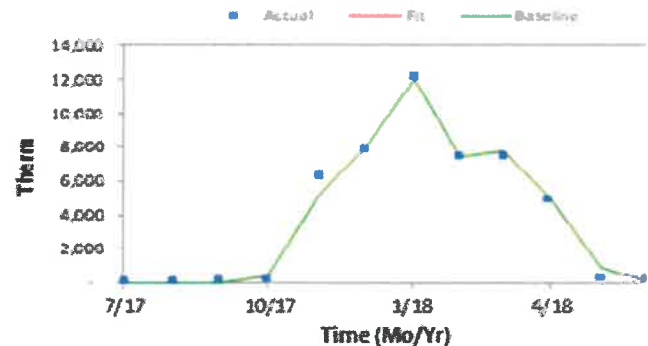
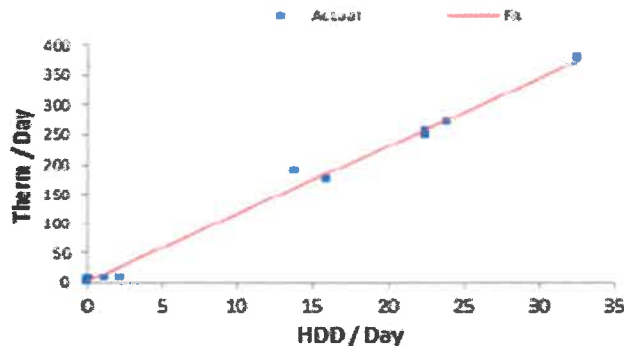
Multiplier and Offset are derived from Modification(s) in effect during the tuning period and are replicated annually for all future periods.

Please sign below to indicate your acceptance of the Baseline Calculations for the Countrywood_NG meter, Account # 1849653006

Meter Tuning Contract

Project: South Huntington SD
 Area: Oakwood PC
 Account: 1302895004

Site: South Huntington SD
 Meter: Oakwood_NG
 Unit: Therm(Qty OnPk)



From	To	# Days	Reading	Incl?	HDD	CDD	Offset	Baseline	Deviation
06/28/17	07/28/17	31	83	<input type="checkbox"/>	0.0	0.0	-	37	-55.0%
07/29/17	08/28/17	31	120	<input type="checkbox"/>	0.0	0.0	-	37	-68.9%
08/29/17	09/26/17	29	156	<input type="checkbox"/>	0.0	0.0	-	35	-77.6%
09/27/17	10/27/17	31	243	<input type="checkbox"/>	33.5	0.0	-	422	73.8%
10/28/17	11/29/17	33	6,288	<input type="checkbox"/>	454.0	0.0	-	5,259	-16.4%
11/30/17	12/28/17	29	7,863	<input type="checkbox"/>	692.5	0.0	-	7,995	1.7%
12/29/17	01/29/18	32	12,113	<input type="checkbox"/>	1041.5	0.0	-	12,011	-0.8%
01/30/18	02/27/18	29	7,440	<input type="checkbox"/>	650.5	0.0	-	7,513	1.0%
02/28/18	03/29/18	30	7,517	<input type="checkbox"/>	672.0	0.0	-	7,761	3.2%
03/30/18	04/26/18	28	4,907	<input type="checkbox"/>	447.5	0.0	-	5,178	5.5%
04/27/18	05/30/18	34	308	<input type="checkbox"/>	76.5	0.0	-	920	198.8%
05/31/18	06/27/18	28	210	<input type="checkbox"/>	4.0	0.0	-	80	-62.0%
Sum/Average/Max		365	47,248		4072.0	0.0	-	47,248	0% +/- 9.9%

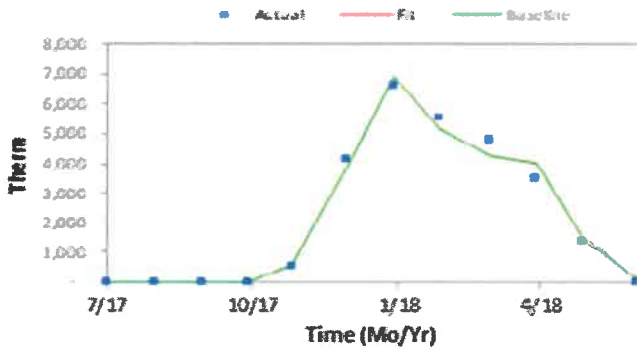
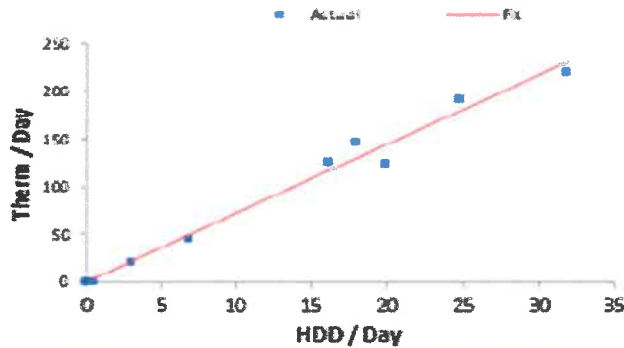
Oakwood_NG (Account # 1302895004): Tuning Period is 365 days from 6/28/2017 until 6/27/2018.
 Below is the equation used to calculate the Baseline values for the tuning period and all future periods:

$$\text{Baseline (Therm)} = 1.2051 \times \text{\#Days} + 11.4951 \times \text{HDD}$$
 The Baseline Equation has a Net Mean Bias of 0% and a Monthly Mean Error of +/-9.9064%. The underlying regression has a $R^2=0.9925$
 Baseline Costs are calculated using Average Total Cost/Consumption.
 Explanations and Assumptions:
 (empty checkbox) under 'Incl?' indicates that the bill is excluded from the regression. However the Baseline Equation is always applied for all billing periods, even those excluded from the regression.
 HDD = Heating Degree-Days calculated for NEW YORKNY for a 61.0 F° balance point.
 Multiplier is derived from Modification(s) in effect during the tuning period and is replicated annually for all future periods.
 Please sign below to indicate your acceptance of the Baseline Calculations for the Oakwood_NG meter, Account # 1302895004

Meter Tuning Contract

Project: South Huntington SD
 Area: Administration Offices
 Account: 8024255005

Site: South Huntington SD
 Meter: Admin_NG
 Unit: Therm(Qty OnPk)



From	To	# Days	Reading	Incl?	HDD	CDD	Offset	Baseline	Deviation
06/14/17	07/14/17	31	-	<input checked="" type="checkbox"/>	0.0	0.0	-	0	0.0%
07/15/17	08/13/17	30	-	<input checked="" type="checkbox"/>	0.0	0.0	-	0	0.0%
08/14/17	09/12/17	30	1	<input checked="" type="checkbox"/>	0.0	0.0	-	0	-59.1%
09/13/17	10/11/17	29	-	<input checked="" type="checkbox"/>	0.0	0.0	-	0	0.0%
10/12/17	11/08/17	28	551	<input checked="" type="checkbox"/>	83.0	0.0	-	601	9.2%
11/09/17	12/11/17	33	4,136	<input checked="" type="checkbox"/>	535.5	0.0	-	3,878	-6.2%
12/12/17	01/10/18	30	6,614	<input checked="" type="checkbox"/>	958.5	0.0	-	6,942	5.0%
01/11/18	02/08/18	29	5,570	<input checked="" type="checkbox"/>	719.5	0.0	-	5,211	-6.4%
02/09/18	03/13/18	33	4,846	<input checked="" type="checkbox"/>	592.0	0.0	-	4,288	-11.5%
03/14/18	04/10/18	28	3,496	<input checked="" type="checkbox"/>	556.5	0.0	-	4,030	15.3%
04/11/18	05/11/18	31	1,379	<input checked="" type="checkbox"/>	210.5	0.0	-	1,525	10.6%
05/12/18	06/13/18	33	-	<input checked="" type="checkbox"/>	16.0	0.0	-	116	0.0%
Sum/Average/Max		365	26,593		3671.5	0.0	-	26,593	0% +/- 13.2%

Admin_NG (Account # 8024255005): Tuning Period is 365 days from 6/14/2017 until 6/13/2018.
 Below is the equation used to calculate the Baseline values for the tuning period and all future periods:

$$\text{Baseline (Therm)} = 0.0136 \times \# \text{Days} + 7.2417 \times \text{HDD}$$
 The Baseline Equation has a Net Mean Bias of 0% and a Monthly Mean Error of +/-13.1734%. The underlying regression has a $R^2=0.9868$
 Baseline Costs are calculated using Average Total Cost/Consumption.
Explanations and Assumptions:
 (empty checkbox) under 'Incl?' indicates that the bill is excluded from the regression. However the Baseline Equation is always applied for all billing periods, even those excluded from the regression.
 HDD = Heating Degree-Days calculated for NEW YORKNY for a 59.0 F° balance point.
 Multiplier is derived from Modification(s) in effect during the tuning period and is replicated annually for all future periods.
 Please sign below to indicate your acceptance of the Baseline Calculations for the Admin_NG meter, Account # 8024255005

2.2.2 NEMVP Option A M&V Plan: (For Guarantee Year 1 Option A Measures (Table 2.2.1) and Guarantee Year 2-18 Option A Measures (Table 2.2.2), provided Option C is achieved in Year 1 for ECMs 1, 3, 4, 5, 7,8, 10, and 15):

**NEMVP Option A
Potential to Perform Verification and Performance Calculation**

Option A is a verification approach designed for projects where the potential to perform needs to be verified, but the actual performance (savings) can be calculated based on the results of the “potential to perform and generate savings” verification and engineering calculations. Option A involves procedures for verifying that:

- Baseline conditions have been properly defined.
- The equipment and/or systems that were contracted to be installed have been installed.
- The installed equipment/systems meet the specifications of the contract in terms of quantity, quality and rating.
- The installed equipment is operating and performing in accordance with the specifications in the contract and meeting functional tests.
- The installed equipment/systems continue, during the term of the contract, to meet the specifications of the contract in terms of quantity, quality and rating, operation and functional performance.

The potential to perform may be verified through inspections and/or spot or short-term metering conducted immediately before and/or immediately after project installation. Annual (or some other regular interval) inspections may also be conducted to verify an ECM’s continued potential to perform and generate savings. With Option A, actual achieved energy or cost savings are not verified; they are predicted using engineering or statistical methods that do not involve long-term measurements.

Table 2.2.2.1: Option A Measures

ECM #	Proposed Measures	M&V Option
ECM 1	Lighting - Interior Retrofit	A
ECM 2	Lighting - Exterior Retrofit	A
ECM 3	Building Envelope - Weatherization	A
ECM 4	Window Film	A
ECM 6	Pumping System - VFD on HW Pumps	A
ECM 7	Heating System - Boiler Replacement	A
ECM 8	Heating System - Pipe and Valve Insulation	A
ECM 9	Refrigeration Compressor Controllers	A
ECM 10	Water Conservation	A
ECM 11	Refrigerator Equipment Upgrades	A
ECM 13	Plug Load Controllers	A
ECM 14	Vending Machine Controllers	A
ECM 15	Heating System - DHW Replacement	A
ECM 16	AC Compressor Controllers	A

ECM 1: Lighting - Interior Retrofit

M&V Option: NEMVP-A (One Time)

Measurement Boundary: Retrofit isolation – Project savings will be determined within the measurement boundary that encompasses only the light fixtures subject to the lighting retrofit project.

Measured Key Parameter: Wattage of circuits that are sampled per the Table 2.2.2.2. Light intensity levels (foot candles).

Assumptions: Pre kW data is based on NYSERDA approved wattage tables. Pre and post hours of operation is based on information from customer as set forth in Exhibit 7 of Schedule 2.

Interaction: Lighting kW reduction leads to increase in heat energy usage during winter and decrease in cooling energy usage during summer. The net energy usage due interaction will be accounted during pre-retrofit and post-retrofit savings calculation.

Measuring Equipment: True-RMS Wattmeter (kW measurement) and light meter (foot candle measurement)

Measuring Equipment Accuracy:
±3% of measurement range

Measuring Equipment Calibration: Equipment will be quality checked for calibration at the time of measurement and documented in the M&V report.

Measurement Period: One-minute average

Measurement Frequency: One-time post-retrofit measurement. Annual visual inspection checks for rest of the Guarantee Period.

Measurement and Verification Details:

Sampling Procedure:

To reduce M&V cost, all fixtures installed will not be measured, an effective NEMVP recommended sampling method will be used. Lighting fixture types that account for greater than 10% of the total fixtures installed will be measured. Lighting fixtures will be separated to homogenous groups and sampled to achieve ±10% precision with 90% confidence.

Measurement Procedure:

True RMS power measurements will be taken at the light switch that energizes the circuit containing only the sampled fixture types.

Quality Check Procedure:

In order to ensure that a room is not under lit due to lighting kw reduction, a sample of light levels pre and post retrofit will be measured . This data will be compared against the ASHRAE/IES recommended light levels for each user type.

Pre-Installation Activities:

Pre-retrofit lighting kW data from the line by line will be used for pre-retrofit savings calculation.

Post-Installation Activities:

Post-kW measurements will be sampled and measured once after retrofit and will be used for rest of the Guarantee Period. Light level will be quality checked annually throughout the Guarantee Period. Inspection results and JCI warranty commitments will be communicated to the Customer in writing to maximize warranty benefits. Warranty claim procedure will be the responsibility of the Customer with the assistance of JCI.

Formulas, lighting pre Wattages and run hours in the Detailed Energy Audit (DEA) will be used to calculate the savings.

Table 2.2.2.2: Sampling Confidence and Precision

Precision	20%	20%	10%
Confidence	80%	90%	90%
Z-Statistic	1.282	1.645	1.645
Population Size, N	Sample Size, n*		
4	3	4	4
8	5	6	8
12	6	8	11
16	7	9	13
20	8	10	16
25	8	11	19
30	9	11	21
35	9	12	24
40	9	12	26
45	9	13	28
50	10	13	29
60	10	14	32
70	10	14	35
80	10	15	37
90	10	15	39
100	10	15	41
125	11	15	45
150	11	16	47
175	11	16	49
200	11	16	51
300	11	17	56
400	11	17	59
500	11	17	60
infinite	11	17	68

ECM 2: Lighting - Exterior Retrofit

M&V Option: NEMVP-A (One Time)

Measurement Boundary: Retrofit isolation – Project savings will be determined within the measurement boundary that encompasses only the light fixtures subject to the lighting retrofit project.

Measured Key Parameter: Wattage of circuits that are sampled per the Table 2.2.2.2.

Assumptions: Pre kW data is based on NYSERDA approved wattage tables. Pre and post hours of operation is based on information from customer as set forth in Exhibit 7 of Schedule 2.

Interaction: Lighting kW reduction leads to increase in heat energy usage during winter and decrease in cooling energy usage during summer. The net energy usage due interaction will be accounted during pre-retrofit and post-retrofit savings calculation.

Measuring Equipment: True-RMS Wattmeter (kW measurement)

Measuring Equipment Accuracy:
±3% of measurement range

Measuring Equipment Calibration: Equipment will be quality checked for calibration at the time of measurement and documented in the M&V report.

Measurement Period: One-minute average

Measurement Frequency: One-time post-retrofit measurement. Annual visual inspection checks for rest of the Guarantee Period.

Measurement and Verification Details:

Sampling Procedure:

To reduce M&V cost, all fixtures installed will not be measured, an effective NEMVP recommended sampling method will be used. Lighting fixture types that account for greater than 10% of the total fixtures installed will be measured. Lighting fixtures will be separated to homogenous groups and sampled to achieve ±10% precision with 90% confidence.

Measurement Procedure:

True RMS power measurements will be taken at the breaker that energizes the circuit containing only the sampled fixture types.

Quality Check Procedure:

In order to ensure that a room is not under lit due to lighting kW reduction, a sample of light levels pre and post retrofit will be measured. This data will be compared against the ASHRAE/IES recommended light levels for each user type.

Pre-Installation Activities:

Pre-retrofit lighting kW data from the line by line will be used for pre-retrofit savings calculation.

Post-Installation Activities:

Post-kW measurements will be sampled and measured once after retrofit and will be used for rest of the Guarantee Period. Light level will be quality checked annually throughout the Guarantee Period. Inspection results and JCI warranty commitments will be communicated to the Customer in writing to maximize warranty benefits. Warranty claim procedure will be the responsibility of the Customer with the assistance of JCI.

Formulas, lighting pre Wattages and run hours in the Detailed Energy Audit (DEA) will be used to calculate the savings.

ECM 3: Building Envelope - Weatherization

M&V Option: NEMVP-A (One Time), electric all years. NEMVP-C, gas in year 1. For years 2-18 gas will be NEMVP-A, provided Option C is achieved in Year 1

Measurement Boundary: Retrofit isolation – Project savings will be determined within the measurement boundary that encompasses only the items that are subject to this building envelope improvement project.

Interaction: All thermal ECMs.

Verification Equipment: Infrared camera, thermal gun and measuring tape

Verification Period & Frequency: One time post-retrofit period. Inspection checks for rest of the Guarantee Period.

Pre-Installation Activities:

A digital camera will primarily be used to document the pre-retrofit conditions. An infrared camera will be used to capture the thermo graphic image of pre-retrofit thermal leaks. Linear footage of weatherization will be measured using a measuring tape.

Post-Installation Activities:

A digital camera will primarily be used to document the post-retrofit conditions. An infrared camera will be used to capture the thermo graphic image of post retrofit thermal leaks. Linear footage of weatherization will be measured using a measuring tape.

Formulas and values in the DEA will be used to calculate the savings**ECM 4: Window Film**

M&V Option: NEMVP-A (One Time), electric all years. NEMVP-C, gas in year 1. For years 2-18 gas will be NEMVP-A, provided Option C is achieved in Year 1

Measurement Boundary: Retrofit isolation – Project savings will be determined within the measurement boundary that encompasses only the window films subject to this project.

Measured Parameters: Solar heat gain coefficient and UV(A) (ultraviolet), Visible Light (VLT), and Near Infrared (NEAR IR) transmission values for a pre-retrofit and post-retrofit windows will be measured.

Measuring Equipment: Solar heat gain profiler

Measuring Equipment Accuracy: $\pm 5\%$ of measurement range

Measuring Equipment Calibration: Equipment will be quality checked for calibration at the time of measurement and documented in the M&V report.

Measurement Period: 10-second average

Measurement Frequency: One-time post-retrofit measurement. Inspection checks for remainder of the Guarantee Period.

Measurement and Verification Details:***Measurement Procedure:***

The solar heat gain profiler will be placed across different areas of the measurement sample and 10-second averages will be taken. The results will be documented using photographs.

Quality Check Procedure:

The M&V team will visually inspect a sample set of windows for peeling, formation of bubbles, and film quality degradation. Inspection results and JCI warranty commitments will be communicated to the customer to maximize warranty benefits. Warranty claim procedure will be the responsibility of the Customer. This will be performed each year during the Guarantee Period.

Post-Measurement Activities:

Solar heat gain coefficient and UV(A) (ultraviolet), Visible Light (VLT), and Near Infrared (NEAR IR) transmission values for at least 5% of the post-retrofit windows.

Formulas and values in the DEA will be used to calculate the savings**ECM 6 Pumping System - VFD on HW Pumps**

M&V Option: NEMVP-A (One Time)

Measurement Boundary: Retrofit isolation – Project savings will be determined within the measurement boundary that encompasses only the items that are subject to this VFD improvement.

Verification Period & Frequency: One time post-retrofit period. Inspection checks for rest of the Guarantee Period.

Pre-Installation Activities:

A digital camera will primarily be used to document the pre-retrofit conditions.

Post-Installation Activities:

The size and performance of the installed equipment will be verified against equipment specification. A digital camera will primarily be used to document the post-retrofit conditions.

Formulas and values in the DEA will be used to calculate the savings**ECM 7: Heating System - Boiler Replacement**

M&V Option: NEMVP-C, gas in year 1. For years 2-18 gas will be NEMVP-A, provided Option C is achieved in Year 1

Verification Boundary: Retrofit isolation – Project savings will be determined within the measurement boundary that encompasses only the items that are subject to this FIM.

Measurement: Combustion efficiency

Verification Period & Frequency: One time post-retrofit period. Inspection checks for rest of the Guarantee Period.

Assumptions: Each building's estimated heating load defined in the DEA will be used as the floor value in our calculations. If the actual load falls below these floor values, the DEA floor values will be used.

Post- Verification Procedure:

Combustion analyzer will be used to measure combustion efficiency. A digital camera will be used to document the post-retrofit conditions. Verify if it performs in accordance with the functional specifications in the Detailed Energy Audit (DEA) and meeting all functional tests.

Formulas and values in the DEA will be used to calculate the savings**ECM 8: Heating System - Pipe and Valve Insulation**

M&V Option: NEMVP-C, gas in year 1. For years 2-18 gas will be NEMVP-A, provided Option C is achieved in Year 1

Measurement Boundary: Retrofit isolation – Project savings will be determined within the measurement boundary that encompasses only the items that are subject to this Pipe and Valve Insulation project.

Verification Equipment: Thermal gun (or infrared camera) and measuring tape

Verification Frequency & Period: One time during both pre-retrofit period and post-retrofit period. Inspection checks for rest of the Guarantee Period.

Pre-Installation Activities:

A thermal gun will be used to measure surface temperatures or an infrared camera will be used to capture the thermo graphic image of pre-retrofit thermal leaks.

Post- Installation Activities:

Accuracy of the as-built will be verified by sampling in accordance with Table 2.2.2.2. A digital camera will be used to document the post-retrofit conditions. A thermal gun or an infrared camera will be used to verify installation.

Formulas and values in the DEA will be used to calculate the savings**ECM 9: Refrigeration Compressor Controllers**

M&V Option: NEMVP-A (One Time)

Verification Boundary: Retrofit isolation – Project savings will be determined within the measurement boundary that encompasses only the items that are subject to the refrigeration compressor controller project.

Verification Period & Frequency: One time post-retrofit period. Inspection checks for rest of the Guarantee Period.

Pre-Installation Activities:

Document with the digital camera that the compressor controllers are not installed.

Post-Installation Activities:

A digital camera will be used to document the post- retrofit conditions. Inspect and verify the refrigeration compressor controller installation to see if they meet the specifications of the DEA in terms of quantity. Verify if they perform in accordance with the specifications in the DEA and meeting all functional tests.

Formulas and values in the DEA will be used to calculate the savings**ECM 10: Water Conservation**

M&V Option: NEMVP-A (One Time), electric all years. NEMVP-C, gas in year 1. For years 2-18 gas will be NEMVP-A, provided Option C is achieved in Year 1.

Verification Boundary: Retrofit isolation – Project savings will be determined within the measurement boundary that encompasses only the items that are subject to this water conservation project.

Verification Method: Measure post-retrofit flow rate. Measurements will be sampled using the sampling Table 2.2.2.2.

Verification Period & Frequency: One time post-retrofit period. Inspection checks for rest of the Guarantee Period.

Post-Installation Activities:

A digital camera will primarily be used to document the post-retrofit conditions. After the aerators are fitted, the water flow at full open will be measured using a measuring container and a stop watch.

Formulas and values in the DEA will be used to calculate the savings

ECM 11: Refrigerator Equipment Upgrades

M&V Option: NEMVP-A (One Time)

Measurement Boundary: Retrofit isolation – Project savings will be determined within the measurement boundary that encompasses only the items that are subject to this Refrigerator Equipment Upgrade ECM.

Verification Period & Frequency: One time post-retrofit period. Inspection checks for rest of the Guarantee Period.

Post-Installation Activities:

The size and performance of the installed equipment as shown on the name plate will be verified against design specifications. A digital camera will be used to document the post-retrofit conditions.

Formulas and values in the DEA will be used to calculate the savings

ECM 13: Plug Load Controllers

M&V Option: NEMVP-A (One Time)

Verification Boundary: Retrofit isolation – Project savings will be determined within the measurement boundary that encompasses only the items that are subject to the Plug Load Management project.

Interaction: Electric ECMs

Measured Key Parameter: Operating schedule

Measuring Equipment: M&V BERT Kit

Measuring Equipment Calibration: Equipment will be quality checked for calibration at the time of measurement and documented in the M&V report.

Verification Period & Frequency: One time for a two week period after installation.

Post-Installation Activities: A digital camera will be used to document the post- retrofit conditions. Inspect and verify the BERT installation to see if they meet the specifications of the contract in terms of quantity and functionality. Once the Bert plugs are installed, schedules are established and operational; we will collect usage schedule data for two week period and compare it to the baseline to validate savings. An annual visual inspection of a sample of units will occur to ensure the equipment is still in place and operational.

Formulas and values in the DEA will be used to calculate the savings

ECM 14: Vending Machine Controllers

M&V Option: NEMVP-A (One Time)

Verification Boundary: Retrofit isolation – Project savings will be determined within the measurement boundary that encompasses only the items that are subject to this vending machine controller project.

Verification Period & Frequency: One time post-retrofit period. Inspection checks for rest of the Guarantee Period.

Post- Verification Procedure:

A digital camera will be used to document the post-retrofit conditions. Inspect and verify the vending machine controller installation to see if they meet the specifications of the DEA in terms of quantity, quality and rating. Verify if they perform in accordance with the functional specifications in the DEA and meeting all functional tests. An annual visual inspection of a sample of units will occur to ensure the equipment is still in place and operational.

Formulas and values in the DEA will be used to calculate the savings

ECM 15: Heating System - DHW Replacement

M&V Option: NEMVP-C, gas in year 1. For years 2-18 gas will be NEMVP-A, provided Option C is achieved in Year 1.

Measurement Boundary: Retrofit isolation – Project savings will be determined within the measurement boundary that encompasses only the items that are subject to this Refrigerator Equipment Upgrade ECM.

Verification Period & Frequency: One time post-retrofit period. Inspection checks for rest of the Guarantee Period.

Post-Installation Activities:

The size and performance of the installed equipment as shown on the name plate will be verified against design specifications. A digital camera will be used to document the post-retrofit conditions.

Formulas and values in the DEA will be used to calculate the savings

ECM 16: AC Compressor Controllers

M&V Option: NEMVP-A (One Time)

Verification Boundary: Retrofit isolation – Project savings will be determined within the measurement boundary that encompasses only the items that are subject to air conditioning compressor controller project.

Interaction: Electric ECMs.

Verification Period & Frequency: One time post-retrofit period. Inspection checks for rest of the Guarantee Period.

Post-Installation Activities:

A digital camera will be used to document the post- retrofit conditions. Inspect and verify the air conditioning compressor controller installation to see if they meet the specifications of the DEA in terms of quantity. Verify if they perform in accordance with the functional specifications in the contract and meeting all functional tests.

Formulas and values in the DEA will be used to calculate the savings

2.2.3 NEMVP Option B M&V Plan:

**NEMVP Option B: Retrofit Isolation
Potential to Perform Verification and Continuous Performance Measurement**

Option B is for projects where: i) the potential to perform and generate savings needs to be verified, and ii) actual performance during the term of the contract needs to be measured (verified). Option B involves procedures for verifying the same items as Option A plus actual achieved energy savings during the term of the Guarantee Period. Performance verification techniques involve engineering calculations with metering and monitoring. Option B:

- Confirms that the proper equipment/systems were installed and that they have the potential to generate the predicted savings.
- Determines an energy (and cost) savings value using measured data taken throughout the term of the contract.

Methods employed in this option will involve the use of long-term measurement of one or more variables.

Table 2.2.3.1: Option B Measures

ECM #	Proposed Measures	M&V Option
ECM 5.1	Energy Management System - Temperature Setback / Optimal Start	B
ECM 5.2	Energy Management System - Demand Controlled Ventilation	B
ECM 5.3	Energy Management System - Relief Hood / Gravity Damper Controls	B
ECM 12	Renewable Energy- Photovoltaic Generation	B

ECM 5.1: Energy Management System - Temperature Setback / Optimal Start

M&V Option: NEMVP-B (Continuous), electric all years. NEMVP-C, gas in year 1. For years 2-18 gas will be NEMVP-A, provided Option C is achieved in Year 1.

Measurement Boundary: Retrofit isolation – Project savings will be determined within the measurement boundary that encompasses only the space temperatures and unit statuses affected by the energy project.

Measured Parameter: Continuous measurement of a sample set of space temperatures, space temperature set points, outdoor air temperature, and unit statuses.

Interaction: Demand Control Ventilation (DCV)

Measuring Equipment: Energy Management System

Measurement Period: 15 minute samples

Measurement Frequency: Continuous measurement

Measurement and Verification Details:

Post-Installation Activities:

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Energy Management system will continuously monitor post-retrofit outdoor air, space temperature and unit status. The date-time stamp will be included to differentiate occupied/unoccupied and summer/winter periods. Johnson Controls will also monitor and record the setpoint changes during the Guarantee Period.

Formulas and values in the DEA will be used to calculate the savings

ECM 5.2: Energy Management System - Demand Controlled Ventilation

M&V Option: NEMVP-B (Continuous), electric all years. NEMVP-C, gas in year 1. For years 2-18 gas will be NEMVP-A, provided Option C is achieved in Year 1.

Measurement Boundary: Retrofit isolation – Project savings will be determined within the measurement boundary that encompasses only the DCV ECM affected by the energy project.

Measured Parameter: Continuous measurement of a sample set of CO2 levels and damper position

Interaction: with temperature setback and optimal start.

Measuring Equipment: Energy Management System

Measurement Period: 15 minute samples

Measurement Frequency: Continuous measurement

Measurement and Verification Details:

Post-Installation Activities:

Energy Management system will continuously monitor post-retrofit CO2 levels, outside air temperature, and outside air damper position. The date-time stamp will be included to differentiate occupied/unoccupied and summer/winter periods.

Formulas and values in the DEA will be used to calculate the savings

ECM 5.3: Energy Management System - Relief Hood / Gravity Damper Controls

M&V Option: NEMVP-B (Continuous), electric all years. NEMVP-C, gas in year 1. For years 2-18 gas will be NEMVP-A, provided Option C is achieved in Year 1.

Measurement Boundary: Retrofit isolation – Project savings will be determined within the measurement boundary that encompasses only the Relief Hood/Gravity Damper Controls affected by the energy project.

Measured Parameter: Continuous measurement of damper open/closed status and occupancy status.

Interaction: with temperature setback and optimal start.

Measuring Equipment: Energy Management System

Measurement Period: 15 minute samples

Measurement Frequency: Continuous measurement

Measurement and Verification Details:

Post-Installation Activities:

Energy Management system will continuously monitor damper open/closed status and occupancy status. The date-time stamp will be included.

Formulas and values in the DEA will be used to calculate the savings

ECM 12: Renewable Energy- Photovoltaic Electric Generation

M&V Option: NEMVP-B (Continuous)

Verification Boundary: Retrofit isolation – Project savings will be determined within the measurement boundary that encompasses only the items that are subject to this photovoltaic electric generation project.

Measuring Equipment: PV dashboard will be capable of logging 15 minute interval data for kW, kWh and solar irradiance.

Interaction: Electrical System

Key Parameter	Measurement Frequency	Measurement Description (including sampling plan)
Electricity Generated (kW and kWh)	Continuous	The amount of electricity generated (kW and kWh) will be verified using data from the inverter. Measurements from all the panels installed by the project will be used.
Sunshine for Normalization (Measured as irradiance (kWh/m ²))	Continuous	<p>Average expected Irradiance data for Long Island, NY is used to calculate the contract savings.</p> <p>During the Guarantee Period, the actual Irradiance will be measured using a pyrometer. The value will be totalized, and the totalized value will be recorded on an hourly basis. Data will be reviewed at least quarterly.</p> <p>The actual generated power will be normalized using the expected irradiance assumption in the contract (shown in the Table below) and the actual measured irradiance.</p>

The energy production guarantee shall assume the monthly baseline (reference) solar irradiance as shown above. On a monthly basis, the average amount of electricity produced per kWh/m² of solar irradiance will be calculated and the savings will be adjusted accordingly:

The energy production guarantee shall assume the monthly baseline (reference) solar irradiance as shown above. On a monthly basis, the average amount of electricity produced per kWh/m² of solar irradiance will be calculated and the savings will be adjusted accordingly:

$$kWh_{Adjusted} = (kWh_{measured}) \left(\frac{kWh/m^2_{contract}}{kWh/m^2_{measured}} \right) (\%RSS_{adjusted})$$

Where kWh/m² is the irradiance. The achieved dollar savings shown in Table 2.3 are based on the rates shown in Exhibit 6.

$$\%RSS_{Month} = \left(\frac{Irradiance (kWh/m^2)_{Month}}{Irradiance (kWh/m^2)_{Total}} \right)$$

$$\%RSS_{adjusted} = \sum_{1-12}^{Month} (\%RSS_{Month}) \left(\frac{Days_{Month} - (Days_{offline}) \left(\frac{Panels_{offline}}{Panels_{total}} \right)}{Days_{Month}} \right)$$

Where %RSS_{month} = Percentage of the total annual solar resource for that month
 Days_{month} = number of days in that month, Days_{offline} = number of days each inverter is offline
 Panels_{offline} = number of panels offline, Panels_{total} = total number of panels installed

kWh impact of any production factors that occur during the measurement period. Production factors are defined as events outside JCI control that has the effect of reducing kWh generation or failures in system operation due to maintenance that influences data collection and recording for complete and accurate data pertaining to production and weather. Other production factors include, but are not limited to, physical obstructions or interference with the solar irradiation of each array (i.e. over shadowing or shading), snow-frost-ice, utility grid outages, outages directed by the owner-customer, casualty events, Force Majeure events, theft, vandalism, equipment failure, DAS failure (lost connection or data), or utility system permit events (system disabled).

Formulas and values in the DEA will be used to calculate the savings.

EXHIBIT 3: Measured Project Benefits

Table 2.3.1 below defines and describes the ECMs included in this guarantee that comprise Measured Utility Cost Avoidance savings:

Table 2.3.1: Measured Project Benefits Summary

ECM #	Proposed Measures	Electricity Savings			Thermal Savings		Total Savings
		kW	kWh/yr	\$/yr	MMBtu/yr	\$/yr	\$/yr
ECM 1	Lighting - Interior Retrofit	321	920,677	\$173,908	(2,045)	(\$17,663)	\$156,244
ECM 2	Lighting - Exterior Retrofit	0	91,837	\$13,567	0	\$0	\$13,567
ECM 3	Building Envelope - Weatherization	0	3,696	\$553	2,791	\$24,307	\$24,860
ECM 4	Window Film	0	43,414	\$6,446	7,597	\$65,756	\$72,202
ECM 5.1	Energy Management System - Temperature Setback	0	0	\$0	7,908	\$68,885	\$68,885
ECM 5.2	Energy Management System - Demand Controlled Ventilation	0	6,623	\$944	1,247	\$10,495	\$11,438
ECM 5.3	Energy Management System - Relief Hood / Gravity Damper Controls	0	2,080	\$308	402	\$3,503	\$3,811
ECM 6	Pumping System - VFD on HW Pumps	0	19,500	\$2,885	0	\$0	\$2,885
ECM 7	Heating System - Boiler Replacement	0	0	\$0	6,001	\$50,704	\$50,704
ECM 8	Heating System - Pipe and Valve Insulation	0	0	\$0	1,158	\$10,024	\$10,024
ECM 9	Refrigeration Compressor Controllers	0	12,640	\$1,848	0	\$0	\$1,848
ECM 10	Water Conservation	0	163	\$24	2,167	\$18,586	\$18,610
ECM 11	Refrigerator Equipment Upgrades	0	38,791	\$5,705	0	\$0	\$5,705
ECM 12	Renewable Energy- Photovoltaic Generation	0	1,454,452	\$215,934	0	\$0	\$215,934
ECM 13	Plug Load Controllers	0	234,272	\$34,803	0	\$0	\$34,803
ECM 14	Vending Machine Controllers	0	20,742	\$3,101	0	\$0	\$3,101
ECM 15	Heating System - DHW Replacement	0	0	\$0	281	\$2,343	\$2,343
ECM 16	AC Compressor Controllers	0	25,782	\$3,697	0	\$0	\$3,697
	Totals	321	2,874,668	\$463,724	27,508	\$236,939	\$700,663

Table 2.3.2: Detailed breakdown required by 8 N.Y.C.R.R. §155.20(d)(4)

Table 2.3.2 represents the detailed breakdown set forth in 8 N.Y.C.R.R. §155.20(d). Said chart is subject to modification based upon review by SED. All modifications to this Table must be submitted to the Customer for its written approval.

ECM #	Proposed Measure	Energy Savings	Costs	Payback
ECM 1	Lighting - Interior Retrofit	\$156,244	\$1,903,646	12.2
ECM 2	Lighting - Exterior Retrofit	\$13,567	\$245,524	18.1
ECM 3	Building Envelope - Weatherization	\$24,860	\$332,284	13.4
ECM 4	Window Film	\$72,202	\$630,431	8.7
ECM 5.1	Energy Management System - Temperature Setback	\$68,885	\$1,221,207	17.7
ECM 5.2	Energy Management System - Demand Controlled Ventilation	\$11,438	\$4,492	0.4
ECM 5.3	Energy Management System - Relief Hood / Gravity Damper Control	\$3,811	\$36,254	9.5
ECM 6	Pumping System - VFD on HW Pumps	\$2,885	\$38,705	13.4
ECM 7	Heating System - Boiler Replacement	\$50,704	\$5,542,817	109.3
ECM 8	Heating System - Pipe and Valve Insulation	\$10,024	\$120,751	12.0
ECM 9	Refrigeration Compressor Controllers	\$1,848	\$14,576	7.9
ECM 10	Water Conservation	\$18,610	\$126,299	6.8
ECM 11	Refrigerator Equipment Upgrades	\$5,705	\$115,001	20.2
ECM 12	Renewable Energy- Photovoltaic Generation	\$215,934	\$3,873,860	17.9
ECM 13	Plug Load Controllers	\$34,803	\$101,800	2.9
ECM 14	Vending Machine Controllers	\$3,101	\$8,915	2.9
ECM 15	Heating System - DHW Replacement	\$2,343	\$130,186	55.6
ECM 16	AC Compressor Controllers	\$3,697	\$8,455	2.3
Annual Energy Savings		\$700,663		
Annual O&M Savings		\$144,738		
Arch./Engineering Fees		\$433,656		
Total Project Cost		\$14,888,858		
Rebates		\$174,750		
Simple Payback (Yrs)		17.40		

**The Architectural/Professional Fees as set forth at Schedule 4 are included within the above costs.

EXHIBIT 4: Operational & Maintenance (O&M) AND Rebate Project Benefits**Operational Cost Avoidance:****M&V Option: NEMVP-A**

For measures where the baseline (or boundary) is well understood, and measure operating hours are not currently expected to change, only the "change in equipment performance" is needed in order to calculate the savings (or cost avoidance). Therefore, the Operation and Maintenance savings accruing to the benefit of the School District is as follows:

Lighting Operational Cost Avoidance is calculated by comparing the existing lamp and ballast average failure rate and replacement cost with the proposed project replacement lamp and ballast average failure rate and replacement cost. Lighting operating hours are not expected to change. The total average annual savings is \$24,738.

Boiler Operational Cost Avoidance is calculated by comparing the cost of repairing the existing boilers versus the newly installed boilers. The reduction in repairs to the new boilers is deemed to be the cost avoidance. The average annual savings for all schools is determined to be \$120,000.

Total Operational Cost Avoidance: \$144,738

Guaranteed Energy Rebates/Incentives:**PSEGLI/National Grid Rebates: \$174,750**

JCI will apply for utility company rebates programs at the time of application. JCI hereby guarantees the rebate amount of \$174,750 and if the Customer receives a rebate less than the guaranteed amount then JCI will pay the difference in rebates to the Customer within thirty (30) days. All rebates and incentives shall inure to the benefit of Customer. All rebates and/or incentives shall be payable to Customer. JCI shall be responsible for assuring that said rebates/incentives and payments for rebate deficits are promptly distributed to Customer within the time periods specified in the cash flow statement at Attachment 10 as approved by the Customer. In the event that the guaranteed rebates are not received by the Customer within the time periods specified in the cash flow statements, JCI shall immediately pay to the District the amount of such rebate within the time period specified in the cash flow statement. Notwithstanding the foregoing, if (a) the rebate is not distributed to the Customer within the specified time period, (b) JCI therefore pays \$174,750 to the Customer and (c) the rebate is subsequently issued for the Project, the Customer shall transfer and pay to JCI the amount of such rebate, provided that the Customer retains any rebate amount in excess of \$174,750.

Accordingly, if the rebate amount is greater than \$174,750, such excess shall inure to the benefit of the Customer and such excess shall not be counted toward the Annual Project Benefits for any year of the Agreement or the Total Project Benefits. JCI shall be responsible for providing all documentation concerning rebates to the Customer and for providing the Customer with an accounting of all rebates applied for and received.

EXHIBIT 5: Changes in Use or Condition**ADJUSTMENT TO BASELINE
AND/OR ANNUAL PROJECT BENEFITS**

Customer agrees to notify JCI, within fourteen (14) days, of (i) any actual or intended change, whether before or during the Guarantee Term, in the use of any facility, equipment, or Improvement Measure to which this Schedule applies; (ii) any proposed or actual expansions or additions to the premises or any building or facility at the premises, except for those capital improvements for which JCI is aware of as of the date of the execution of this Agreement, including any capital project being undertaken by the Customer; (iii) a change to utility services to all or any portion of the premises; or (iv) any other change or condition arising before or during the Guarantee Term that reasonably could be expected to change the amount of Project Benefits realized under this Agreement.

Such a change, expansion, addition, or condition is defined as: (a) changes in the primary use of any facility, Improvement Measure, or portion of the premises; (b) changes to the hours of operation of any facility, Improvement Measure, or portion of the premises; (c) changes or modifications to the Improvement Measures or any related equipment; (d) changes to the M&V Services provided under this Agreement; (e) known failure of any portion of the premises to meet building codes; (f) changes in utility suppliers, utility rates, known method of utility billing, or method of utility purchasing; (g) insufficient or improper maintenance not in accordance with manufacturers recommendations of the Improvement Measures or any related equipment at any facility or portion of the premises (other than by JCI); (h) changes to the Improvement Measures or any related equipment or to any facility or portion of the premises required by building codes or any governmental or quasi-governmental entity; or (i) additions or deletions of Improvement Measures or any related equipment at any facility or portion of the premises. The Option C Baseline Adjustment form at Appendix 4 shall be utilized for identifying the foregoing changes, expansions, additions, or conditions for Option C verification methodology years.

Upon receipt of such notice, or if JCI independently learns of any such change or condition, JCI shall calculate and send to Customer a notice of adjustment to the Baseline and/or Annual Project Benefits to reflect the impact of such change or condition, and the adjustment shall become effective as of the date the change or condition first arose provided, however that Customer shall have thirty (30) days following its receipt of the notice to review and approve such adjustment, which approval shall not be unreasonably withheld, conditioned or delayed.

EXHIBIT 6: Baseline Calculations and Utility Rates

The unit utility costs for the Baseline period are set forth below as “Base Utility Cost” and shall be used for all calculations made under this Schedule. The Base Utility Cost shall be escalated annually by the actual utility cost escalation but such escalation shall be no less than the mutually agreed “floor” escalation rate of two percent (2%). The Base Utility Cost for each type of utility represents the 12 month average utility costs from July 1, 2017 through June 30, 2018, unless the time period used is otherwise modified by SED or requested by the Customer.

Table 2.6.1: Baseline Electrical Consumption Data & Rates

Building	Demand kW	Avg kW Cost	Electric Usage kWh	Usage kWh Cost	Unblended \$/kWh	Total Electric Cost	Cost per kWh (BEER)
Walt Whitman High School	497	\$13.65	1,598,276	\$227,768	\$0.14	\$309,195	\$0.19
Memorial Junior High School	123	\$11.61	432,271	\$63,151	\$0.15	\$80,348	\$0.19
Henry L. Stimson Middle School	208	\$11.89	710,737	\$105,156	\$0.15	\$134,810	\$0.19
Silas Wood Sixth Grade Center	159	\$12.28	429,447	\$66,899	\$0.16	\$90,373	\$0.21
Birchwood Intermediate School	144	\$10.89	413,469	\$63,212	\$0.15	\$82,061	\$0.20
Maplewood Intermediate School	122	\$11.27	383,914	\$60,498	\$0.16	\$76,987	\$0.20
Countrywood Primary Center	162	\$11.67	462,200	\$67,453	\$0.15	\$90,184	\$0.20
Oakwood Primary Center	148	\$11.75	490,521	\$73,876	\$0.15	\$94,718	\$0.19
James Kaden Administrative Offices	70	\$12.43	211,440	\$34,075	\$0.16	\$44,566	\$0.21
Totals	1,634	\$11.94	5,132,275	\$762,088	\$0.15	\$1,003,241	\$0.20

The above rates shown in Table 2.6.1 will be known as **Floor Electrical Rates**, for the purpose of the Assured Performance Guarantee. The annual calculated electric rates are expected to increase every year. In the event that the annual rates are lower than the above baseline rates, the 2% escalated floor rates will be substituted for the annual calculated rate.

The Electric Rates will be averaged over the course of the one-year baseline period, as provided by Customer. In turn, the Incremental Electric Rate (IER), and the Demand Rate (DR) will be averaged annually over the course of the reporting periods, as reflected on actual utility invoices, for equitable cost avoidance savings reporting.

The following formula will be used to calculate the current reporting period Incremental Energy Rate (IER):

FORMULA B-2

$$IER = \frac{\sum TKC_{1-12}}{\sum TKWH_{1-12}}$$

Where:

IER: Incremental Electrical Rate (Dollars per kWh)

$\sum TKC_{1-12}$: Sum Total of Monthly Electrical Utility Costs (Dollars) for kWh included Fuel Adjustment Cost and other related Energy Charges for Months 1 Through 12 of the current reporting period.

$\sum TKWH_{1-12}$: Sum Total of Monthly Electrical Incremental Use (kWh) for Months 1 Through 12 of the current reporting period.

The following formula will be used to calculate the current reporting period Incremental Demand Rate (DR):

FORMULA B-3

$$DR = \frac{\sum TKC_{1-12}}{\sum TKWH_{1-12}}$$

Where:

DR: Demand Electrical Rate (Dollars per kW)

$\sum TKC_{1-12}$: Sum Total of Monthly Electrical Utility Costs (Dollars) for kW included Fuel Adjustment Cost and other related Energy Charges for Months 1 Through 12 of the current reporting period.

$\sum TKW_{1-12}$: Sum Total of Monthly Electrical Demand Use (kW) for Months 1 Through 12 of the current reporting period.

Table 2.6.2: Baseline Gas Consumption Data & Rates

Building	Gas Usage Therms	Gas Cost	Cost per Therm
Walt Whitman High School	166,349	\$140,034	\$0.84
Memorial Junior High School	92,268	\$76,816	\$0.83
Henry L. Stimson Middle School	61,664	\$53,684	\$0.87
Silas Wood Sixth Grade Center	39,466	\$34,602	\$0.88
Birchwood Intermediate School	45,277	\$39,500	\$0.87
Maplewood Intermediate School	42,084	\$36,776	\$0.87
Countrywood Primary Center	42,852	\$39,236	\$0.92
Oakwood Primary Center	47,248	\$40,747	\$0.86
James Kaden Administrative Offices	27,741	\$26,864	\$0.97
Totals	564,949	\$488,260	\$0.88

The above rates shown above in Table 2.6.2 will be known as **Floor Natural Gas Rates**, for the purpose of the Assured Performance Guarantee. The annual calculated natural gas rates are expected to increase every year. In the event that the annual rates are lower than the above baseline rates, the 2% escalated floor rates will be substituted for the annual calculated rate.

The natural gas unit costs have been averaged over the course of the one-year period. In turn, unit costs will be averaged over the course of the reporting period, as reflected on utility invoices, for equitable cost avoidance savings reporting.

The following formulas will be used to calculate the current reporting period Fuel Rate(s) for Natural Gas:

FORMULA G-1

$$\text{NGR} = \frac{\sum_{1-12} \text{TCG}}{\sum_{1-12} \text{TGU}}$$

Where:

NGR: Natural Gas Rate (\$/Therm)

\sum_{1-12} : Sum Total of Monthly Gas Costs (\$)

\sum_{1-12} : Sum Total of Monthly Gas Purchased (Therms) for Months 1 Through 12 of the reporting period.

EXHIBIT 7: Primary Operations Schedule Pre & Post Retrofit**Table 2.7.1: District Wide Pre and Post Temperature Schedule & District wide Operational Schedule**

This Section documents the pre-retrofit and post-retrofit set points, building operation hours, equipment list, and building occupancy. The Customer understands that it needs to operate the post-retrofit building as documented in this section to achieve the guaranteed project savings.

Building Space Temperature Set points:

Building	Summer Inside Setpoint (F)			
	Existing Occupied	Existing Unoccupied	Proposed Occupied	Proposed Unoccupied
Walt Whitman High School	72	78	72	78
Memorial Junior High School	72	78	72	78
Henry L. Stimson Middle School	72	78	72	78
Silas Wood Sixth Grade Center	72	78	72	78
Birchwood Intermediate School	72	78	72	78
Maplewood Intermediate School	72	78	72	78
Countrywood Primary Center	72	78	72	78
Oakwood Primary Center	72	78	72	78
James Kaden Administrative Offices	72	78	72	78

Building	Winter Inside Setpoint (F)			
	Existing Occupied	Existing Unoccupied	Proposed Occupied	Proposed Unoccupied
Walt Whitman High School	75	68	72	55
Memorial Junior High School	75	68	72	55
Henry L. Stimson Middle School	75	68	72	55
Silas Wood Sixth Grade Center	75	68	72	55
Birchwood Intermediate School	75	68	72	55
Maplewood Intermediate School	75	68	72	55
Countrywood Primary Center	75	68	72	55
Oakwood Primary Center	75	68	72	55
James Kaden Administrative Offices	75	68	72	55

Baseline and Post-Retrofit Occupancy/HVAC Schedules:

Building	Occupancy Hours/Day		
	Midnight – 8AM	8AM – 4PM	4PM – Midnight
Walt Whitman High School	2	8	8
Memorial Junior High School	2	8	6
Henry L. Stimson Middle School	2	8	6
Silas Wood Sixth Grade Center	2	8	6
Birchwood Intermediate School	2	8	6

Schedule 2

Maplewood Intermediate School	2	8	6
Countrywood Primary Center	2	8	6
Oakwood Primary Center	2	8	6
James Kaden Administrative Offices	2	8	6

Total number of occupied days to be used for the school year is 246 for Walt Whitman HS and 205 for all other buildings. Total number of occupied days to be used for summer school is 35.

Building occupancy each month:

Month	Weeks/Month
Jan	4.43
Feb	4.00
Mar	4.43
Apr	4.29
May	4.43
Jun	2.00
Jul	0.00
Aug	0.00
Sep	4.29
Oct	4.43
Nov	4.29
Dec	4.43

Baseline Facility Foot Print:

Name	Sq-ft
Walt Whitman High School	226,440
Memorial Junior High School	95,570
Henry L. Stimson Middle School	135,865
Silas Wood Sixth Grade Center	65,720
Birchwood Intermediate School	62,240
Maplewood Intermediate School	62,060
Countrywood Primary Center	72,816
Oakwood Primary Center	65,860
James Kaden Administrative Offices	43,264
Total	829,835

Baseline Student Population:

Name	# of Students	# of Teachers/ Professional Staff
Walt Whitman High School	1,926	175
Memorial Junior High School	637	85
Henry L. Stimson Middle School	956	87
Silas Wood Sixth Grade Center	450	46
Birchwood Intermediate School	623	66
Maplewood Intermediate School	639	62
Countrywood Primary Center	591	53
Oakwood Primary Center	592	57
James Kaden Administrative Offices	50	75
Total	6,464	706

Baseline Equipment List:

Note: Any equipment that was not operated during the baseline and is operated during guarantee years will be considered a baseline adjustment. This also applies to equipment that was not operated per code.

Exhaust Fans:

Building	Location	Area-System Served	Equipment Name	Supply Air (CFM)	Horsepower
Birchwood Intermediate School	Roof	1st & 2nd Floor Toilets	Exhaust Fan	3850	0.50
Birchwood Intermediate School	Roof	2nd Floor Corridor	Exhaust Fan	4260	0.33
Birchwood Intermediate School	Roof	Administration	Exhaust Fan	1322	0.17
Birchwood Intermediate School	Roof	Athletic Instruction	Exhaust Fan	2380	0.17
Birchwood Intermediate School	Roof	Boys Locker Room	Exhaust Fan	2250	0.25
Birchwood Intermediate School	Fan Room 2nd Floor	Cafetorium Exhaust	Cafetorium Exhaust Fan		1.50
Birchwood Intermediate School	Roof	Corridor	Exhaust Fan	4185	0.50
Birchwood Intermediate School	Roof	Corridor	Exhaust Fan	4185	0.50
Birchwood Intermediate School	Fan Room 2nd Floor	Gym Exhaust	Gym Exhaust Fan		2.00
Birchwood Intermediate School	Roof	Kindergarten	Exhaust Fan	3740	0.17
Birchwood Intermediate School	Roof	Kindergarten Corridor	Exhaust Fan	1743	0.33
Birchwood Intermediate School	Roof	Kitchen	Exhaust Fan	3740	1.00
Birchwood Intermediate School	Roof	Kitchen	Exhaust Fan	1920	0.25
Birchwood Intermediate School	Roof	Primary Corridor	Exhaust Fan	5250	0.50
Birchwood Intermediate School	Roof	Toilet	Exhaust Fan	1030	0.17
Birchwood Intermediate School	Roof	Toilets	Exhaust Fan	2560	0.33
Birchwood Intermediate School	Roof	Workroom	Exhaust Fan	340	0.17

Schedule 2

Building	Location	Area-System Served	Equipment Name	Supply Air (CFM)	Horsepower
James Kaden Administrative Offices	Boiler Room	Boiler Room Exhaust	Boiler Exhaust		0.75
James Kaden Administrative Offices	Boiler Room	Boiler Room Exhaust	Boiler Exhaust		0.75
James Kaden Administrative Offices	Roof	Boys' Girls' Toilets	Exhaust Fan	1050	0.25
James Kaden Administrative Offices	Roof	Cafetorium	Exhaust Fan	2547	0.75
James Kaden Administrative Offices	Roof	Classroom Toilet	Exhaust Fan	605	0.25
James Kaden Administrative Offices	Roof	Classroom Toilets	Exhaust Fan	605	0.17
James Kaden Administrative Offices	Roof	Classroom Toilets	Exhaust Fan	605	0.33
James Kaden Administrative Offices	Roof	Dishwasher	Exhaust Fan	555	0.17
James Kaden Administrative Offices	Roof	Gym Toilet	Exhaust Fan	1800	0.25
James Kaden Administrative Offices	Roof	Office Area	Exhaust Fan	1250	0.25
James Kaden Administrative Offices	Roof	Ranehood	Exhaust Fan	1600	0.25
Maplewood Intermediate School	Roof	1st & 2nd Floor Toilets	Exhaust Fan	3850	0.50
Maplewood Intermediate School	Roof	2nd Floor Corridor	Exhaust Fan	4260	0.33
Maplewood Intermediate School	Roof	2nd Floor Corridor	Exhaust Fan	4185	0.50
Maplewood Intermediate School	Roof	2nd Floor Corridor	Exhaust Fan	4185	0.50
Maplewood Intermediate School	Roof	Administration	Exhaust Fan	1322	0.17
Maplewood Intermediate School	Roof	Athletic Instruction	Exhaust Fan	2380	0.17
Maplewood Intermediate School	Roof	Boys Locker Room	Exhaust Fan	2250	0.25
Maplewood Intermediate School	Fan Room 2nd Floor	Cafetorium Exhaust	Cafetorium Exhaust Fan		1.50
Maplewood Intermediate School	Fan Room 2nd Floor	Gym Exhaust	Gym Exhaust Fan		2.00
Maplewood Intermediate School	Roof	Kindergarten	Exhaust Fan	3740	0.17
Maplewood Intermediate School	Roof	Kindergarten Corridor	Exhaust Fan	1743	0.33
Maplewood Intermediate School	Roof	Kitchen	Exhaust Fan	3740	1.00
Maplewood Intermediate School	Roof	Kitchen	Exhaust Fan	1920	0.25
Maplewood Intermediate School	Roof	Primary Corridor	Exhaust Fan	5250	0.50
Maplewood Intermediate School	Roof	Toilet	Exhaust Fan	1030	0.17
Maplewood Intermediate School	Roof	Toilets	Exhaust Fan	2560	0.33

Schedule 2

Building	Location	Area-System Served	Equipment Name	Supply Air (CFM)	Horsepower
Maplewood Intermediate School	Roof	Workroom	Exhaust Fan	340	0.17
Oakwood Primary Center	Roof	1st Floor Classrooms	Exhaust Fan	3050	0.75
Oakwood Primary Center	Roof	1st Floor Toilets	Exhaust Fan	500	0.13
Oakwood Primary Center	Roof	2nd Floor Classrooms	Exhaust Fan	2810	0.50
Oakwood Primary Center	Roof	2nd Floor Corridor	Exhaust Fan	4260	0.50
Oakwood Primary Center	Roof	2nd Floor Toilets	Exhaust Fan	750	0.13
Oakwood Primary Center	Roof	Administration	Exhaust Fan	1322	0.25
Oakwood Primary Center	Fan Room 2nd Floor	Cafetorium Exhaust	Cafetorium Exhaust Fan		1.50
Oakwood Primary Center	Roof	Can Wash Room	Exhaust Fan	100	0.04
Oakwood Primary Center	Roof	Dishwasher Hood	Exhaust Fan	1300	0.25
Oakwood Primary Center	Roof	Dressing Room/Showers	Exhaust Fan	950	0.17
Oakwood Primary Center	Roof	Faculty Room	Exhaust Fan	2560	0.33
Oakwood Primary Center	Roof	Forum	Exhaust Fan	3100	0.50
Oakwood Primary Center	Fan Room 2nd Floor	Gym Exhaust	Gym Exhaust Fan		2.00
Oakwood Primary Center	Roof	Kindergarten	Exhaust Fan	840	0.50
Oakwood Primary Center	Roof	Kindergarten Corridor	Exhaust Fan	1743	0.17
Oakwood Primary Center	Roof	Kitchen Hood	Exhaust Fan	5100	1.50
Oakwood Primary Center	Roof	Library & AV Room	Exhaust Fan	320	0.08
Oakwood Primary Center	Roof	Music Room	Exhaust Fan	330	0.08
Oakwood Primary Center	Roof	Primary Corridor	Exhaust Fan	5250	0.50
Oakwood Primary Center	Roof	Toilets	Exhaust Fan	3850	0.17
Silas Wood Sixth Grade Center	Roof	1st 2nd Floor Room Toilets	Exhaust Fan	300	0.25
Silas Wood Sixth Grade Center	Roof	1st Floor Room Toilets	Exhaust Fan	750	0.17
Silas Wood Sixth Grade Center	Roof	2nd Floor Corridor	Exhaust Fan	5240	0.50
Silas Wood Sixth Grade Center	Roof	2nd Floor Girls Toilet	Exhaust Fan	800	0.17
Silas Wood Sixth Grade Center	Roof	2nd Floor Teachers Room	Exhaust Fan	1625	0.17
Silas Wood Sixth Grade Center	Roof	Auditorium Exhaust	Exhaust Fan	10000	2.00
Silas Wood Sixth Grade Center	Roof	Boys Locker Room	Exhaust Fan	924	0.50
Silas Wood Sixth Grade Center	Roof	Gym	Exhaust Fan	4220	0.50
Silas Wood Sixth Grade Center	Roof	Kitchen	Exhaust Fan	4490	1.00
Silas Wood Sixth Grade Center	Roof	Kitchen Dishwasher	Exhaust Fan	882	0.17
Silas Wood Sixth Grade Center	Roof	Library	Exhaust Fan	2630	0.50
Silas Wood Sixth Grade Center	Roof	Music Room	Exhaust Fan	565	0.08

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Schedule 2

Building	Location	Area-System Served	Equipment Name	Supply Air (CFM)	Horsepower
Silas Wood Sixth Grade Center	Roof	Stage	Exhaust Fan	300	0.33
Silas Wood Sixth Grade Center	Roof	Toilets	Exhaust Fan	15000	1.00
Stimson Middle School	Roof	Admin Storage	E-1B	460	0.13
Stimson Middle School	Roof	Boys Lockers	E-1C	2200	0.50
Stimson Middle School	Roof	Conference Room	E-4B	750	0.17
Stimson Middle School	Roof	Conference Room & Student ACT	E-6A	995	0.25
Stimson Middle School	Roof	Conference Room 254	E-4A	550	0.08
Stimson Middle School	Roof	Conference Room 262	E-5A	550	0.08
Stimson Middle School	Roof	Dishwasher	E-20A	1800	0.33
Stimson Middle School	Roof	Girls Lockers	E-2C	2050	0.50
Stimson Middle School	Roof	Homemaking 250	E-19A	1000	0.33
Stimson Middle School	Roof	Homemaking 247	E-11A	1000	0.17
Stimson Middle School	Roof	Homemaking 248	E-12A	1200	0.25
Stimson Middle School	Roof	Janitor Closet & Transe. Room	E-3C	425	0.17
Stimson Middle School	Roof	Kitchen Hood	E-8A	7200	2.00
Stimson Middle School	Roof	Laundry & Storage	E-10A	700	0.13
Stimson Middle School	Roof	Practice Rooms	E-7A	1030	0.25
Stimson Middle School	Roof	Projection Booth	E-16A	500	0.04
Stimson Middle School	Roof	Refuse Room	E-17A	200	0.13
Stimson Middle School	Roof	Science	E-1A	1650	0.33
Stimson Middle School	Roof	Shop Hoods	E-14A	2800	0.75
Stimson Middle School	Roof	Shop Hoods	E-15A	2800	0.08
Stimson Middle School	Roof	Shop Hoods	E-2A	2800	0.75
Stimson Middle School	Roof	Switchgear Room	E-21A	900	0.33
Stimson Middle School	Roof	Teachers Room 218	E-18A	660	0.17
Stimson Middle School	Roof	Teachers Room 236	E-13A	1130	0.75
Stimson Middle School	Roof	Teachers Room 423	E-6B	600	0.13
Stimson Middle School	Roof	Toilets	E-2B	575	0.13
Stimson Middle School	Roof	Toilets	E-3A	1585	0.33
Stimson Middle School	Roof	Toilets	E-3B	400	0.13
Stimson Middle School	Roof	Toilets	E-5B	2150	0.50
Stimson Middle School	Roof	Toilets	E-9A	210	0.17

Schedule 2

Building	Location	Area-System Served	Equipment Name	Supply Air (CFM)	Horsepower
Whitman High School	Fan Room (Above Girls Locker Room)	Boys Locker Room	Exhaust Fan E8	8430	1.50
Whitman High School	Fan Room (Above Girls Locker Room)	Corrective Gym	Exhaust Fan E6	1956	0.50
Whitman High School	Fan Room (Above Girls Locker Room)	Girls Locker Room	Exhaust Fan E10	10062	2.00
Whitman High School	Fan Room (Above Girls Locker Room)	Gym	Exhaust Fan E4	19278	5.00

Supply Fans:

Building	Location	Equipment Type	Area-System Served	Equipment Name	Supply Air (CFM)	Horsepower
Birchwood Intermediate School	Fan Room 2nd Floor	Supply Fan	Cafetorium Supply	Cafetorium Supply Fan		2
Birchwood Intermediate School	Fan Room 2nd Floor	Supply Fan	Gym Supply	Gym Supply Fan		3
Countrywood Intermediate School	Above Custodial	Supply Fan	Auditorium Supply			
Countrywood Intermediate School	Cafeteria Closet	Supply Fan	Cafeteria Supply			
Maplewood Intermediate School	Fan Room 2nd Floor	Supply Fan	Cafetorium Supply	Cafetorium Supply Fan		2
Maplewood Intermediate School	Fan Room 2nd Floor	Supply Fan	Gym Supply	Gym Supply Fan		3
Memorial Junior High School	Gym Fan Room	Supply Fan	Gym Supply			
Memorial Junior High School	Gym Fan Room	Supply Fan	Gym Supply			
Memorial Junior High School	Gym Fan Room	Supply Fan	Locker Room			
Memorial Junior High School	Gym Fan Room	Supply Fan	Locker Room			
Stimson Middle School	Student ACT 148	Supply Fan	Conference Room & Student ACT	S-6A	1380	0.5
Stimson Middle School	Storage 253	Supply Fan	Conference Room 254	S-4A	500	0.25
Stimson Middle School	Storage 263	Supply Fan	Conference Room 262	S-5A	500	0.25
Stimson Middle School	Apparatus Storage	Supply Fan	Girls Lockers	S-2C	1825	0.75
Stimson Middle School	Fan Room 635	Supply Fan	Gym	S-4C	6500	2
Stimson Middle School	Fan Room 635	Supply Fan	Gym	S-5C	6500	2
Oakwood Primary Center	Fan Room 2nd Floor	Supply Fan	Gym Supply	Gym Supply Fan		3
Oakwood Primary Center	Kitchen Storage Room	H&V Unit	Kitchen	HV1		1.5
Oakwood Primary Center	Gym Storage Room	H&V Unit		HV2		0.25

Schedule 2

Building	Location	Equipment Type	Area-System Served	Equipment Name	Supply Air (CFM)	Horsepower
Oakwood Primary Center	Small Fan Room 2nd Floor	H&V Unit		HV3		1.5
Oakwood Primary Center	Fan Room 2nd Floor	Supply Fan	Cafetorium Supply	Cafetorium Supply Fan		2
Stimson Middle School	Corridor 178	Supply Fan	Kitchen 117	S-8A	8200	3
Stimson Middle School	Fan Room 257	Return Fan	Multipurpose Room	R-1A	7200	1
Stimson Middle School	Fan Room 257	Supply Fan	Multipurpose Room	S-1A	7400	2
Stimson Middle School	Fan Room 259	Return Fan	Multipurpose Room	R-2A	5100	0.75
Stimson Middle School	Fan Room 259	Supply Fan	Multipurpose Room	S-2A	3400	1
Stimson Middle School	Storage 161	Supply Fan	Practice Rooms	S-7A	930	0.25
Stimson Middle School	Fan Room 259	Return Fan	Stage 189	R-3A	3600	0.5
Stimson Middle School	Fan Room 259	Supply Fan	Stage 189	S-3A	4900	1.5
Stimson Middle School	Storage 313	Supply Fan	Administration	S-1B	1360	0.5
Stimson Middle School	Fan Room 635	Supply Fan	Aux Gym	S-3C	4000	1.5
Stimson Middle School	Boiler Room	Supply Fan	Boiler Room	S-9A	12000	3
Stimson Middle School	Apparatus Storage	Supply Fan	Boys Lockers	S-1C	2125	0.75
Walt Whitman High School	Fan Room (Above Girls Locker Room)	Supply Fan	Gym	Supply Fan S1	7782	2
Walt Whitman High School	Fan Room (Above Girls Locker Room)	Supply Fan	Gym	Supply Fan S2	7782	2
Walt Whitman High School	Fan Room (Above Girls Locker Room)	Supply Fan	Gym	Supply Fan S3	7782	2
Walt Whitman High School	Fan Room (Above Girls Locker Room)	Supply Fan	Auditorium	Supply Fan S12	19278	7.5
Walt Whitman High School	Fan Room (Above Girls Locker Room)	Supply Fan	Corrective Gym	Supply Fan S5	2513	0.5
Walt Whitman High School	Fan Room (Above Girls Locker Room)	Supply Fan	Girls Locker Room	Supply Fan S9	7782	1
Walt Whitman High School	Fan Room (Above Girls Locker Room)	Supply Fan	Boys Locker Room	Supply Fan S7	7133	1.5
Walt Whitman High School	Fan Room (Above Girls Locker Room)	Supply Fan	Cafeteria	Supply Fan S11	11798	2

Unit Ventilators:

Building	Location	Equipment Type	Fuel / Energy Source	Unit Ventilator or (Pneumatic)	Unit Ventilator or (DDC)	Radiator Classroom / Office	Radiator Hall/Storage	Fan Coil	Convectors	Unit Heater	Window AC
Birchwood Intermediate School	Stair Exit 7 by Music Room	HVAC	Steam	0	0	0	1	0	0	0	0
Birchwood Intermediate School	Music Room	HVAC	Steam	0	1	1	0	0	0	0	0
Birchwood Intermediate School	Gym	HVAC	Steam	0	0	0	0	0	0	0	0
Birchwood Intermediate School	Main Office	HVAC	Steam	0	0	1	0	0	0	0	1

Schedule 2

Building	Location	Equipment Type	Fuel / Energy Source	Unit Ventilator (Pneumatic)	Unit Ventilator (DDC)	Radiator Classroom / Office	Radiator Hall/Storage	Fan Coil	Convect or	Unit Heater	Window AC
Birchwood Intermediate School	Principal	HVAC	Steam	0	0	1	0	0	0	0	1
Birchwood Intermediate School	Principal	HVAC	Steam	0	0	0	0	0	0	0	1
Birchwood Intermediate School	Office	HVAC	Steam	0	0	1	0	0	0	0	1
Birchwood Intermediate School	Nurse	HVAC	Steam	0	0	1	0	0	0	0	1
Birchwood Intermediate School	Hall by Nurse	HVAC	Steam	0	0	0	1	0	0	0	0
Birchwood Intermediate School	Hall by 119	HVAC	Steam	0	0	0	1	0	0	0	0
Birchwood Intermediate School	Hall by 119	HVAC	Steam	0	0	0	1	0	0	0	0
Birchwood Intermediate School	119	HVAC	Steam	0	1	1	0	0	0	0	1
Birchwood Intermediate School	124	HVAC	Steam	0	1	1	0	0	0	0	1
Birchwood Intermediate School	121	HVAC	Steam	0	1	1	0	0	0	0	1
Birchwood Intermediate School	126	HVAC	Steam	0	1	1	0	0	0	0	1
Birchwood Intermediate School	Hall by 126	HVAC	Steam	0	0	0	1	0	0	0	0
Birchwood Intermediate School	123 Portable	HVAC	Gas	0	0	0	0	0	0	0	0
Birchwood Intermediate School	128 Portable	HVAC	Gas	0	0	0	0	0	0	0	0
Birchwood Intermediate School	125 Portable	HVAC	Gas	0	0	0	0	0	0	0	0
Birchwood Intermediate School	130 Portable	HVAC	Gas	0	0	0	0	0	0	0	0
Birchwood Intermediate School	Portable Hall	HVAC	Electric	0	0	0	1	0	0	0	0
Birchwood Intermediate School	Portable Hall	HVAC	Electric	0	0	0	1	0	0	0	0
Birchwood Intermediate School	Gym Coach Office	HVAC	Steam	0	0	1	0	0	0	0	0
Birchwood Intermediate School	122	HVAC	Steam	0	0	1	0	0	0	0	0
Birchwood Intermediate School	120a	HVAC	Steam	0	0	1	0	0	0	0	0

Schedule 2

Building	Location	Equipment Type	Fuel / Energy Source	Unit Ventilator (Pneumatic)	Unit Ventilator (DDC)	Radiator Classroom / Office	Radiator Hall/Storage	Fan Coil	Convect or	Unit Heater	Window AC
Birchwood Intermediate School	117	HVAC	Steam	0	1	1	0	0	0	0	1
Birchwood Intermediate School	120	HVAC	Steam	0	1	1	0	0	0	0	1
Birchwood Intermediate School	115	HVAC	Steam	0	1	1	0	0	0	0	1
Birchwood Intermediate School	Hall by 115	HVAC	Steam	0	0	0	1	0	0	0	0
Birchwood Intermediate School	118	HVAC	Steam	0	1	1	0	0	0	0	1
Birchwood Intermediate School	113	HVAC	Steam	0	1	1	0	0	0	0	0
Birchwood Intermediate School	111	HVAC	Steam	0	1	1	0	0	0	0	0
Birchwood Intermediate School	114	HVAC	Steam	0	1	1	0	0	0	0	1
Birchwood Intermediate School	116	HVAC	Steam	0	1	1	0	0	0	0	1
Birchwood Intermediate School	116 Bath	HVAC	Steam	0	0	0	1	0	0	0	0
Birchwood Intermediate School	Hall by 113	HVAC	Steam	0	0	0	1	0	0	0	0
Birchwood Intermediate School	Exit by 113	HVAC	Steam	0	0	0	1	0	0	0	0
Birchwood Intermediate School	Exit by 116	HVAC	Steam	0	0	0	1	0	0	0	0
Birchwood Intermediate School	Tech Office	HVAC	Steam	0	0	1	0	0	0	0	0
Birchwood Intermediate School	2nd Floor Stair	HVAC	Steam	0	0	0	1	0	0	0	0
Birchwood Intermediate School	2nd Floor Hall	HVAC	Steam	0	0	0	1	0	0	0	0
Birchwood Intermediate School	212	HVAC	Steam	0	1	1	0	0	0	0	1
Birchwood Intermediate School	211	HVAC	Steam	0	1	1	0	0	0	0	1
Birchwood Intermediate School	210	HVAC	Steam	0	1	1	0	0	0	0	0
Birchwood Intermediate School	209	HVAC	Steam	0	1	1	0	0	0	0	0
Birchwood Intermediate School	208	HVAC	Steam	0	1	1	0	0	0	0	0

Schedule 2

Building	Location	Equipment Type	Fuel / Energy Source	Unit Ventilator (Pneumatic)	Unit Ventilator (DDC)	Radiator Classroom / Office	Radiator Hall/Storage	Fan Coil	Convector	Unit Heater	Window AC
Birchwood Intermediate School	207	HVAC	Steam	0	1	1	0	0	0	0	0
Birchwood Intermediate School	206	HVAC	Steam	0	1	1	0	0	0	0	1
Birchwood Intermediate School	Stair by 207	HVAC	Steam	0	0	0	1	0	0	0	0
Birchwood Intermediate School	Hall by 206	HVAC	Steam	0	0	0	1	0	0	0	0
Birchwood Intermediate School	205	HVAC	Steam	0	1	1	0	0	0	0	0
Birchwood Intermediate School	203	HVAC	Steam	0	1	1	0	0	0	0	0
Birchwood Intermediate School	204	HVAC	Steam	0	1	1	0	0	0	0	1
Birchwood Intermediate School	202	HVAC	Steam	0	1	1	0	0	0	0	1
Birchwood Intermediate School	Hall by 202	HVAC	Steam	0	0	0	1	0	0	0	0
Birchwood Intermediate School	201	HVAC	Steam	0	1	1	0	0	0	0	1
Birchwood Intermediate School	200	HVAC	Steam	0	0	1	0	0	0	0	1
Birchwood Intermediate School	200A	HVAC	Steam	0	0	1	0	0	0	0	0
Birchwood Intermediate School	Second Floor Boys	HVAC	Steam	0	0	0	1	0	0	0	0
Birchwood Intermediate School	Second Floor Girls	HVAC	Steam	0	0	0	1	0	0	0	0
Birchwood Intermediate School	2nd Floor Hall	HVAC	Steam	0	0	0	1	0	0	0	0
Birchwood Intermediate School	Exit by 100	HVAC	Steam	0	0	0	1	0	0	0	0
Birchwood Intermediate School	1st Floor Boys	HVAC	Steam	0	0	0	1	0	0	0	0
Birchwood Intermediate School	1st Floor Girls	HVAC	Steam	0	0	0	1	0	0	0	0
Birchwood Intermediate School	100	HVAC	Steam	0	0	1	0	0	0	0	1
Birchwood Intermediate School	101	HVAC	Steam	0	1	1	0	0	0	0	0
Birchwood Intermediate School	101	HVAC	Steam	0	0	0	0	0	0	0	0

Schedule 2

Building	Location	Equipment Type	Fuel / Energy Source	Unit Ventilator (Pneumatic)	Unit Ventilator (DDC)	Radiator Classroom / Office	Radiator Hall/Storage	Fan Coil	Convector	Unit Heater	Window AC
Birchwood Intermediate School	102	HVAC	Steam	0	1	1	0	0	0	0	1
Birchwood Intermediate School	104	HVAC	Steam	0	1	1	0	0	0	0	1
Birchwood Intermediate School	Library	HVAC	Steam	0	1	0	0	0	0	0	0
Birchwood Intermediate School	Library	HVAC	Steam	0	1	1	0	0	0	0	0
Birchwood Intermediate School	Hall by Library	HVAC	Steam	0	0	0	1	0	0	0	0
Birchwood Intermediate School	106	HVAC	Steam	0	1	1	0	0	0	0	1
Birchwood Intermediate School	105	HVAC	Steam	0	1	1	0	0	0	0	1
Birchwood Intermediate School	108	HVAC	Steam	0	1	1	0	0	0	0	1
Birchwood Intermediate School	107	HVAC	Steam	0	1	1	0	0	0	0	1
Birchwood Intermediate School	Exit 9	HVAC	Steam	0	0	0	1	0	0	0	0
Birchwood Intermediate School	Kitchen Hall Exit	HVAC	Steam	0	0	0	1	0	0	0	0
Birchwood Intermediate School	Kitchen Office	HVAC	Steam	0	0	1	0	0	0	0	0
Birchwood Intermediate School	Faculty	HVAC	Steam	0	1	1	0	0	0	0	1
Birchwood Intermediate School	Girls	HVAC	Steam	0	0	0	1	0	0	0	0
Birchwood Intermediate School	Boys	HVAC	Steam	0	0	0	1	0	0	0	0
Birchwood Intermediate School	Cafeteria	HVAC	Steam	0	0	0	0	0	0	0	0
Birchwood Intermediate School	Kitchen	HVAC	Steam	0	0	0	0	0	0	1	0
Countrywood Primary Center	501	HVAC	Hot Water	0	1	1	0	0	0	0	1
Countrywood Primary Center	Hall by 501	HVAC	Hot Water	0	0	0	1	0	0	0	0
Countrywood Primary Center	503	HVAC	Hot Water	0	1	1	0	0	0	0	1
Countrywood Primary Center	Boys Bath	HVAC	Hot Water	0	0	0	1	0	0	0	0

Schedule 2

Building	Location	Equipment Type	Fuel / Energy Source	Unit Ventilator (Pneumatic)	Unit Ventilator (DDC)	Radiator Classroom / Office	Radiator Hall/Storage	Fan Coil	Convector	Unit Heater	Window AC
Countrywood Primary Center	Girls Bath	HVAC	Hot Water	0	0	0	1	0	0	0	0
Countrywood Primary Center	505	HVAC	Hot Water	0	1	1	0	0	0	0	1
Countrywood Primary Center	507	HVAC	Hot Water	0	1	1	0	0	0	0	1
Countrywood Primary Center	Hall by 509	HVAC	Hot Water	0	0	0	1	0	0	0	0
Countrywood Primary Center	Hall by 509	HVAC	Hot Water	0	0	0	1	0	0	0	0
Countrywood Primary Center	Hall by 501	HVAC	Hot Water	0	0	0	1	0	0	0	0
Countrywood Primary Center	509	HVAC	Hot Water	0	1	1	0	0	0	0	1
Countrywood Primary Center	Stair By 509	HVAC	Hot Water	0	0	0	1	0	0	0	0
Countrywood Primary Center	317	HVAC	Hot Water	0	1	1	0	0	0	0	1
Countrywood Primary Center	Exit by 317	HVAC	Hot Water	0	0	0	1	0	0	0	0
Countrywood Primary Center	315	HVAC	Hot Water	0	1	1	0	0	0	0	1
Countrywood Primary Center	Boys Bath	HVAC	Hot Water	0	0	0	1	0	0	0	0
Countrywood Primary Center	Girls Bath	HVAC	Hot Water	0	0	0	1	0	0	0	0
Countrywood Primary Center	Hall by 315	HVAC	Hot Water	0	0	0	1	0	0	0	0
Countrywood Primary Center	313	HVAC	Hot Water	0	1	1	0	0	0	0	0
Countrywood Primary Center	313	HVAC	Hot Water	0	0	0	0	0	0	0	0
Countrywood Primary Center	311	HVAC	Hot Water	0	1	1	0	0	0	0	0
Countrywood Primary Center	Courtyard Exit	HVAC	Hot Water	0	0	0	1	0	0	0	0
Countrywood Primary Center	Stair by 309	HVAC	Hot Water	0	0	0	1	0	0	0	0
Countrywood Primary Center	309	HVAC	Hot Water	0	1	1	0	0	0	0	0
Countrywood Primary Center	Exit by 309	HVAC	Hot Water	0	0	0	1	0	0	0	0

Schedule 2

Building	Location	Equipment Type	Fuel / Energy Source	Unit Ventilator (Pneumatic)	Unit Ventilator (DDC)	Radiator Classroom / Office	Radiator Hall/Storage	Fan Coil	Convector	Unit Heater	Window AC
Countrywood Primary Center	307	HVAC	Hot Water	0	1	1	0	0	0	0	0
Countrywood Primary Center	302	HVAC	Hot Water	0	1	1	0	0	0	0	1
Countrywood Primary Center	Hall by 302	HVAC	Hot Water	0	0	0	1	0	0	0	0
Countrywood Primary Center	305	HVAC	Hot Water	0	1	1	0	0	0	0	1
Countrywood Primary Center	303	HVAC	Hot Water	0	1	1	0	0	0	0	1
Countrywood Primary Center	303	HVAC	Hot Water	0	0	0	0	0	0	0	1
Countrywood Primary Center	301	HVAC	Hot Water	0	1	1	0	0	0	0	1
Countrywood Primary Center	301	HVAC	Hot Water	0	0	0	0	0	0	0	1
Countrywood Primary Center	Portable 401	HVAC	Gas	0	0	0	0	0	0	0	0
Countrywood Primary Center	Portable 403	HVAC	Gas	0	0	0	0	0	0	0	0
Countrywood Primary Center	Portable 405	HVAC	Gas	0	0	0	0	0	0	0	0
Countrywood Primary Center	Portable 407	HVAC	Gas	0	0	0	0	0	0	0	0
Countrywood Primary Center	Portable Hall	HVAC	Electric	0	0	0	1	0	0	0	0
Countrywood Primary Center	Portable Hall	HVAC	Electric	0	0	0	1	0	0	0	0
Countrywood Primary Center	Portable Hall	HVAC	Electric	0	0	0	1	0	0	0	0
Countrywood Primary Center	Portable Hall	HVAC	Electric	0	0	0	1	0	0	0	0
Countrywood Primary Center	Portable Hall	HVAC	Electric	0	0	0	1	0	0	0	0
Countrywood Primary Center	Portable Hall	HVAC	Electric	0	0	0	1	0	0	0	0
Countrywood Primary Center	Portable Hall	HVAC	Electric	0	0	0	1	0	0	0	0
Countrywood Primary Center	Gym Office	HVAC	Hot Water	0	0	0	0	0	0	0	0
Countrywood Primary Center	Gym Office Bath	HVAC	Hot Water	0	0	0	1	0	0	0	0

Schedule 2

Building	Location	Equipment Type	Fuel / Energy Source	Unit Ventilator (Pneumatic)	Unit Ventilator (DDC)	Radiator Classroom / Office	Radiator Hall/Storage	Fan Coil	Convector	Unit Heater	Window AC
Countrywood Primary Center	Gym	HVAC	Hot Water	0	0	0	0	0	0	0	0
Countrywood Primary Center	Gym	HVAC	Hot Water	0	0	0	0	0	0	0	0
Countrywood Primary Center	Cafeteria	HVAC	Hot Water	0	0	0	1	0	0	0	0
Countrywood Primary Center	Cafeteria	HVAC	Hot Water	0	0	0	1	0	0	0	0
Countrywood Primary Center	Cafeteria	HVAC	Hot Water	0	0	0	1	0	0	0	0
Countrywood Primary Center	Library	HVAC	Hot Water	0	0	1	0	0	0	0	0
Countrywood Primary Center	201A	HVAC	Hot Water	0	0	1	0	0	0	0	0
Countrywood Primary Center	201A	HVAC	Hot Water	0	0	1	0	0	0	0	0
Countrywood Primary Center	201A	HVAC	Hot Water	0	0	1	0	0	0	0	0
Countrywood Primary Center	201A	HVAC	Hot Water	0	0	1	0	0	0	0	0
Countrywood Primary Center	246	HVAC	Hot Water	0	1	1	0	0	0	0	1
Countrywood Primary Center	200	HVAC	Hot Water	0	1	1	0	0	0	0	1
Countrywood Primary Center	202	HVAC	Hot Water	0	1	1	0	0	0	0	0
Countrywood Primary Center	201	HVAC	Hot Water	0	1	1	0	0	0	0	0
Countrywood Primary Center	204	HVAC	Hot Water	0	1	1	0	0	0	0	0
Countrywood Primary Center	203	HVAC	Hot Water	0	1	1	0	0	0	0	1
Countrywood Primary Center	206	HVAC	Hot Water	0	1	1	0	0	0	0	0
Countrywood Primary Center	205	HVAC	Hot Water	0	0	1	0	0	0	0	0
Countrywood Primary Center	205B	HVAC	Electric	0	0	1	0	0	0	0	0
Countrywood Primary Center	Hall by 205	HVAC	Hot Water	0	0	0	1	0	0	0	0
Countrywood Primary Center	Cafetorium	HVAC	Hot Water	0	0	0	0	0	0	0	0

Schedule 2

Building	Location	Equipment Type	Fuel / Energy Source	Unit Ventilator (Pneumatic)	Unit Ventilator (DDC)	Radiator Classroom / Office	Radiator Hall/Storage	Fan Coil	Convector	Unit Heater	Window AC
Countrywood Primary Center	Cafetorium	HVAC	Hot Water	0	0	0	0	0	0	0	0
Countrywood Primary Center	Cafetorium	HVAC	Hot Water	0	0	0	0	0	0	0	0
Countrywood Primary Center	Hall by Main Office	HVAC	Hot Water	0	0	0	1	0	0	0	0
Countrywood Primary Center	Hall by Main Office	HVAC	Hot Water	0	0	0	1	0	0	0	0
Countrywood Primary Center	Main Office	HVAC	Hot Water	0	0	1	0	0	0	0	0
Countrywood Primary Center	Principal	HVAC	Hot Water	0	0	0	0	0	0	0	1
Countrywood Primary Center	510	HVAC	Hot Water	0	0	1	0	0	0	0	1
Countrywood Primary Center	509A	HVAC	Hot Water	0	0	1	0	0	0	0	0
Countrywood Primary Center	Health	HVAC	Hot Water	0	0	1	0	0	0	0	1
Countrywood Primary Center	Hall by Health	HVAC	Hot Water	0	0	0	1	0	0	0	0
Countrywood Primary Center	Store Room	HVAC	Hot Water	0	0	0	0	0	1	1	0
Countrywood Primary Center	Custodial Room	HVAC	Hot Water	0	0	1	0	0	0	0	1
Countrywood Primary Center	Custodial Room Bath	HVAC	Hot Water	0	0	1	0	0	0	0	0
Countrywood Primary Center	502 Faculty	HVAC	Hot Water	0	1	1	0	0	0	0	1
Countrywood Primary Center	Exit by 502	HVAC	Hot Water	0	0	0	1	0	0	0	0
Countrywood Primary Center	500	HVAC	Hot Water	0	0	0	0	0	0	0	0
Countrywood Primary Center	Entrance	HVAC	Hot Water	0	0	0	1	0	0	0	0
Countrywood Primary Center	Copy Room	HVAC	Hot Water	0	0	1	0	0	0	0	0
Countrywood Primary Center	101	HVAC	Hot Water	0	1	1	0	0	0	0	0
Countrywood Primary Center	100	HVAC	Hot Water	0	1	1	0	0	0	0	1
Countrywood Primary Center	102	HVAC	Hot Water	0	1	1	0	0	0	0	1

Schedule 2

Building	Location	Equipment Type	Fuel / Energy Source	Unit Ventilator or (Pneumatic)	Unit Ventilator or (DDC)	Radiator Classroom / Office	Radiator Hall/Storage	Fan Coil	Convector	Unit Heater	Window AC
Countrywood Primary Center	Hall by 103	HVAC	Hot Water	0	0	0	1	0	0	0	0
Countrywood Primary Center	103	HVAC	Hot Water	0	1	1	0	0	0	0	0
Countrywood Primary Center	105	HVAC	Hot Water	0	1	1	0	0	0	0	0
Countrywood Primary Center	104	HVAC	Hot Water	0	1	1	0	0	0	0	1
Countrywood Primary Center	107	HVAC	Hot Water	0	1	1	0	0	0	0	0
Countrywood Primary Center	106	HVAC	Hot Water	0	1	1	0	0	0	0	1
Countrywood Primary Center	Hall by 106	HVAC	Hot Water	0	0	0	1	0	0	0	0
Countrywood Primary Center	Hall by 106	HVAC	Hot Water	0	0	0	1	0	0	0	0
Countrywood Primary Center	Hall by 108	HVAC	Hot Water	0	0	0	1	0	0	0	0
Countrywood Primary Center	108	HVAC	Hot Water	0	1	1	0	0	0	0	0
Countrywood Primary Center	109	HVAC	Hot Water	0	1	1	0	0	0	0	1
Countrywood Primary Center	111	HVAC	Hot Water	0	1	1	0	0	0	0	1
Countrywood Primary Center	110	HVAC	Hot Water	0	1	1	0	0	0	0	1
Countrywood Primary Center	Kitchen	HVAC	Hot Water	0	0	0	0	0	0	1	0
Oakwood Primary Center	2nd Floor Hall	HVAC	Steam	0	0	0	1	0	0	0	0
Oakwood Primary Center	2nd Floor Stair	HVAC	Steam	0	0	0	1	0	0	0	0
Oakwood Primary Center	2nd Floor Boys	HVAC	Steam	0	0	0	1	0	0	0	0
Oakwood Primary Center	2nd Floor Girls	HVAC	Steam	0	0	0	1	0	0	0	0
Oakwood Primary Center	202	HVAC	Steam	0	1	1	0	0	0	0	1
Oakwood Primary Center	201	HVAC	Steam	0	1	1	0	0	0	0	1
Oakwood Primary Center	204	HVAC	Steam	0	1	1	0	0	0	0	1

Schedule 2

Building	Location	Equipment Type	Fuel / Energy Source	Unit Ventilator or (Pneumatic)	Unit Ventilator or (DDC)	Radiator Classroom / Office	Radiator Hall/Storage	Fan Coil	Convector	Unit Heater	Window AC
Oakwood Primary Center	203	HVAC	Steam	0	1	1	0	0	0	0	1
Oakwood Primary Center	206	HVAC	Steam	0	1	1	0	0	0	0	0
Oakwood Primary Center	205	HVAC	Steam	0	1	1	0	0	0	0	0
Oakwood Primary Center	Stair by 205	HVAC	Steam	0	0	0	1	0	0	0	0
Oakwood Primary Center	207	HVAC	Steam	0	1	1	0	0	0	0	0
Oakwood Primary Center	Hall by 209	HVAC	Steam	0	0	0	1	0	0	0	0
Oakwood Primary Center	209	HVAC	Steam	0	1	1	0	0	0	0	1
Oakwood Primary Center	Girls by 211	HVAC	Steam	0	0	0	1	0	0	0	0
Oakwood Primary Center	211	HVAC	Steam	0	1	1	0	0	0	0	1
Oakwood Primary Center	214	HVAC	Steam	0	1	1	0	0	0	0	0
Oakwood Primary Center	212	HVAC	Steam	0	1	1	0	0	0	0	1
Oakwood Primary Center	Boys by 210	HVAC	Steam	0	0	0	1	0	0	0	0
Oakwood Primary Center	210	HVAC	Steam	0	1	1	0	0	0	0	0
Oakwood Primary Center	Hall by 208	HVAC	Steam	0	0	0	1	0	0	0	0
Oakwood Primary Center	208	HVAC	Steam	0	1	1	0	0	0	0	0
Oakwood Primary Center	Stair Exit by 208	HVAC	Steam	0	0	0	1	0	0	0	0
Oakwood Primary Center	Forum	HVAC	Steam	0	0	0	0	0	0	0	0
Oakwood Primary Center	104	HVAC	Steam	0	1	1	0	0	0	0	0
Oakwood Primary Center	Hall by 104	HVAC	Steam	0	0	0	1	0	0	0	0
Oakwood Primary Center	106	HVAC	Steam	0	1	1	0	0	0	0	0
Oakwood Primary Center	108	HVAC	Steam	0	1	1	0	0	0	0	1

Schedule 2

Building	Location	Equipment Type	Fuel / Energy Source	Unit Ventilator or (Pneumatic)	Unit Ventilator or (DDC)	Radiator Classroom / Office	Radiator Hall/Storage	Fan Coil	Convect or	Unit Heater	Window AC
Oakwood Primary Center	Exit by 108	HVAC	Steam	0	0	0	0	0	1	0	0
Oakwood Primary Center	110	HVAC	Steam	0	1	1	0	0	0	0	1
Oakwood Primary Center	Portable Hall	HVAC	Electric	0	0	0	0	0	1	0	0
Oakwood Primary Center	Portable Hall	HVAC	Electric	0	0	0	0	0	1	0	0
Oakwood Primary Center	Portable Hall	HVAC	Electric	0	0	0	0	0	1	0	0
Oakwood Primary Center	Portable Hall	HVAC	Electric	0	0	0	0	0	1	0	0
Oakwood Primary Center	Portable 130	HVAC	Gas	0	0	0	0	0	0	0	0
Oakwood Primary Center	Portable 131	HVAC	Steam	0	0	0	0	0	0	0	0
Oakwood Primary Center	Portable 132	HVAC	Steam	0	0	0	0	0	0	0	0
Oakwood Primary Center	Portable 133	HVAC	Steam	0	0	0	0	0	0	0	0
Oakwood Primary Center	Hall by 111	HVAC	Steam	0	0	0	1	0	0	0	0
Oakwood Primary Center	111	HVAC	Steam	0	1	1	0	0	0	0	1
Oakwood Primary Center	109	HVAC	Steam	0	1	1	0	0	0	0	0
Oakwood Primary Center	Hall by 109	HVAC	Steam	0	0	0	1	0	0	0	0
Oakwood Primary Center	107	HVAC	Steam	0	1	1	0	0	0	0	0
Oakwood Primary Center	105	HVAC	Steam	0	1	1	0	0	0	0	1
Oakwood Primary Center	102	HVAC	Steam	0	1	1	0	0	0	0	0
Oakwood Primary Center	103	HVAC	Steam	0	1	1	0	0	0	0	0
Oakwood Primary Center	Custodial	HVAC	Steam	0	0	1	0	0	0	0	0
Oakwood Primary Center	Kitchen Hall	HVAC	Steam	0	0	0	1	0	0	0	0
Oakwood Primary Center	101	HVAC	Steam	0	1	1	0	0	0	0	1

Schedule 2

Building	Location	Equipment Type	Fuel / Energy Source	Unit Ventilator or (Pneumatic)	Unit Ventilator or (DDC)	Radiator Classroom / Office	Radiator Hall/Storage	Fan Coil	Convector	Unit Heater	Window AC
Oakwood Primary Center	Girls Room	HVAC	Steam	0	0	0	1	0	0	0	0
Oakwood Primary Center	Boys Room	HVAC	Steam	0	0	0	1	0	0	0	0
Oakwood Primary Center	100	HVAC	Steam	0	0	1	0	0	0	0	1
Oakwood Primary Center	Cafeteria	HVAC	Steam	0	0	0	0	0	0	0	0
Oakwood Primary Center	Stair Exit by Cafeteria	HVAC	Steam	0	0	0	1	0	0	0	0
Oakwood Primary Center	Main Entrance	HVAC	Steam	0	0	0	0	0	0	0	0
Oakwood Primary Center	Library	HVAC	Steam	0	1	1	0	0	0	0	0
Oakwood Primary Center	Comp Lab	HVAC	Steam	0	1	0	0	0	0	0	1
Oakwood Primary Center	91A Store Room	HVAC	Steam	0	1	0	0	0	0	0	0
Oakwood Primary Center	Gym	HVAC	Steam	0	0	0	0	0	0	0	0
Oakwood Primary Center	523	HVAC	Steam	0	1	1	0	0	0	0	1
Oakwood Primary Center	Main Office	HVAC	Steam	0	0	1	0	0	0	0	1
Oakwood Primary Center	Principal	HVAC	Steam	0	0	1	0	0	0	0	1
Oakwood Primary Center	Office	HVAC	Steam	0	0	1	0	0	0	0	0
Oakwood Primary Center	Nurse	HVAC	Steam	0	0	1	0	0	0	0	0
Oakwood Primary Center	Nurse Storage	HVAC	Steam	0	0	0	1	0	0	0	0
Oakwood Primary Center	Hall By Nurse	HVAC	Steam	0	0	0	1	0	0	0	0
Oakwood Primary Center	Hall By Nurse	HVAC	Steam	0	0	0	1	0	0	0	0
Oakwood Primary Center	117A	HVAC	Steam	0	0	1	0	0	0	0	0
Oakwood Primary Center	Psychologist 118A	HVAC	Steam	1	0	1	0	0	0	0	1
Oakwood Primary Center	119	HVAC	Steam	0	1	1	0	0	0	0	1

Schedule 2

Building	Location	Equipment Type	Fuel / Energy Source	Unit Ventilator (Pneumatic)	Unit Ventilator (DDC)	Radiator Classroom / Office	Radiator Hall/Storage	Fan Coil	Convect or	Unit Heater	Window AC
Oakwood Primary Center	118	HVAC	Steam	0	1	1	0	0	0	0	1
Oakwood Primary Center	Hall by 118	HVAC	Steam	0	0	0	1	0	0	0	0
Oakwood Primary Center	121	HVAC	Steam	0	1	1	0	0	0	0	1
Oakwood Primary Center	Exit by 121	HVAC	Steam	0	0	0	1	0	0	0	0
Oakwood Primary Center	123	HVAC	Steam	0	1	1	0	0	0	0	1
Oakwood Primary Center	123	HVAC	Steam	0	0	0	0	0	0	0	1
Oakwood Primary Center	123 Bath	HVAC	Steam	0	0	0	1	0	0	0	0
Oakwood Primary Center	120	HVAC	Steam	0	1	1	0	0	0	0	0
Oakwood Primary Center	Faculty	HVAC	Steam	0	1	1	0	0	0	0	1
Oakwood Primary Center	117B	HVAC	Steam	0	0	1	0	0	0	0	0
Oakwood Primary Center	Hall by 117	HVAC	Steam	0	0	0	1	0	0	0	0
Oakwood Primary Center	116	HVAC	Steam	0	1	1	0	0	0	0	0
Oakwood Primary Center	115	HVAC	Steam	0	1	1	0	0	0	0	0
Oakwood Primary Center	114	HVAC	Steam	0	1	1	0	0	0	0	1
Oakwood Primary Center	113	HVAC	Steam	0	1	1	0	0	0	0	0
Oakwood Primary Center	112	HVAC	Steam	0	1	1	0	0	0	0	0
Oakwood Primary Center	113 Bath	HVAC	Steam	0	0	0	1	0	0	0	0
Oakwood Primary Center	112 Bath	HVAC	Steam	0	0	0	1	0	0	0	0
Oakwood Primary Center	120 Bath	HVAC	Steam	0	0	0	1	0	0	0	0
Oakwood Primary Center	Exit B	HVAC	Steam	0	0	0	1	0	0	0	0
Oakwood Primary Center	Exit B hall	HVAC	Steam	0	0	0	1	0	0	0	0

Schedule 2

Building	Location	Equipment Type	Fuel / Energy Source	Unit Ventilator or (Pneumatic)	Unit Ventilator (DDC)	Radiator Classroom / Office	Radiator Hall/Storage	Fan Coil	Convector	Unit Heater	Window AC
Walt Whitman High School	627	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	630	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	625	HVAC	Steam	1	0	1	0	0	0	0	0
Walt Whitman High School	628	HVAC	Steam	1	0	1	0	0	0	0	0
Walt Whitman High School	623	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	626	HVAC	Steam	1	0	1	0	0	0	0	0
Walt Whitman High School	621	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	624	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	619	HVAC	Steam	1	0	1	0	0	0	0	0
Walt Whitman High School	Stair by 619	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	Hall by 622	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	622	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	620	HVAC	Steam	1	0	1	0	0	0	0	0
Walt Whitman High School	Library Computer Room	HVAC	Steam	0	0	1	0	0	0	0	0
Walt Whitman High School	Library	HVAC	Steam	0	0	0	0	0	0	0	0
Walt Whitman High School	617	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	617	HVAC	Steam	0	0	0	0	0	0	0	1
Walt Whitman High School	616	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	Hall by 616	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	Faculty Mens	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	Faculty Women	HVAC	Steam	0	0	0	1	0	0	0	0

Schedule 2

Building	Location	Equipment Type	Fuel / Energy Source	Unit Ventilator or (Pneumatic)	Unit Ventilator or (DDC)	Radiator Classroom / Office	Radiator Hall/Storage	Fan Coil	Convector	Unit Heater	Window AC
Walt Whitman High School	Stair by 614	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	614	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	612	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	611	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	609	HVAC	Steam	0	0	1	0	0	0	0	0
Walt Whitman High School	608	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	606	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	606	HVAC	Steam	0	0	0	0	0	0	0	1
Walt Whitman High School	605	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	605	HVAC	Steam	0	0	0	0	0	0	0	1
Walt Whitman High School	604	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	Library Computer Room	HVAC	Steam	1	0	1	0	0	0	0	0
Walt Whitman High School	607	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	607	HVAC	Steam	0	0	0	0	0	0	0	1
Walt Whitman High School	610	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	Hall by 608	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	604	HVAC	Steam	0	0	0	0	0	0	0	1
Walt Whitman High School	601	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	602	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	Hall by 602	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	Stair by 602	HVAC	Steam	0	0	0	1	0	0	0	0

Schedule 2

Building	Location	Equipment Type	Fuel / Energy Source	Unit Ventilator or (Pneumatic)	Unit Ventilator or (DDC)	Radiator Classroom / Office	Radiator Hall/Storage	Fan Coil	Convect or	Unit Heater	Window AC
Walt Whitman High School	Stair by 502	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	Hall by 502	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	502	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	501	HVAC	Steam	1	0	1	0	0	0	0	0
Walt Whitman High School	504	HVAC	Steam	1	0	1	0	0	0	0	0
Walt Whitman High School	505	HVAC	Steam	1	0	1	0	0	0	0	0
Walt Whitman High School	506	HVAC	Steam	1	0	1	0	0	0	0	0
Walt Whitman High School	503	HVAC	Steam	0	0	1	0	0	0	0	1
Walt Whitman High School	Hall by 503	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	507	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	508	HVAC	Steam	1	0	1	0	0	0	0	0
Walt Whitman High School	510	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	509	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	512	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	511	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	Faculty	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	Faculty Lunch rm	HVAC	Steam	0	0	1	0	0	0	0	0
Walt Whitman High School	Stair Exit by Faculty	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	Faculty Mens	HVAC	Steam	0	0	0	0	0	0	0	0
Walt Whitman High School	Faculty Women	HVAC	Steam	0	0	0	0	0	0	0	0
Walt Whitman High School	Hall By Faculty Bath	HVAC	Steam	0	0	0	1	0	0	0	0

Schedule 2

Building	Location	Equipment Type	Fuel / Energy Source	Unit Ventilator (Pneumatic)	Unit Ventilator (DDC)	Radiator Classroom / Office	Radiator Hall/Storage	Fan Coil	Convect or	Unit Heater	Window AC
Walt Whitman High School	North Cafeteria	HVAC	Steam	1	0	0	0	0	0	0	0
Walt Whitman High School	North Cafeteria	HVAC	Steam	1	0	0	0	0	0	0	0
Walt Whitman High School	North Cafeteria	HVAC	Steam	1	0	0	0	0	0	0	0
Walt Whitman High School	North Cafeteria	HVAC	Steam	1	0	0	0	0	0	0	0
Walt Whitman High School	North Cafeteria	HVAC	Steam	1	0	0	0	0	0	0	0
Walt Whitman High School	North Cafeteria	HVAC	Steam	1	0	0	0	0	0	0	0
Walt Whitman High School	North Custodial	HVAC	Steam	0	0	1	0	0	0	0	0
Walt Whitman High School	519	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	Hall by 519	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	522	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	Exit 20	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	521	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	524	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	523	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	523	HVAC	Steam	0	0	0	0	0	0	0	1
Walt Whitman High School	526	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	525	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	Main Entrance	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	Main Entrance	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	Main Office	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	Main Office	HVAC	Steam	0	0	0	0	0	0	0	1

Schedule 2

Building	Location	Equipment Type	Fuel / Energy Source	Unit Ventilator (Pneumatic)	Unit Ventilator (DDC)	Radiator Classroom / Office	Radiator Hall/Storage	Fan Coil	Convect or	Unit Heater	Window AC
Walt Whitman High School	591 Main Office Secretary	HVAC	Steam	0	0	1	0	0	0	0	1
Walt Whitman High School	592	HVAC	Steam	0	0	1	0	0	0	0	1
Walt Whitman High School	593	HVAC	Steam	0	0	1	0	0	0	0	1
Walt Whitman High School	592	HVAC	Steam	0	0	1	0	0	0	0	1
Walt Whitman High School	528	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	530 print room	HVAC	Steam	0	0	1	0	0	0	0	1
Walt Whitman High School	532	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	Hall by 532	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	Mens Room	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	Women's Room	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	Forum	HVAC	Steam	0	0	0	0	0	0	0	0
Walt Whitman High School	Hall by Forum	HVAC	Steam	0	0	0	0	0	0	0	0
Walt Whitman High School	534 (Band)	HVAC	Steam	0	0	0	0	0	0	0	0
Walt Whitman High School	226	HVAC	Steam	0	0	0	0	0	0	0	1
Walt Whitman High School	226	HVAC	Steam	0	0	0	0	0	0	0	1
Walt Whitman High School	Loading Hallway	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	N Slopsink	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	AP Office	HVAC	Steam	0	0	1	0	0	0	0	1
Walt Whitman High School	AP Office	HVAC	Steam	0	0	1	0	0	0	0	1
Walt Whitman High School	225	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	225	HVAC	Steam	0	0	0	0	0	0	0	1

Schedule 2

Building	Location	Equipment Type	Fuel / Energy Source	Unit Ventilator (Pneumatic)	Unit Ventilator (DDC)	Radiator Classroom / Office	Radiator Hall/Storage	Fan Coil	Convector	Unit Heater	Window AC
Walt Whitman High School	228	HVAC	Steam	0	0	0	0	0	0	1	1
Walt Whitman High School	228	HVAC	Steam	0	0	0	0	0	0	1	1
Walt Whitman High School	227	HVAC	Steam	1	0	0	0	0	0	0	1
Walt Whitman High School	230	HVAC	Steam	0	0	0	0	0	0	1	1
Walt Whitman High School	230	HVAC	Steam	0	0	0	0	0	0	1	1
Walt Whitman High School	Exit by 230	HVAC	Steam	0	0	0	0	0	1	0	0
Walt Whitman High School	Hall by 223	HVAC	Steam	0	0	0	0	0	1	0	0
Walt Whitman High School	223	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	224	HVAC	Steam	0	0	0	0	0	0	0	0
Walt Whitman High School	OT/PT	HVAC	Steam	0	0	0	0	0	0	0	0
Walt Whitman High School	Auditorium	HVAC	Steam	0	0	0	0	0	0	0	0
Walt Whitman High School	Auditorium	HVAC	Steam	0	0	0	0	0	0	0	0
Walt Whitman High School	221	HVAC	Steam	1	0	1	0	0	0	0	0
Walt Whitman High School	219	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	Hall by 219	HVAC	Steam	0	0	0	0	0	1	0	0
Walt Whitman High School	Auditorium Lobby	HVAC	Steam	0	0	0	0	0	0	0	0
Walt Whitman High School	Auditorium Entrance	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	300 Hall	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	316 Hall	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	314 AB	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	312	HVAC	Steam	1	0	1	0	0	0	0	0

Schedule 2

Building	Location	Equipment Type	Fuel / Energy Source	Unit Ventilator or (Pneumatic)	Unit Ventilator or (DDC)	Radiator Classroom / Office	Radiator Hall/Storage	Fan Coil	Convect or	Unit Heater	Window AC
Walt Whitman High School	Mens	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	Women's	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	310	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	309	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	Stair by 307	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	Stair by 307	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	307	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	308	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	305	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	306	HVAC	Steam	1	0	1	0	0	0	0	0
Walt Whitman High School	303	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	304	HVAC	Steam	1	0	1	0	0	0	0	0
Walt Whitman High School	301	HVAC	Steam	0	0	0	0	0	0	0	0
Walt Whitman High School	302	HVAC	Steam	0	0	0	0	0	0	0	0
Walt Whitman High School	Hall by 302	HVAC	Steam	0	0	0	0	0	1	0	0
Walt Whitman High School	301A	HVAC	Steam	0	0	1	0	0	0	0	0
Walt Whitman High School	216	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	213	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	213	HVAC	Steam	0	0	0	0	0	0	0	1
Walt Whitman High School	213A	HVAC	Steam	0	0	1	0	0	0	0	1
Walt Whitman High School	218	HVAC	Steam	1	0	1	0	0	0	0	1

Schedule 2

Building	Location	Equipment Type	Fuel / Energy Source	Unit Ventilator (Pneumatic)	Unit Ventilator (DDC)	Radiator Classroom / Office	Radiator Hall/Storage	Fan Coil	Convect or	Unit Heater	Window AC
Walt Whitman High School	215	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	220B	HVAC	Steam	0	0	0	0	0	0	0	1
Walt Whitman High School	220	HVAC	Steam	0	0	0	0	0	0	0	1
Walt Whitman High School	Nurse	HVAC	Steam	0	0	0	0	0	0	0	1
Walt Whitman High School	Guidance	HVAC	Steam	0	0	1	0	0	0	0	1
Walt Whitman High School	Guidance Office	HVAC	Steam	0	0	1	0	0	0	0	1
Walt Whitman High School	Guidance Office	HVAC	Steam	0	0	1	0	0	0	0	1
Walt Whitman High School	Guidance Office	HVAC	Steam	0	0	1	0	0	0	0	1
Walt Whitman High School	Guidance Office	HVAC	Steam	0	0	1	0	0	0	0	1
Walt Whitman High School	Guidance Office	HVAC	Steam	0	0	1	0	0	0	0	1
Walt Whitman High School	Mens	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	Women's	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	Kitchen	HVAC	Steam	0	0	0	0	0	0	1	0
Walt Whitman High School	South Cafeteria	HVAC	Steam	0	0	0	0	0	0	0	0
Walt Whitman High School	Custodial Hall Exit	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	Custodial Hall Exit	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	118	HVAC	Steam	1	0	1	0	0	0	0	0
Walt Whitman High School	111	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	116	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	113	HVAC	Steam	0	0	0	0	0	0	0	0

Schedule 2

Building	Location	Equipment Type	Fuel / Energy Source	Unit Ventilator or (Pneumatic)	Unit Ventilator or (DDC)	Radiator Classroom / Office	Radiator Hall/Storage	Fan Coil	Convectors	Unit Heater	Window AC
Walt Whitman High School	Exit 38	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	113	HVAC	Steam	0	0	1	0	0	0	0	1
Walt Whitman High School	113 Office	HVAC	Steam	0	0	1	0	0	0	0	1
Walt Whitman High School	113 Office	HVAC	Steam	0	0	1	0	0	0	0	1
Walt Whitman High School	220	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	Custodial	HVAC	Steam	0	0	0	0	0	0	1	0
Walt Whitman High School	Stair by Exit 39	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	Exit 39	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	Mens	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	Women's	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	114	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	Exit 37	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	109	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	112	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	103	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	103	HVAC	Steam	0	0	0	0	0	0	0	1
Walt Whitman High School	106	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	104	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	101	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	101	HVAC	Steam	0	0	0	0	0	0	0	1
Walt Whitman High School	102	HVAC	Steam	1	0	1	0	0	0	0	1

Schedule 2

Building	Location	Equipment Type	Fuel / Energy Source	Unit Ventilator or (Pneumatic)	Unit Ventilator or (DDC)	Radiator Classroom / Office	Radiator Hall/Storage	Fan Coil	Convect or	Unit Heater	Window AC
Walt Whitman High School	Hall by 102	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	Exit 36	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	Exit 36	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	107	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	Stairwell by exit 14	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	Stairwell by exit 14	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	Exit 14	HVAC	Steam	0	0	0	0	0	0	0	0
Walt Whitman High School	Exit 14	HVAC	Steam	0	0	0	0	0	0	0	0
Walt Whitman High School	414	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	412	HVAC	Steam	0	0	1	0	0	0	0	1
Walt Whitman High School	411	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	Hall by 411	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	409	HVAC	Steam	1	0	1	0	0	0	0	0
Walt Whitman High School	406	HVAC	Steam	0	0	1	0	0	0	0	1
Walt Whitman High School	407	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	405	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	Hall by 405	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	Weight Room	HVAC	Steam	0	0	0	0	0	0	1	0
Walt Whitman High School	Weight Room	HVAC	Steam	0	0	0	0	0	0	1	0
Walt Whitman High School	110	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	105	HVAC	Steam	1	0	1	0	0	0	0	1

Schedule 2

Building	Location	Equipment Type	Fuel / Energy Source	Unit Ventilator (Pneumatic)	Unit Ventilator (DDC)	Radiator Classroom / Office	Radiator Hall/Storage	Fan Coil	Convector	Unit Heater	Window AC
Walt Whitman High School	108	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	410	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	408	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	Hall by 408	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	402	HVAC	Steam	0	0	0	0	0	0	1	0
Walt Whitman High School	402	HVAC	Steam	0	0	0	0	0	0	1	0
Walt Whitman High School	Exit 4	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	Exit 11	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	Teachers Center	HVAC	Steam	0	0	1	0	0	0	0	1
Walt Whitman High School	Hall by Exit 3	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	Exit 3	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	600 2nd Fl Storage	HVAC	Steam	0	0	0	0	0	0	0	0
Walt Whitman High School	636	HVAC	Steam	0	0	1	0	0	0	0	0
Walt Whitman High School	Hall by 636	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	634	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	634	HVAC	Steam	0	0	0	0	0	0	0	1
Walt Whitman High School	633	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	Hall by 633	HVAC	Steam	0	0	0	0	0	0	0	0
Walt Whitman High School	Faculty Mens	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	Faculty Women	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	631	HVAC	Steam	1	0	1	0	0	0	0	1

Schedule 2

Building	Location	Equipment Type	Fuel / Energy Source	Unit Ventilator or (Pneumatic)	Unit Ventilator or (DDC)	Radiator Classroom / Office	Radiator Hall/Storage	Fan Coil	Convect or	Unit Heater	Window AC
Walt Whitman High School	629	HVAC	Steam	0	0	1	0	0	0	0	0
Walt Whitman High School	Hallway by 629	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	632	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	217	HVAC	Steam	1	0	1	0	0	0	0	1
Walt Whitman High School	Stairwell Exit by 217	HVAC	Steam	0	0	0	1	0	0	0	0
Walt Whitman High School	Nurse	HVAC	Steam	0	0	1	0	0	0	0	1
Memorial Junior High School	Exit 3	HVAC	Hot Water	0	0	0	1	0	0	0	0
Memorial Junior High School	Exit 3	HVAC	Hot Water	0	0	0	1	0	0	0	0
Memorial Junior High School	116	HVAC	Hot Water	1	0	1	0	0	0	0	1
Memorial Junior High School	111	HVAC	Hot Water	1	0	1	0	0	0	0	1
Memorial Junior High School	109	HVAC	Hot Water	1	0	1	0	0	0	0	1
Memorial Junior High School	114	HVAC	Hot Water	1	0	1	0	0	0	0	1
Memorial Junior High School	107	HVAC	Hot Water	1	0	1	0	0	0	0	1
Memorial Junior High School	112	HVAC	Hot Water	1	0	1	0	0	0	0	1
Memorial Junior High School	110	HVAC	Hot Water	1	0	1	0	0	0	0	1
Memorial Junior High School	Hall by 110	HVAC	Hot Water	0	0	0	0	0	0	0	1
Memorial Junior High School	Boys	HVAC	Hot Water	0	0	0	1	0	0	0	0
Memorial Junior High School	Girls	HVAC	Hot Water	0	0	0	1	0	0	0	0
Memorial Junior High School	108	HVAC	Hot Water	1	0	1	0	0	0	0	1
Memorial Junior High School	106	HVAC	Hot Water	1	0	1	0	0	0	0	1
Memorial Junior High School	103	HVAC	Hot Water	1	0	1	0	0	0	0	1

Schedule 2

Building	Location	Equipment Type	Fuel / Energy Source	Unit Ventilator or (Pneumatic)	Unit Ventilator or (DDC)	Radiator Classroom / Office	Radiator Hall/Storage	Fan Coil	Convector	Unit Heater	Window AC
Memorial Junior High School	104	HVAC	Hot Water	1	0	1	0	0	0	0	1
Memorial Junior High School	104	HVAC	Hot Water	0	0	0	0	0	0	0	1
Memorial Junior High School	101	HVAC	Hot Water	1	0	1	0	0	0	0	1
Memorial Junior High School	Hall by 101	HVAC	Hot Water	0	0	0	1	0	0	0	0
Memorial Junior High School	102	HVAC	Hot Water	1	0	1	0	0	0	0	1
Memorial Junior High School	100	HVAC	Hot Water	1	0	1	0	0	0	0	1
Memorial Junior High School	Exit 2	HVAC	Hot Water	0	0	0	1	0	0	0	0
Memorial Junior High School	Business Office	HVAC	Hot Water	1	0	1	0	0	0	0	1
Memorial Junior High School	Faculty	HVAC	Hot Water	0	0	0	0	0	0	0	1
Memorial Junior High School	105	HVAC	Hot Water	1	0	1	0	0	0	0	1
Memorial Junior High School	Faculty	HVAC	Hot Water	0	0	0	0	0	0	0	1
Memorial Junior High School	Faculty	HVAC	Hot Water	0	0	0	0	0	0	0	1
Memorial Junior High School	Hall by Faculty	HVAC	Hot Water	0	0	0	1	0	0	0	0
Memorial Junior High School	Hall by Faculty	HVAC	Hot Water	0	0	0	1	0	0	0	0
Memorial Junior High School	Special Services	HVAC	Hot Water	0	0	1	0	0	0	0	0
Memorial Junior High School	501	HVAC	Hot Water	1	0	0	0	0	0	0	0
Memorial Junior High School	201	HVAC	Hot Water	1	0	1	0	0	0	0	1
Memorial Junior High School	200	HVAC	Hot Water	1	0	1	0	0	0	0	1
Memorial Junior High School	203	HVAC	Hot Water	1	0	1	0	0	0	0	1
Memorial Junior High School	202	HVAC	Hot Water	1	0	1	0	0	0	0	1
Memorial Junior High School	Girls	HVAC	Hot Water	0	0	0	1	0	0	0	0

Schedule 2

Building	Location	Equipment Type	Fuel / Energy Source	Unit Ventilator or (Pneumatic)	Unit Ventilator (DDC)	Radiator Classroom / Office	Radiator Hall/Storage	Fan Coil	Convector	Unit Heater	Window AC
Memorial Junior High School	Boys	HVAC	Hot Water	0	0	0	1	0	0	0	0
Memorial Junior High School	204	HVAC	Hot Water	1	0	1	0	0	0	0	1
Memorial Junior High School	Hall by 204	HVAC	Hot Water	0	0	0	1	0	0	0	0
Memorial Junior High School	206	HVAC	Hot Water	1	0	1	0	0	0	0	1
Memorial Junior High School	205	HVAC	Hot Water	1	0	1	0	0	0	0	1
Memorial Junior High School	207	HVAC	Hot Water	1	0	1	0	0	0	0	1
Memorial Junior High School	208	HVAC	Hot Water	1	0	1	0	0	0	0	1
Memorial Junior High School	209	HVAC	Hot Water	1	0	1	0	0	0	0	1
Memorial Junior High School	210	HVAC	Hot Water	1	0	1	0	0	0	0	1
Memorial Junior High School	212	HVAC	Hot Water	1	0	1	0	0	0	0	1
Memorial Junior High School	211	HVAC	Hot Water	1	0	1	0	0	0	0	1
Memorial Junior High School	Exit 3	HVAC	Hot Water	0	0	0	1	0	0	0	0
Memorial Junior High School	Head Of School	HVAC	Hot Water	1	0	0	1	0	0	0	1
Memorial Junior High School	Hall by Library	HVAC	Hot Water	0	0	0	1	0	0	0	0
Memorial Junior High School	Hall by Library	HVAC	Hot Water	0	0	0	1	0	0	0	0
Memorial Junior High School	Hall by Main Office	HVAC	Hot Water	0	0	0	1	0	0	0	0
Memorial Junior High School	Main Office	HVAC	Hot Water	0	0	1	0	0	0	0	1
Memorial Junior High School	Main Office	HVAC	Hot Water	0	0	1	0	0	0	0	1
Memorial Junior High School	Library	HVAC	Hot Water	1	0	1	0	0	0	0	1
Memorial Junior High School	Library	HVAC	Hot Water	1	0	1	0	0	0	0	1
Memorial Junior High School	Library Storage	HVAC	Hot Water	0	0	0	1	0	0	0	0

Schedule 2

Building	Location	Equipment Type	Fuel / Energy Source	Unit Ventilator or (Pneumatic)	Unit Ventilator or (DDC)	Radiator Classroom / Office	Radiator Hall/Storage	Fan Coil	Convector	Unit Heater	Window AC
Memorial Junior High School	Main Office	HVAC	Hot Water	0	0	1	0	0	0	0	1
Memorial Junior High School	Main Office	HVAC	Hot Water	0	0	1	0	0	0	0	1
Memorial Junior High School	Main Office	HVAC	Hot Water	0	0	1	0	0	0	0	1
Memorial Junior High School	Main Office	HVAC	Hot Water	0	0	1	0	0	0	0	1
Memorial Junior High School	Main Office	HVAC	Hot Water	0	0	1	0	0	0	0	1
Memorial Junior High School	Hall by 301	HVAC	Hot Water	0	0	0	1	0	0	0	0
Memorial Junior High School	300	HVAC	Hot Water	1	0	1	0	0	0	0	1
Memorial Junior High School	300	HVAC	Hot Water	0	0	0	0	0	0	0	1
Memorial Junior High School	303	HVAC	Hot Water	1	0	0	0	0	0	0	1
Memorial Junior High School	Nurse	HVAC	Hot Water	1	0	0	0	0	0	0	1
Memorial Junior High School	302	HVAC	Hot Water	1	0	1	0	0	0	0	1
Memorial Junior High School	Girls	HVAC	Hot Water	0	0	0	1	0	0	0	0
Memorial Junior High School	Boys	HVAC	Hot Water	0	0	0	1	0	0	0	0
Memorial Junior High School	304	HVAC	Hot Water	1	0	1	0	0	0	0	1
Memorial Junior High School	Hall by 305	HVAC	Hot Water	0	0	0	1	0	0	0	0
Memorial Junior High School	305	HVAC	Hot Water	1	0	1	0	0	0	0	1
Memorial Junior High School	306	HVAC	Hot Water	1	0	1	0	0	0	0	1
Memorial Junior High School	307	HVAC	Hot Water	1	0	1	0	0	0	0	1
Memorial Junior High School	308	HVAC	Hot Water	1	0	1	0	0	0	0	1
Memorial Junior High School	309	HVAC	Hot Water	1	0	1	0	0	0	0	1
Memorial Junior High School	310	HVAC	Hot Water	1	0	1	0	0	0	0	1

Schedule 2

Building	Location	Equipment Type	Fuel / Energy Source	Unit Ventilator (Pneumatic)	Unit Ventilator (DDC)	Radiator Classroom / Office	Radiator Hall/Storage	Fan Coil	Convect or	Unit Heater	Window AC
Memorial Junior High School	311	HVAC	Hot Water	1	0	1	0	0	0	0	1
Memorial Junior High School	312	HVAC	Hot Water	1	0	1	0	0	0	0	1
Memorial Junior High School	312	HVAC	Hot Water	0	0	0	0	0	0	0	1
Memorial Junior High School	312 Store Room	HVAC	Hot Water	0	0	0	1	0	0	0	0
Memorial Junior High School	Gym	HVAC	Hot Water	0	0	0	0	0	0	0	0
Memorial Junior High School	Gym	HVAC	Hot Water	0	0	0	0	0	0	0	0
Memorial Junior High School	Small Gym	HVAC	Hot Water	1	0	1	0	0	0	0	0
Memorial Junior High School	Small Gym	HVAC	Hot Water	1	0	1	0	0	0	0	0
Memorial Junior High School	Hall by Small Gym	HVAC	Hot Water	0	0	0	1	0	0	0	0
Memorial Junior High School	Hall by Small Gym	HVAC	Hot Water	0	0	0	1	0	0	0	0
Memorial Junior High School	407	HVAC	Hot Water	1	0	0	0	0	0	0	1
Memorial Junior High School	405	HVAC	Hot Water	1	0	0	0	0	0	0	1
Memorial Junior High School	403	HVAC	Hot Water	1	0	0	0	0	0	0	1
Memorial Junior High School	Hall by Main Office	HVAC	Hot Water	0	0	0	1	0	0	0	0
Memorial Junior High School	Main Office	HVAC	Hot Water	1	0	0	0	0	0	0	1
Memorial Junior High School	Main Office	HVAC	Hot Water	0	0	1	0	0	0	0	1
Memorial Junior High School	401	HVAC	Hot Water	1	0	0	0	0	0	0	1
Memorial Junior High School	401	HVAC	Hot Water	1	0	0	0	0	0	0	1
Memorial Junior High School	Hall by 401	HVAC	Hot Water	0	0	0	1	0	0	0	0
Memorial Junior High School	Hall by 401	HVAC	Hot Water	0	0	0	1	0	0	0	0
Memorial Junior High School	510	HVAC	Hot Water	0	0	1	0	0	1	0	1

Schedule 2

Building	Location	Equipment Type	Fuel / Energy Source	Unit Ventilator or (Pneumatic)	Unit Ventilator or (DDC)	Radiator Classroom / Office	Radiator Hall/Storage	Fan Coil	Convect or	Unit Heater	Window AC
Memorial Junior High School	510	HVAC	Hot Water	0	0	1	0	0	0	0	0
Memorial Junior High School	510	HVAC	Hot Water	0	0	1	0	0	0	0	0
Memorial Junior High School	510	HVAC	Hot Water	0	0	1	0	0	0	0	0
Memorial Junior High School	510	HVAC	Hot Water	0	0	1	0	0	0	0	0
Memorial Junior High School	West Cafeteria	HVAC	Hot Water	1	0	0	1	0	0	0	1
Memorial Junior High School	West Cafeteria	HVAC	Hot Water	1	0	0	1	0	0	0	1
Memorial Junior High School	Hall by Cafeteria	HVAC	Hot Water	0	0	0	1	0	0	0	0
Memorial Junior High School	Auditorium	HVAC	Hot Water	1	0	0	0	0	0	0	0
Memorial Junior High School	Auditorium	HVAC	Hot Water	1	0	0	0	0	0	0	0
Memorial Junior High School	Auditorium	HVAC	Hot Water	1	0	0	0	0	0	0	0
Memorial Junior High School	Auditorium	HVAC	Hot Water	1	0	0	0	0	0	0	0
Memorial Junior High School	Kitchen	HVAC	Hot Water	0	0	0	0	0	0	1	1
Memorial Junior High School	Kitchen Hall	HVAC	Hot Water	0	0	0	1	0	0	0	0
Memorial Junior High School	Multipurpose	HVAC	Hot Water	1	0	0	1	0	0	0	1
Memorial Junior High School	Multipurpose	HVAC	Hot Water	1	0	0	1	0	0	0	1
Memorial Junior High School	Loading	HVAC	Hot Water	0	0	0	0	0	0	1	0
Memorial Junior High School	Stair by Exit 9	HVAC	Hot Water	0	0	0	1	0	0	0	0
Memorial Junior High School	Exit 9	HVAC	Hot Water	0	0	0	1	0	0	0	0
Memorial Junior High School	Maint	HVAC	Hot Water	0	0	0	0	0	0	0	1
Memorial Junior High School	Maint	HVAC	Hot Water	0	0	0	0	0	0	0	1
Memorial Junior High School	403	HVAC	Hot Water	0	0	0	0	0	0	0	1

Schedule 2

Building	Location	Equipment Type	Fuel / Energy Source	Unit Ventilator or (Pneumatic)	Unit Ventilator or (DDC)	Radiator Classroom / Office	Radiator Hall/Storage	Fan Coil	Convector	Unit Heater	Window AC
Memorial Junior High School	Exit 8	HVAC	Hot Water	0	0	0	0	0	0	0	1
Memorial Junior High School	313	HVAC	Hot Water	1	0	1	0	0	0	0	0
Memorial Junior High School	Boys	HVAC	Hot Water	0	0	0	1	0	0	0	0
Memorial Junior High School	Girls	HVAC	Hot Water	0	0	0	1	0	0	0	0
Memorial Junior High School	317	HVAC	Hot Water	1	0	1	0	0	0	0	1
Memorial Junior High School	319	HVAC	Hot Water	1	0	1	0	0	0	0	1
Memorial Junior High School	321	HVAC	Hot Water	1	0	1	0	0	0	0	1
Memorial Junior High School	323	HVAC	Hot Water	1	0	1	0	0	0	0	1
Maplewood Intermediate School	2nd Floor Stair	HVAC	Steam	0	0	0	1	0	0	0	0
Maplewood Intermediate School	2nd Floor Hall	HVAC	Steam	0	0	0	1	0	0	0	0
Maplewood Intermediate School	2nd Floor Boys	HVAC	Steam	0	0	0	1	0	0	0	0
Maplewood Intermediate School	2nd Floor Girls	HVAC	Steam	0	0	0	1	0	0	0	0
Maplewood Intermediate School	212	HVAC	Steam	0	1	1	0	0	0	0	1
Maplewood Intermediate School	210	HVAC	Steam	0	1	1	0	0	0	0	1
Maplewood Intermediate School	211	HVAC	Steam	0	1	1	0	0	0	0	1
Maplewood Intermediate School	209	HVAC	Steam	0	1	1	0	0	0	0	1
Maplewood Intermediate School	208	HVAC	Steam	0	1	1	0	0	0	0	1
Maplewood Intermediate School	207	HVAC	Steam	0	1	1	0	0	0	0	1
Maplewood Intermediate School	Stair By 207	HVAC	Steam	0	0	0	1	0	0	0	0
Maplewood Intermediate School	206	HVAC	Steam	0	1	1	0	0	0	0	1
Maplewood Intermediate School	Hall by 206	HVAC	Steam	0	0	0	1	0	0	0	0

Schedule 2

Building	Location	Equipment Type	Fuel / Energy Source	Unit Ventilator or (Pneumatic)	Unit Ventilator or (DDC)	Radiator Classroom / Office	Radiator Hall/Storage	Fan Coil	Convector	Unit Heater	Window AC
Maplewood Intermediate School	Hall by 206	HVAC	Steam	0	0	0	1	0	0	0	0
Maplewood Intermediate School	205	HVAC	Steam	0	1	1	0	0	0	0	1
Maplewood Intermediate School	203	HVAC	Steam	0	1	1	0	0	0	0	1
Maplewood Intermediate School	204	HVAC	Steam	0	1	1	0	0	0	0	1
Maplewood Intermediate School	202	HVAC	Steam	0	1	1	0	0	0	0	1
Maplewood Intermediate School	201	HVAC	Steam	0	1	1	0	0	0	0	0
Maplewood Intermediate School	200	HVAC	Steam	0	0	1	0	0	0	0	0
Maplewood Intermediate School	200	HVAC	Steam	0	0	1	0	0	0	0	0
Maplewood Intermediate School	200	HVAC	Steam	0	0	1	0	0	0	0	0
Maplewood Intermediate School	2nd Floor Boys	HVAC	Steam	0	0	0	1	0	0	0	0
Maplewood Intermediate School	2nd Floor Girls	HVAC	Steam	0	0	0	1	0	0	0	0
Maplewood Intermediate School	100	HVAC	Steam	0	0	1	0	0	0	0	0
Maplewood Intermediate School	Hall by 200	HVAC	Steam	0	0	0	1	0	0	0	0
Maplewood Intermediate School	101	HVAC	Steam	0	1	1	0	0	0	0	1
Maplewood Intermediate School	102	HVAC	Steam	0	1	1	0	0	0	0	1
Maplewood Intermediate School	104	HVAC	Steam	0	1	1	0	0	0	0	1
Maplewood Intermediate School	104	HVAC	Steam	0	0	0	0	0	0	0	0
Maplewood Intermediate School	Library	HVAC	Steam	0	1	1	0	0	0	0	1
Maplewood Intermediate School	Library	HVAC	Steam	0	1	1	0	0	0	0	0
Maplewood Intermediate School	Hall by Library	HVAC	Steam	0	0	0	1	0	0	0	0
Maplewood Intermediate School	106	HVAC	Steam	0	1	1	0	0	0	0	1

Schedule 2

Building	Location	Equipment Type	Fuel / Energy Source	Unit Ventilator or (Pneumatic)	Unit Ventilator or (DDC)	Radiator Classroom / Office	Radiator Hall/Storage	Fan Coil	Convector	Unit Heater	Window AC
Maplewood Intermediate School	Stair Exit by 105	HVAC	Steam	0	0	0	1	0	0	0	0
Maplewood Intermediate School	105	HVAC	Steam	0	1	1	0	0	0	0	1
Maplewood Intermediate School	108	HVAC	Steam	0	1	1	0	0	0	0	1
Maplewood Intermediate School	107	HVAC	Steam	0	1	1	0	0	0	0	0
Maplewood Intermediate School	Custodial	HVAC	Steam	0	0	1	0	0	0	0	0
Maplewood Intermediate School	Custodial Bath	HVAC	Steam	0	0	0	1	0	0	0	0
Maplewood Intermediate School	Kitchen Hall	HVAC	Steam	0	0	1	0	0	0	0	0
Maplewood Intermediate School	Kitchen	HVAC	Steam	0	0	0	0	0	0	1	0
Maplewood Intermediate School	Faculty Room	HVAC	Steam	0	1	1	0	0	0	0	1
Maplewood Intermediate School	Boys	HVAC	Steam	0	0	0	1	0	0	0	0
Maplewood Intermediate School	Girls	HVAC	Steam	0	0	0	1	0	0	0	0
Maplewood Intermediate School	Cafeteria	HVAC	Steam	0	0	0	0	0	0	0	0
Maplewood Intermediate School	112	HVAC	Steam	0	1	1	0	0	0	0	1
Maplewood Intermediate School	112	HVAC	Steam	0	0	0	0	0	0	0	1
Maplewood Intermediate School	Main Entrance	HVAC	Steam	0	0	0	0	0	1	0	0
Maplewood Intermediate School	Gym Office	HVAC	Steam	0	0	1	0	0	0	0	0
Maplewood Intermediate School	Hall by 118	HVAC	Steam	0	0	0	1	0	0	0	0
Maplewood Intermediate School	Hall by 118	HVAC	Steam	0	0	0	1	0	0	0	0
Maplewood Intermediate School	118	HVAC	Steam	0	0	1	0	0	0	0	0
Maplewood Intermediate School	123	HVAC	Steam	0	1	1	0	0	0	0	0
Maplewood Intermediate School	Hall by 123	HVAC	Steam	0	0	0	1	0	0	0	0

Schedule 2

Building	Location	Equipment Type	Fuel / Energy Source	Unit Ventilator or (Pneumatic)	Unit Ventilator or (DDC)	Radiator Classroom / Office	Radiator Hall/Storage	Fan Coil	Convect or	Unit Heater	Window AC
Maplewood Intermediate School	122	HVAC	Steam	0	1	1	0	0	0	0	1
Maplewood Intermediate School	121	HVAC	Steam	0	1	1	0	0	0	0	1
Maplewood Intermediate School	120	HVAC	Steam	0	1	1	0	0	0	0	0
Maplewood Intermediate School	120 bath	HVAC	Steam	0	0	1	0	0	0	0	0
Maplewood Intermediate School	Hall by 120	HVAC	Steam	0	0	0	1	0	0	0	0
Maplewood Intermediate School	Hall by 120	HVAC	Steam	0	0	0	1	0	0	0	0
Maplewood Intermediate School	119	HVAC	Steam	0	1	1	0	0	0	0	0
Maplewood Intermediate School	119 Bath	HVAC	Steam	0	0	0	1	0	0	0	0
Maplewood Intermediate School	Exit by 117	HVAC	Steam	0	0	0	1	0	0	0	0
Maplewood Intermediate School	117 Office	HVAC	Steam	0	0	1	0	0	0	0	0
Maplewood Intermediate School	115	HVAC	Steam	0	1	1	0	0	0	0	1
Maplewood Intermediate School	116	HVAC	Steam	0	1	1	0	0	0	0	1
Maplewood Intermediate School	113	HVAC	Steam	0	1	1	0	0	0	0	0
Maplewood Intermediate School	Hall by 113	HVAC	Steam	0	0	0	1	0	0	0	0
Maplewood Intermediate School	114	HVAC	Steam	0	1	1	0	0	0	0	1
Maplewood Intermediate School	111	HVAC	Steam	0	1	1	0	0	0	0	0
Maplewood Intermediate School	Portable hall	HVAC	Electric	0	0	0	1	0	0	0	0
Maplewood Intermediate School	Portable hall	HVAC	Electric	0	0	0	1	0	0	0	0
Maplewood Intermediate School	Portable hall	HVAC	Electric	0	0	0	1	0	0	0	0
Maplewood Intermediate School	Portable hall	HVAC	Steam	0	0	0	1	0	0	0	0
Maplewood Intermediate School	Portable hall	HVAC	Steam	0	0	0	1	0	0	0	0

Schedule 2

Building	Location	Equipment Type	Fuel / Energy Source	Unit Ventilator (Pneumatic)	Unit Ventilator (DDC)	Radiator Classroom / Office	Radiator Hall/Storage	Fan Coil	Convector	Unit Heater	Window AC
Maplewood Intermediate School	Portable 133	HVAC	Gas	0	0	0	0	0	0	0	0
Maplewood Intermediate School	Portable 132	HVAC	Gas	0	0	0	0	0	0	0	0
Maplewood Intermediate School	Portable 131	HVAC	Gas	0	0	0	0	0	0	0	0
Maplewood Intermediate School	Portable 130	HVAC	Gas	0	0	0	0	0	0	0	0
Maplewood Intermediate School	Portable hall	HVAC	Electric	0	0	0	0	0	0	0	0
Maplewood Intermediate School	Portable hall	HVAC	Electric	0	0	0	0	0	0	0	0
Maplewood Intermediate School	Main Office	HVAC	Steam	0	0	1	0	0	0	0	1
Maplewood Intermediate School	Principal	HVAC	Steam	0	0	1	0	0	0	0	1
Maplewood Intermediate School	AP	HVAC	Steam	0	0	1	0	0	0	0	0
Maplewood Intermediate School	Nurse	HVAC	Steam	0	0	1	0	0	0	0	0
Stimson Middle School	Boys	HVAC	Hot Water	0	0	0	1	0	0	0	0
Stimson Middle School	Gym	HVAC	Hot Water	0	0	0	0	0	0	0	0
Stimson Middle School	Exit 17	HVAC	Hot Water	0	0	0	1	0	0	0	0
Stimson Middle School	Girls Locker Exit	HVAC	Hot Water	0	0	0	1	0	0	0	0
Stimson Middle School	Gym Lobby	HVAC	Hot Water	0	0	0	1	0	0	0	0
Stimson Middle School	Aux Gym Hall	HVAC	Hot Water	0	0	0	1	0	0	0	0
Stimson Middle School	Aux Gym Hall	HVAC	Hot Water	0	0	0	1	0	0	0	0
Stimson Middle School	Aux Gym	HVAC	Hot Water	0	0	0	1	0	0	0	0
Stimson Middle School	Aux Gym Fan Room	HVAC	Hot Water	0	1	0	0	0	0	0	0
Stimson Middle School	Nurse	HVAC	Hot Water	0	0	1	0	0	0	0	1
Stimson Middle School	Main Lobby	HVAC	Hot Water	0	0	0	1	0	0	0	0

Schedule 2

Building	Location	Equipment Type	Fuel / Energy Source	Unit Ventilator or (Pneumatic)	Unit Ventilator or (DDC)	Radiator Classroom / Office	Radiator Hall/Storage	Fan Coil	Convectors	Unit Heater	Window AC
Stimson Middle School	Main Entrance	HVAC	Hot Water	0	0	0	1	0	0	0	0
Stimson Middle School	Main Office	HVAC	Hot Water	0	0	1	0	0	0	0	1
Stimson Middle School	610 Principal	HVAC	Hot Water	0	0	1	0	0	0	0	1
Stimson Middle School	610 Principal	HVAC	Hot Water	0	0	1	0	0	0	0	1
Stimson Middle School	Guidance	HVAC	Hot Water	0	0	0	0	0	0	0	0
Stimson Middle School	Guidance	HVAC	Hot Water	0	0	0	0	0	0	0	0
Stimson Middle School	Guidance Office	HVAC	Hot Water	0	0	1	0	0	0	0	1
Stimson Middle School	625	HVAC	Hot Water	0	0	1	0	0	0	0	1
Stimson Middle School	001	HVAC	Hot Water	0	0	1	0	0	0	0	1
Stimson Middle School	105	HVAC	Hot Water	1	0	1	0	0	0	0	1
Stimson Middle School	105	HVAC	Hot Water	1	0	1	0	0	0	0	1
Stimson Middle School	Exit 8	HVAC	Hot Water	0	0	0	1	0	0	0	0
Stimson Middle School	Exit 8	HVAC	Hot Water	0	0	0	1	0	0	0	0
Stimson Middle School	100 Faculty	HVAC	Hot Water	0	0	1	0	0	0	0	1
Stimson Middle School	Boys	HVAC	Hot Water	0	0	0	1	0	0	0	0
Stimson Middle School	Girls	HVAC	Hot Water	0	0	0	1	0	0	0	0
Stimson Middle School	Mens Room	HVAC	Hot Water	0	0	0	1	0	0	0	0
Stimson Middle School	Women's Room	HVAC	Hot Water	0	0	0	1	0	0	0	0
Stimson Middle School	104	HVAC	Hot Water	1	0	1	0	0	0	0	0
Stimson Middle School	Shop Exit 7	HVAC	Hot Water	0	0	0	1	0	0	0	0
Stimson Middle School	103	HVAC	Hot Water	1	0	1	0	0	0	0	0

Schedule 2

Building	Location	Equipment Type	Fuel / Energy Source	Unit Ventilator (Pneumatic)	Unit Ventilator (DDC)	Radiator Classroom / Office	Radiator Hall/Storage	Fan Coil	Convector	Unit Heater	Window AC
Stimson Middle School	102	HVAC	Hot Water	1	0	1	0	0	0	0	0
Stimson Middle School	039 Deans Office	HVAC	Hot Water	0	0	0	0	0	0	0	1
Stimson Middle School	107	HVAC	Hot Water	1	0	1	0	0	0	0	1
Stimson Middle School	106	HVAC	Hot Water	1	0	1	0	0	0	0	1
Stimson Middle School	409	HVAC	Hot Water	1	0	1	0	0	0	0	0
Stimson Middle School	Boys	HVAC	Hot Water	0	0	0	1	0	0	0	0
Stimson Middle School	Girls	HVAC	Hot Water	0	0	0	1	0	0	0	0
Stimson Middle School	403	HVAC	Hot Water	1	0	1	0	0	0	0	1
Stimson Middle School	IMC	HVAC	Hot Water	0	0	1	0	0	0	0	0
Stimson Middle School	402	HVAC	Hot Water	1	0	1	0	0	0	0	1
Stimson Middle School	414	HVAC	Hot Water	1	0	1	0	0	0	0	1
Stimson Middle School	413	HVAC	Hot Water	1	0	1	0	0	0	0	1
Stimson Middle School	412	HVAC	Hot Water	1	0	1	0	0	0	0	0
Stimson Middle School	411	HVAC	Hot Water	1	0	1	0	0	0	0	1
Stimson Middle School	Library	HVAC	Hot Water	0	0	0	0	0	0	0	0
Stimson Middle School	Library	HVAC	Hot Water	0	0	0	0	0	0	0	0
Stimson Middle School	Library	HVAC	Hot Water	0	0	0	0	0	0	0	0
Stimson Middle School	410	HVAC	Hot Water	1	0	1	0	0	0	0	0
Stimson Middle School	098	HVAC	Hot Water	0	0	1	0	0	0	0	0
Stimson Middle School	Flyover Corridor	HVAC	Hot Water	0	0	0	0	0	1	0	0
Stimson Middle School	Flyover Corridor	HVAC	Hot Water	0	0	0	0	0	1	0	0

Schedule 2

Building	Location	Equipment Type	Fuel / Energy Source	Unit Ventilator (Pneumatic)	Unit Ventilator (DDC)	Radiator Classroom / Office	Radiator Hall/Storage	Fan Coil	Convector	Unit Heater	Window AC
Stimson Middle School	221	HVAC	Hot Water	1	0	1	0	0	0	0	1
Stimson Middle School	221	HVAC	Hot Water	0	0	0	0	0	0	0	1
Stimson Middle School	202	HVAC	Hot Water	1	0	1	0	0	0	0	1
Stimson Middle School	203	HVAC	Hot Water	1	0	1	0	0	0	0	0
Stimson Middle School	204	HVAC	Hot Water	1	0	1	0	0	0	0	1
Stimson Middle School	Workroom	HVAC	Hot Water	1	0	1	0	0	0	0	1
Stimson Middle School	205	HVAC	Hot Water	1	0	1	0	0	0	0	1
Stimson Middle School	207	HVAC	Hot Water	1	0	1	0	0	0	0	1
Stimson Middle School	207 Workroom	HVAC	Hot Water	0	0	1	0	0	0	0	0
Stimson Middle School	Forum	HVAC	Hot Water	0	0	0	0	0	0	0	0
Stimson Middle School	408	HVAC	Hot Water	1	0	1	0	0	0	0	0
Stimson Middle School	407	HVAC	Hot Water	1	0	1	0	0	0	0	1
Stimson Middle School	208	HVAC	Hot Water	1	0	1	0	0	0	0	1
Stimson Middle School	049	HVAC	Hot Water	0	0	1	0	0	0	0	1
Stimson Middle School	209	HVAC	Hot Water	1	0	1	0	0	0	0	1
Stimson Middle School	210	HVAC	Hot Water	1	0	1	0	0	0	0	1
Stimson Middle School	211	HVAC	Hot Water	1	0	1	0	0	0	0	1
Stimson Middle School	212	HVAC	Hot Water	1	0	1	0	0	0	0	1
Stimson Middle School	213	HVAC	Hot Water	1	0	1	0	0	0	0	1
Stimson Middle School	214	HVAC	Hot Water	1	0	1	0	0	0	0	1
Stimson Middle School	215	HVAC	Hot Water	1	0	1	0	0	0	0	1

Schedule 2

Building	Location	Equipment Type	Fuel / Energy Source	Unit Ventilator (Pneumatic)	Unit Ventilator (DDC)	Radiator Classroom / Office	Radiator Hall/Storage	Fan Coil	Convector	Unit Heater	Window AC
Stimson Middle School	216	HVAC	Hot Water	1	0	1	0	0	0	0	1
Stimson Middle School	217	HVAC	Hot Water	1	0	1	0	0	0	0	0
Stimson Middle School	218	HVAC	Hot Water	1	0	1	0	0	0	0	1
Stimson Middle School	219	HVAC	Hot Water	1	0	1	0	0	0	0	1
Stimson Middle School	220	HVAC	Hot Water	1	0	1	0	0	0	0	1
Stimson Middle School	302	HVAC	Hot Water	1	0	1	0	0	0	0	0
Stimson Middle School	315	HVAC	Hot Water	0	0	0	0	0	0	0	0
Stimson Middle School	303	HVAC	Hot Water	1	0	1	0	0	0	0	1
Stimson Middle School	304	HVAC	Hot Water	1	0	1	0	0	0	0	1
Stimson Middle School	77	HVAC	Hot Water	0	0	0	0	0	0	0	0
Stimson Middle School	308	HVAC	Hot Water	1	0	1	0	0	0	0	0
Stimson Middle School	309	HVAC	Hot Water	1	0	1	0	0	0	0	1
Stimson Middle School	310	HVAC	Hot Water	1	0	1	0	0	0	0	0
Stimson Middle School	311	HVAC	Hot Water	1	0	1	0	0	0	0	1
Stimson Middle School	312	HVAC	Hot Water	1	0	1	0	0	0	0	1
Stimson Middle School	084	HVAC	Hot Water	0	0	0	0	0	0	0	0
Stimson Middle School	313	HVAC	Hot Water	1	0	1	0	0	0	0	1
Stimson Middle School	314	HVAC	Hot Water	1	0	1	0	0	0	0	1
Stimson Middle School	Hall by Gym	HVAC	Hot Water	0	0	0	1	0	0	0	0
Stimson Middle School	Gym Lobby	HVAC	Hot Water	0	0	0	1	0	0	0	0
Stimson Middle School	Girls	HVAC	Hot Water	0	0	0	1	0	0	0	0

Schedule 2

Building	Location	Equipment Type	Fuel / Energy Source	Unit Ventilator or (Pneumatic)	Unit Ventilator or (DDC)	Radiator Classroom / Office	Radiator Hall/Storage	Fan Coil	Convect or	Unit Heater	Window AC
Stimson Middle School	Boys Locker Exit	HVAC	Hot Water	0	0	0	1	0	0	0	0
Stimson Middle School	406	HVAC	Hot Water	1	0	1	0	0	0	0	1
Stimson Middle School	405	HVAC	Hot Water	1	0	1	0	0	0	0	1
Stimson Middle School	404	HVAC	Hot Water	1	0	1	0	0	0	0	0
Stimson Middle School	305	HVAC	Hot Water	1	0	1	0	0	0	0	1
Stimson Middle School	306	HVAC	Hot Water	1	0	1	0	0	0	0	1
Stimson Middle School	316	HVAC	Hot Water	0	0	0	0	0	0	0	0
Stimson Middle School	Hall by Exit 4	HVAC	Hot Water	0	0	0	1	0	0	0	0
Stimson Middle School	Exit 4	HVAC	Hot Water	0	0	0	1	0	0	0	0
Stimson Middle School	Hall by Gym	HVAC	Hot Water	0	0	0	1	0	0	0	0
Stimson Middle School	Girls Locker Fan Room	HVAC	Hot Water	0	0	0	1	0	0	0	0
Stimson Middle School	Boys Locker Fan Room	HVAC	Hot Water	0	0	0	1	0	0	0	0
Silas Wood Sixth Grade Center	214	HVAC	Steam	0	1	0	0	0	0	0	1
Silas Wood Sixth Grade Center	215	HVAC	Steam	0	1	0	0	0	0	0	1
Silas Wood Sixth Grade Center	213	HVAC	Steam	0	1	0	0	0	0	0	1
Silas Wood Sixth Grade Center	212	HVAC	Steam	0	1	0	0	0	0	0	1
Silas Wood Sixth Grade Center	211	HVAC	Steam	0	0	1	0	0	0	0	0
Silas Wood Sixth Grade Center	2nd Floor Girls	HVAC	Steam	0	0	1	1	0	0	0	0
Silas Wood Sixth Grade Center	2nd Floor Boys	HVAC	Steam	0	0	1	1	0	0	0	0
Silas Wood Sixth Grade Center	210	HVAC	Steam	0	1	0	0	0	0	0	1
Silas Wood Sixth Grade Center	Staff Lounge	HVAC	Steam	0	1	1	0	0	0	0	1

Schedule 2

Building	Location	Equipment Type	Fuel / Energy Source	Unit Ventilator (Pneumatic)	Unit Ventilator (DDC)	Radiator Classroom / Office	Radiator Hall/Storage	Fan Coil	Convector	Unit Heater	Window AC
Silas Wood Sixth Grade Center	206	HVAC	Steam	0	0	1	0	0	0	0	0
Silas Wood Sixth Grade Center	203	HVAC	Steam	0	1	0	0	0	0	0	1
Silas Wood Sixth Grade Center	204	HVAC	Steam	0	1	0	0	0	0	0	1
Silas Wood Sixth Grade Center	201	HVAC	Steam	0	1	0	0	0	0	0	1
Silas Wood Sixth Grade Center	202	HVAC	Steam	0	1	0	0	0	0	0	1
Silas Wood Sixth Grade Center	2nd Floor Storage	HVAC	Steam	0	0	0	1	0	0	0	0
Silas Wood Sixth Grade Center	Faculty Mens	HVAC	Steam	0	0	0	1	0	0	0	0
Silas Wood Sixth Grade Center	Faculty Women	HVAC	Steam	0	0	0	1	0	0	0	0
Silas Wood Sixth Grade Center	220	HVAC	Steam	0	1	0	0	0	0	0	0
Silas Wood Sixth Grade Center	Stair by 220	HVAC	Steam	0	0	0	1	0	0	0	0
Silas Wood Sixth Grade Center	Library	HVAC	Steam	0	1	0	0	0	0	0	0
Silas Wood Sixth Grade Center	Library	HVAC	Steam	0	1	0	0	0	0	0	0
Silas Wood Sixth Grade Center	225	HVAC	Steam	0	1	0	0	0	0	0	0
Silas Wood Sixth Grade Center	226	HVAC	Steam	0	1	0	0	0	0	0	0
Silas Wood Sixth Grade Center	228	HVAC	Steam	0	1	0	0	0	0	0	0
Silas Wood Sixth Grade Center	227	HVAC	Steam	0	1	0	0	0	0	0	0
Silas Wood Sixth Grade Center	224	HVAC	Steam	0	1	0	0	0	0	0	1
Silas Wood Sixth Grade Center	222	HVAC	Steam	0	1	0	0	0	0	0	1
Silas Wood Sixth Grade Center	Hall by 222	HVAC	Steam	0	0	0	1	0	0	0	0
Silas Wood Sixth Grade Center	Stairwell Exit by 128	HVAC	Steam	0	0	0	1	0	0	0	0
Silas Wood Sixth Grade Center	Stairwell Exit by 128	HVAC	Steam	0	0	0	1	0	0	0	0

Schedule 2

Building	Location	Equipment Type	Fuel / Energy Source	Unit Ventilator (Pneumatic)	Unit Ventilator (DDC)	Radiator Classroom / Office	Radiator Hall/Storage	Fan Coil	Convector	Unit Heater	Window AC
Silas Wood Sixth Grade Center	128	HVAC	Steam	0	1	0	0	0	0	0	1
Silas Wood Sixth Grade Center	127	HVAC	Steam	0	1	0	0	0	0	0	1
Silas Wood Sixth Grade Center	125	HVAC	Steam	0	1	0	0	0	0	0	1
Silas Wood Sixth Grade Center	126	HVAC	Steam	0	1	0	0	0	0	0	1
Silas Wood Sixth Grade Center	Hall by 126	HVAC	Steam	0	0	0	1	0	0	0	0
Silas Wood Sixth Grade Center	124	HVAC	Steam	0	1	0	0	0	0	0	0
Silas Wood Sixth Grade Center	122	HVAC	Steam	0	1	0	0	0	0	0	0
Silas Wood Sixth Grade Center	123	HVAC	Steam	0	1	0	0	0	0	0	1
Silas Wood Sixth Grade Center	121	HVAC	Steam	0	1	0	0	0	0	0	1
Silas Wood Sixth Grade Center	119	HVAC	Steam	0	0	1	0	0	0	0	0
Silas Wood Sixth Grade Center	Stairwell exit by 119	HVAC	Steam	0	0	0	1	0	0	0	0
Silas Wood Sixth Grade Center	Guidance	HVAC	Steam	0	1	0	0	0	0	0	1
Silas Wood Sixth Grade Center	Entrance	HVAC	Steam	0	0	0	0	0	1	0	0
Silas Wood Sixth Grade Center	Hall by Main Office	HVAC	Steam	0	0	0	1	0	0	0	0
Silas Wood Sixth Grade Center	Main Office	HVAC	Steam	0	0	1	0	0	0	0	0
Silas Wood Sixth Grade Center	Principal	HVAC	Steam	0	0	1	0	0	0	0	0
Silas Wood Sixth Grade Center	Hall by Nurse	HVAC	Steam	0	0	0	1	0	0	0	0
Silas Wood Sixth Grade Center	Nurse	HVAC	Steam	0	0	1	0	0	0	0	1
Silas Wood Sixth Grade Center	001	HVAC	Steam	0	0	1	0	0	0	0	0
Silas Wood Sixth Grade Center	105	HVAC	Steam	0	1	0	0	0	0	0	1
Silas Wood Sixth Grade Center	106	HVAC	Steam	0	1	0	0	0	0	0	1

Schedule 2

Building	Location	Equipment Type	Fuel / Energy Source	Unit Ventilator (Pneumatic)	Unit Ventilator (DDC)	Radiator Classroom / Office	Radiator Hall/Storage	Fan Coil	Convect or	Unit Heater	Window AC
Silas Wood Sixth Grade Center	103	HVAC	Steam	0	1	0	0	0	0	0	1
Silas Wood Sixth Grade Center	103	HVAC	Steam	0	0	0	0	0	0	0	1
Silas Wood Sixth Grade Center	104	HVAC	Steam	0	1	0	0	0	0	0	1
Silas Wood Sixth Grade Center	101	HVAC	Steam	0	1	1	0	0	0	0	0
Silas Wood Sixth Grade Center	102	HVAC	Steam	0	1	0	0	0	0	0	1
Silas Wood Sixth Grade Center	102	HVAC	Steam	0	0	0	0	0	0	0	1
Silas Wood Sixth Grade Center	Stair Exit by 102	HVAC	Steam	0	0	0	1	0	0	0	0
Silas Wood Sixth Grade Center	Stair Exit by 102	HVAC	Steam	0	0	0	1	0	0	0	0
Silas Wood Sixth Grade Center	110	HVAC	Steam	0	1	0	0	0	0	0	1
Silas Wood Sixth Grade Center	110	HVAC	Steam	0	0	0	0	0	0	0	1
Silas Wood Sixth Grade Center	Cafeteria	HVAC	Steam	0	1	0	0	0	0	0	0
Silas Wood Sixth Grade Center	Cafeteria	HVAC	Steam	0	0	0	0	0	0	0	0
Silas Wood Sixth Grade Center	Custodial	HVAC	Steam	0	0	1	0	0	0	0	0
Silas Wood Sixth Grade Center	112	HVAC	Steam	0	1	0	0	0	0	0	1
Silas Wood Sixth Grade Center	111	HVAC	Steam	0	1	0	0	0	0	0	1
Silas Wood Sixth Grade Center	114	HVAC	Steam	0	1	0	0	0	0	0	1
Silas Wood Sixth Grade Center	113	HVAC	Steam	0	1	0	0	0	0	0	1
Silas Wood Sixth Grade Center	Exit by 113	HVAC	Steam	0	0	0	1	0	0	0	0
Silas Wood Sixth Grade Center	Exit by 113	HVAC	Steam	0	0	0	1	0	0	0	0
District Office	311	HVAC	Steam	0	1	1	0	0	0	0	1
District Office	Exit by 311	HVAC	Steam	0	0	0	1	0	0	0	0
District Office	310	HVAC	Steam	0	1	1	0	0	0	0	0

Schedule 2

Building	Location	Equipment Type	Fuel / Energy Source	Unit Ventilator or (Pneumatic)	Unit Ventilator or (DDC)	Radiator Classroom / Office	Radiator Hall/Storage	Fan Coil	Convector	Unit Heater	Window AC
District Office	308	HVAC	Steam	0	1	1	0	0	0	0	0
District Office	309	HVAC	Steam	0	1	1	0	0	0	0	1
District Office	Hall by 309	HVAC	Steam	0	0	0	1	0	0	0	0
District Office	306	HVAC	Steam	0	1	1	0	0	0	0	1
District Office	306	HVAC	Steam	0	0	0	0	0	0	0	1
James Kaden Administrative Offices	304	HVAC	Steam	0	1	1	0	0	0	0	1
James Kaden Administrative Offices	302	HVAC	Steam	0	1	1	0	0	0	0	1
James Kaden Administrative Offices	303	HVAC	Steam	0	1	1	0	0	0	0	1
James Kaden Administrative Offices	301	HVAC	Steam	0	1	1	0	0	0	0	1
James Kaden Administrative Offices	301	HVAC	Steam	0	0	0	0	0	0	0	1
James Kaden Administrative Offices	303	HVAC	Steam	0	0	0	0	0	0	0	1
James Kaden Administrative Offices	OT/PT	HVAC	Steam	0	0	0	1	0	0	0	0
James Kaden Administrative Offices	OT/PT	HVAC	Steam	0	0	0	1	0	0	0	0
James Kaden Administrative Offices	OT/PT	HVAC	Steam	0	0	0	1	0	0	0	0
James Kaden Administrative Offices	OT/PT	HVAC	Steam	0	0	0	1	0	0	0	0
James Kaden Administrative Offices	Hall by OT/PT	HVAC	Steam	0	0	0	1	0	0	0	0
James Kaden Administrative Offices	Exit by 202	HVAC	Steam	0	0	0	1	0	0	0	0
James Kaden Administrative Offices	Hall by 202	HVAC	Steam	0	0	0	1	0	0	0	0

Schedule 2

Building	Location	Equipment Type	Fuel / Energy Source	Unit Ventilator or (Pneumatic)	Unit Ventilator or (DDC)	Radiator Classroom / Office	Radiator Hall/Storage	Fan Coil	Convect or	Unit Heater	Window AC
James Kaden Administrative Offices	202	HVAC	Steam	0	0	1	0	0	0	0	0
James Kaden Administrative Offices	Mens	HVAC	Steam	0	0	0	1	0	0	0	0
James Kaden Administrative Offices	Women's	HVAC	Steam	0	0	0	1	0	0	0	0
James Kaden Administrative Offices	200	HVAC	Steam	0	0	1	0	0	0	0	0
James Kaden Administrative Offices	Old Gym (Storage)	HVAC	Steam	0	0	0	1	0	0	0	0
James Kaden Administrative Offices	Old Gym (Storage)	HVAC	Steam	0	0	0	1	0	0	0	0
James Kaden Administrative Offices	Old Gym (Storage)	HVAC	Steam	0	0	0	1	0	0	0	0
James Kaden Administrative Offices	Old Gym (Storage)	HVAC	Steam	0	0	0	1	0	0	0	0
James Kaden Administrative Offices	Hall by 100	HVAC	Steam	0	0	0	1	0	0	0	0
James Kaden Administrative Offices	Hall by 100	HVAC	Steam	0	0	0	1	0	0	0	0
James Kaden Administrative Offices	100	HVAC	Steam	0	0	1	0	0	0	0	1
James Kaden Administrative Offices	100	HVAC	Steam	0	0	0	0	0	0	0	1
James Kaden Administrative Offices	100	HVAC	Steam	0	0	0	0	0	0	0	1
James Kaden Administrative Offices	100	HVAC	Steam	0	0	0	0	0	0	0	1
James Kaden Administrative Offices	Facilities	HVAC	Steam	0	1	1	0	0	0	0	1
James Kaden Administrative Offices	101	HVAC	Steam	0	1	1	0	0	0	0	1

Schedule 2

Building	Location	Equipment Type	Fuel / Energy Source	Unit Ventilator or (Pneumatic)	Unit Ventilator or (DDC)	Radiator Classroom / Office	Radiator Hall/Storage	Fan Coil	Convect or	Unit Heater	Window AC
James Kaden Administrative Offices	102	HVAC	Steam	0	1	1	0	0	0	0	1
James Kaden Administrative Offices	102	HVAC	Steam	0	0	0	0	0	0	0	1
James Kaden Administrative Offices	104	HVAC	Steam	0	1	1	0	0	0	0	1
James Kaden Administrative Offices	104	HVAC	Steam	0	0	0	0	0	0	0	1
James Kaden Administrative Offices	107	HVAC	Steam	0	1	1	0	0	0	0	1
James Kaden Administrative Offices	107	HVAC	Steam	0	0	0	0	0	0	0	1
James Kaden Administrative Offices	109	HVAC	Steam	0	1	1	0	0	0	0	1
James Kaden Administrative Offices	109	HVAC	Steam	0	0	0	0	0	0	0	1
James Kaden Administrative Offices	108	HVAC	Steam	0	1	1	0	0	0	0	1
James Kaden Administrative Offices	108	HVAC	Steam	0	0	0	0	0	0	0	1
James Kaden Administrative Offices	111	HVAC	Steam	0	1	1	0	0	0	0	1
James Kaden Administrative Offices	111	HVAC	Steam	0	0	0	0	0	0	0	1
James Kaden Administrative Offices	103	HVAC	Steam	0	0	1	0	0	0	0	1
James Kaden Administrative Offices	103	HVAC	Steam	0	1	1	0	0	0	0	1
James Kaden Administrative Offices	Hall by 108	HVAC	Steam	0	0	0	1	0	0	0	0
James Kaden Administrative Offices	Exit by 110	HVAC	Steam	0	0	0	1	0	0	0	0

Schedule 2

Building	Location	Equipment Type	Fuel / Energy Source	Unit Ventilator (Pneumatic)	Unit Ventilator (DDC)	Radiator Classroom / Office	Radiator Hall/Storage	Fan Coil	Convector	Unit Heater	Window AC
James Kaden Administrative Offices	110	HVAC	Steam	0	1	1	0	0	0	0	1
James Kaden Administrative Offices	110	HVAC	Steam	0	0	0	0	0	0	0	1

H&V Units:

Building	# of H&V Units
Birchwood Intermediate School	2
Countrywood Primary Center	2
James Kaden Administrative Offices	0
Maplewood Intermediate School	2
Memorial Junior High School	4
Oakwood Primary Center	5
Silas Wood Sixth Grade Center	0
Stimson Middle School	12
Walt Whitman High School	8
Total	35

Control Zones:

Building	# of Zones
Birchwood Intermediate School	4
Countrywood Primary Center	8
James Kaden Administrative Offices	7
Maplewood Intermediate School	4
Memorial Junior High	8
Oakwood Primary Center	4
Silas Wood Sixth Grade Center	2
Stimson Middle School	15
Walt Whitman High School South	8
Walt Whitman High School North	6
Total	66

Boilers:

Building	Location	Area-System Served	Fuel / Energy Source	Equipment Name	Manufacturer	Model Number	Serial Number	Heating Input
Birchwood Intermediate School	Boiler Room	Steam Heating	Gas/Oil	Boiler 1	Titusville Iron Works Co.	SOH 212-R7		Heating Surface 1250 sqft
Birchwood Intermediate School	Boiler Room	Steam Heating	Gas/Oil	Boiler 2	Titusville Iron Works Co.	SOH 212-R7		Heating Surface 1250 sqft
Birchwood Intermediate School	Boiler Room	Boiler 1	Gas/Oil	Burner 1	Iron Fireman	AGO-4-6.3	33500401AA86K	2100-6300 mbh, 15-45 gph
Birchwood Intermediate School	Boiler Room	Boiler 2	Gas/Oil	Burner 2	Iron Fireman	AGO-4-6.3		2100-6300 mbh, 15-45 gph
Maplewood Intermediate School	Boiler Room	Steam Heating	Gas/Oil	Boiler 1	Titusville Iron Works Co.	SOH 212-R7		Heating Surface 1250 sqft
Maplewood Intermediate School	Boiler Room	Steam Heating	Gas/Oil	Boiler 2	Titusville Iron Works Co.	SOH 212-R7		Heating Surface 1250 sqft
Maplewood Intermediate School	Boiler Room	Boiler 1	Gas/Oil	Burner 1	Iron Fireman	EED-GO-4-8.5	38524701A87D	1700-8500 mbh, 12-60 gph
Maplewood Intermediate School	Boiler Room	Boiler 2	Gas/Oil	Burner 2	Iron Fireman	EED-GO-4-8.5	33790301A92M	1700-8500 mbh, 12-60 gph
Oakwood Primary Center	Boiler Room	Steam Heating	Gas/Oil	Boiler 1	Titusville Iron Works Co.	SOH 212-R7		Heating Surface 1250 sqft
Oakwood Primary Center	Boiler Room	Steam Heating	Gas/Oil	Boiler 2	Titusville Iron Works Co.	SOH 212-R7		Heating Surface 1250 sqft
Oakwood Primary Center	Boiler Room	Boiler 1	Gas/Oil	Burner 1	Iron Fireman	EED-GO-4-8.5	33789701A92M	1700-8500 mbh, 12-60 gph
Oakwood Primary Center	Boiler Room	Boiler 2	Gas/Oil	Burner 2	Iron Fireman	EED-GO-4-8.5	33789701B92M	1700-8500 mbh, 12-60 gph

DHW:

Building	Location	Area-System Served	Fuel / Energy Source	Equipment Name	Manufacturer	Model Number	Serial Number	Capacity	Heating Input	Notes
Birchwood Intermediate School	Boiler Room	DHW Heating	Gas	DHW Heater	Lochinvar	CFN0650	J921091		650 mbh	670 gph recovery
Countrywood Primary Center	Boiler Room	DHW Heating	Gas	DHW Heater	AO Smith	BTC 500A 970	LM97-0697923-970	69 gal	500 mbh	454.5 gph recovery
Maplewood Intermediate School	Boiler Room	DHW Heating	Gas	DHW Heater	Lochinvar	CFN0650	J921089		650 mbh	670 gph recovery
Oakwood Primary Center	Boiler Room	DHW Heating	Gas	DHW Heater	Lochinvar	CFN0650	J921090		650 mbh	670 gph recovery
Silas Wood Sixth Grade Center	Boiler Room	DHW Heating	Gas	DHW Heater	Lochinvar	CFN0650			650 mbh	670 gph recovery

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Schedule 2

Building	Location	Area-System Served	Fuel / Energy Source	Equipment Name	Manufacturer	Model Number	Serial Number	Capacity	Heating Input	Notes
Stimson Middle School	Boiler Room	DHW Heating	Gas	DHW Heater	AO Smith	BTC 500A 960	LF97-060506-960	69 gal	500 mbh	454.5 gph recovery
Walt Whitman High School	Boiler Room North	DHW Heating	Gas	DHW Heater	AO Smith	BTC 500A 960	LF97-0660500-960	69 gal	500 mbh	454.5 gph recovery
Walt Whitman High School	Boiler Room South	DHW Heating	Gas	DHW Heater	AO Smith	BTC 500A 960	LF97-0660502-960	69 gal	500 mbh	454.5 gph recovery

Refrigeration:

Building	Location	Area-System Served	Equipment Type	Fuel / Energy Source	Equipment Name	Manufacturer	Model Number	Serial Number	Notes
Countrywood Primary Center	Roof	Walk-In Refrigeration Unit	Refrigeration Compressor	Electric	Refrigeration Compressor				
Countrywood Primary Center	Roof	Walk-In Refrigeration Unit	Refrigeration Compressor	Electric	Refrigeration Compressor	Russell			
Oakwood Primary Center	Roof	Walk-In Refrigeration Unit	Refrigeration Compressor	Electric	Refrigeration Compressor				
Oakwood Primary Center	Kitchen	Walk-In Refrigeration Unit	Refrigeration Compressor	Electric	Refrigeration Compressor	Copeland	KAG1-0075-TAC	67F 20531	Compressor: 2.75 RLA, Water Cooled, Replace
Silas Wood Sixth Grade Center	Kitchen	Walk-In Refrigeration Unit	Refrigeration Compressor	Electric	Refrigeration Compressor				
Stimson Middle School	Slop Sink Area (Kitchen)	Walk-In Refrigeration Unit	Refrigeration Compressor	Electric	Refrigeration Compressor				
Stimson Middle School	Slop Sink Area (Kitchen)	Walk-In Refrigeration Unit	Refrigeration Compressor	Electric	Refrigeration Compressor				
Walt Whitman High School	Kitchen North	Walk-In Refrigeration Unit	Refrigeration Compressor	Electric	Refrigeration Compressor				
Walt Whitman High School	Boiler Room South	Walk-In Refrigeration Unit	Refrigeration Compressor	Electric	Refrigeration Compressor	Norlake			Compressor: 7.14 RLA
Walt Whitman High School	Kitchen North	Walk-In Refrigeration Unit	Refrigeration Compressor	Electric	Refrigeration Compressor				
Walt Whitman High School	Boiler Room South	Walk-In Refrigeration Unit	Refrigeration Compressor	Electric	Refrigeration Compressor	Norlake			Compressor: 18.6 RLA

Rooftop Units:

Building	Location	Area-System Served	Equipment Type	Fuel / Energy Source	Manufacturer	Model Number	Serial Number	Heating Input	Heating Output	Notes
Countrywood Primary Center	Roof	Heating/Air Conditioning	Rooftop Unit	Electric/Gas	Carrier	48HCEA05D3A5A2F5F0	2911G10221	82-115 mbh	93 mbh	Compressor: 13.7 RLA
Countrywood Primary Center	Roof	Heating/Air Conditioning	Rooftop Unit	Electric/Gas	Carrier	48HCEA05D3A5A2F5F0	2911G10217	82-115 mbh	93 mbh	Compressor: 13.7 RLA
Countrywood Primary Center	Roof	Heating/Air Conditioning	Rooftop Unit	Electric/Gas	Carrier	48HCEA05D3A5A2F5F0	2911G10218	82-115 mbh	93 mbh	Compressor: 13.7 RLA
Countrywood Primary Center	Roof	Heating/Air Conditioning	Rooftop Unit	Electric/Gas	Carrier	48HCEA05D3A5A2F5F0	2911G10216	82-115 mbh	93 mbh	Compressor: 13.7 RLA
Oakwood Primary Center	Roof	Heating/Air Conditioning	Rooftop Unit	Electric/Gas	Carrier	48HCEA05D3A5A2F5F0		82-115 mbh	93 mbh	Compressor: 13.7 RLA
Oakwood Primary Center	Roof	Heating/Air Conditioning	Rooftop Unit	Electric/Gas	Carrier	48HCEA05D3A5A2F5F0		82-115 mbh	93 mbh	Compressor: 13.7 RLA
Oakwood Primary Center	Roof	Heating/Air Conditioning	Rooftop Unit	Electric/Gas	Carrier	48HCEA05D3A5A2F5F0		82-115 mbh	93 mbh	Compressor: 13.7 RLA
Oakwood Primary Center	Roof	Heating/Air Conditioning	Rooftop Unit	Electric/Gas	Carrier	48HCEA05D3A5A2F5F0		82-115 mbh	93 mbh	Compressor: 13.7 RLA
Henry L. Stimson Middle School	Roof	LGI	Rooftop Unit	Electric	Trane	TCD301C40ACA	724101215D			Compressors x2: 18.3 RLA ea.
Henry L. Stimson Middle School	Roof	Library	Rooftop Unit	Electric	Trane	TCD241C400CA	725101265D			Compressors x2: 16.1 RLA ea.
James Kaden Administrative Offices	Roof	Offices	Rooftop Unit	Electric	Carrier	50HJ008511AA	2194g30399			Compressor: 13.5 RLA
Walt Whitman HS	Roof		Rooftop Unit	Electric	Lennox	CHA163113P				Compressor: 14.7 RLA
Walt Whitman HS	Roof		Rooftop Unit	Electric	McQuay	ALP090CY12				Compressors x2: 13.5 RLA ea.
Walt Whitman HS	Roof		Rooftop Unit	Electric	Trane	THC060F3R0A11				Compressor: 15.9 RLA

Motors:

Building	Location	Area-System Served	Equipment Type	Fuel / Energy Source	Equipment Name	Manufacturer	Motor Manufacturer	HP	RPM
Henry L. Stimson Middle School	Boiler Room	Hot Water Heating	Hot Water Pump	Electric	P-1	Bell & Gossett	US Motors	7.5	1765
Henry L. Stimson Middle School	Boiler Room	Hot Water Heating	Hot Water Pump	Electric	P-2	Bell & Gossett	US Motors	7.5	1765
Maplewood Intermediate School	Boiler Room	Condensate Return	Vacuum Pump		Vacuum Pump	ODP		5	3480

Transformers:

Building	Location	Manufacturer	Model Number	Capacity	Notes
Henry L. Stimson Middle School	Electric Room	GE	9T45G0009G51	500 kVA	5.8% IMP
Henry L. Stimson Middle School	Closet Opposite 052	GE	9T83C9873G15	45 kVA	4.8% IMP
Henry L. Stimson Middle School	Closet Opposite 059	GE	9T83C9874G15	75 kVA	4.5% IMP
Henry L. Stimson Middle School	Closet Opposite 059	GE	9T83C9873G15	45 kVA	4.8% IMP
Henry L. Stimson Middle School	Closet Opposite 402	GE	9T83C9873G15	45 kVA	4.8% IMP
Henry L. Stimson Middle School	Closet Opposite 314	GE	9T83C9874G15	75 kVA	4.5% IMP
Henry L. Stimson Middle School	Closet Opposite 314	GE	9T83C9873G15	45 kVA	4.8% IMP
Henry L. Stimson Middle School	Closet By Gym	GE	9T83C9872G15	30 kVA	5.7% IMP
Henry L. Stimson Middle School	Wood Shop	GE	9T83C9874G15	75 kVA	4.5% IMP

Computers:

Building	Computers
Birchwood Intermediate School	162
Countrywood Primary Center	76
James Kaden Administrative Offices	39
Maplewood Intermediate School	192
Memorial Junior High	59
Oakwood Primary Center	125
Silas Wood Sixth Grade Center	52
Henry L. Stimson Middle School	171
Walt Whitman High School	342
Total	1218

EXHIBIT 8: Measurement & Verification Services

JCI will provide the M&V Services set forth below in connection with the Assured Performance Guarantee.

1. During the Installation Period, a JCI Performance Assurance Engineer will track Measured Project Benefits. JCI will report the Measured Project Benefits achieved during the Installation Period, to Customer within 60 days of the commencement of the Guarantee Term.
2. Within 60 days of each anniversary of the commencement of the Guarantee Term, JCI will provide Customer with an annual written report containing:
 - A. an executive overview of the project's performance and Project Benefits achieved to date;
 - B. a summary analysis of the Measured Project Benefits accounting; and
 - C. depending on the M&V Option, a detailed analysis of the Measured Project Benefits calculations.
3. During the Guarantee Term, a JCI Performance Assurance Engineer will monitor the on-going performance of the Improvement Measures, as specified in this Agreement, to determine whether anticipated Measured Project Benefits are being achieved. In this regard, the Performance Assurance Specialist will periodically assist Customer, on-site or remotely, with respect to the following activities:
 - A. review of information furnished by Customer from the facility management system to confirm that control strategies are in place and functioning;
 - B. advise Customer's designated personnel of any performance deficiencies based on such information;
 - C. coordinate with Customer's designated personnel to address any performance deficiencies that affect the realization of Measured Project Benefits; and
 - D. inform Customer of opportunities to further enhance project performance and of opportunities for the implementation of additional Improvement Measures.
4. For specified Improvement Measures and its applicable M&V Option, JCI will:
 - A. conduct pre and post installation measurements required under this Agreement;
 - B. confirm the building management system employs the control strategies and set points specified in this Agreement; and
 - C. analyze actual as-built information and adjust the Baseline and/or Measured Project Benefits to conform to actual installation conditions (e.g., final lighting and water benefits calculations will be determined from the as-built information to reflect the actual mix of retrofits encountered during installation).
 - D. confirm that the appropriate metering and data points required to track the variables associated with the applicable Improvement Measures' benefits calculation formulas are established; and
 - E. set up appropriate data capture systems (e.g., trend and totalization data on the facility management system) necessary to track and report Measured Project Benefits for the applicable Improvement Measure.
 - F. Trend data records maintained in the ordinary course of system operation shall be used and relied upon by Johnson Controls in connection with Project Benefit calculations. Johnson Controls will use commercially reasonable efforts to ensure the integrity of the data collected to calculate the required metrics. In the event data are lost due to equipment failure, power failure or other interruption in data collection, transmission or storage, Johnson Controls will immediately advise the Customer in writing and if agreed upon by the Customer, JCI shall use reasonable engineering methods to estimate or replace the lost data.

CUSTOMER RESPONSIBILITIES

In order for JCI to perform its obligations under this Agreement with respect to the Work, the Assured Performance Guarantee, and the M&V Services, Customer shall be responsible for:

1. Providing JCI, its subcontractors, and its agents reasonable and safe access to all facilities and properties that are subject to the Work and/or M&V Services;
2. Providing for shut down and scheduling of affected locations during installation, including timely shutdowns of chilled water, hot water, and steam systems as needed to accomplish the Work and/or M&V Services, provided said shut downs shall not interrupt Customer's daily operations;
3. Providing assistance to JCI in obtaining any permits, approvals, and licenses required under this Agreement [Note: JCI is responsible for obtaining all permits as per the terms of the Agreement that are JCI's responsibility to obtain as set forth in Schedule 1];
4. Properly maintaining, and performing appropriate preventative maintenance on, all equipment and building systems affecting the Assured Performance Guarantee in accordance with manufacturers' standards and specifications and training provided by JCI;
5. Providing the utility bills, reports, and similar information reasonably necessary for administering JCI's obligations under the Assured Performance Guarantee within fifteen (15) days of Customer receipt and/or generation or JCI's request therefor; and;
6. Providing all records relating to energy and/or water usage and related maintenance of the premises and relevant equipment requested by JCI.

PRICE AND PAYMENT TERMS

Customer shall make payments to JCI pursuant to this Schedule 4.

Total Project Costs. The total cost of the Project, including payment for JCI and the Architect of Record is \$14,888,858 and is broken down as follows:

Johnson Controls, Inc.:	\$14,455,202
H2M Architects and Engineers:	\$433,656

1. **Payments shall be made to JCI as follows:** within fifteen (15) days after execution of this Agreement, JCI shall submit for the Architect's review and approval a Schedule of Values for all of the Work to be performed under the Agreement. Such Schedule will (i) subdivide the Work into its respective parts; (ii) include values for all items comprising the Work; and (iii) serve as the basis for monthly progress payments made to JCI throughout the Work. The Work will commence upon approval of SED, the securing of the necessary financing by the Customer for the Work and the Customer's receipt of all necessary documents, including the final cash flow statement.

Customer shall make payment to JCI against monthly invoices for work completed and approved in accordance with the agreed upon Schedule of Values. Payments will be made on a progress payment basis for work completed and accepted by the Customer and the Architect using the AIA format. JCI must attach certified payrolls to each application for payment, together with supporting documents as required by the Customer and Architect. All communications related to payment for work performed shall be directed to the Customer. Under no circumstance, shall JCI contact the District's financial representatives or selected financial institutions.

2. **Payments for Architectural/Engineering Services:** JCI shall be responsible for making payments for Architectural/Engineering services directly to the Architect as set forth herein. The total fee to be paid to the Architect is \$433,656. JCI will make payments to the Architect according to the following schedule:
 - a. 25% upon District signing contract with ESCO;
 - b. 35% upon submittal of plans and specifications to NYSED;
 - c. 20% upon approval of plans and specifications by NYSED;
 - d. 20% upon completion of post construction services.
 - e. At the completion of post-construction services, the District shall withhold the amount of \$5,000 from the Engineer's final payment identified above. In accordance therewith, the District will direct the ESCO to deduct \$5,000 from the last invoice submitted by the Engineer. The Owner will further require the ESCO to issue payment for the remaining \$5,000 directly to the District. This amount shall be paid to the Engineer by the District upon completion of its evaluation of the actual energy savings realized at the conclusion of the first and second year of the ESCO guarantee period. The Engineer will receive two (2) annual payments of \$2,500 in connection with these services. Such payments shall be issued by the District within thirty (30) days of the District's receipt of H2M's evaluation report.

3. **M&V Services.** JCI shall provide M&V services for the project from the construction period through Year 5 and shall be at no cost to the District.

The District may request additional years of M&V services beyond Year 5 annually for years 6-18 at the annual rate set forth below. This schedule of costs is not included in the Total Project Cost of the energy performance contract set forth above.

Schedule 4

Year	M&V services
6	\$54,706
7	\$54,706
8	\$54,706
9	\$54,706
10	\$54,706
11	\$54,706
12	\$54,706
13	\$54,706
14	\$54,706
15	\$54,706
16	\$54,706
17	\$54,706
18	\$54,706

**Attachment 1
NOTICE TO PROCEED**

Johnson Controls, Inc.
6 Aerial Way
Syosset, NY

ATTN: Kieran Moran

Re: Notice to Proceed for SOUTH HUNTINGTON SCHOOL DISTRICT

Dear Mr. Haffel:

This Notice to Proceed is being issued by SOUTH HUNTINGTON SCHOOL DISTRICT ("Customer") to Johnson Controls, Inc. ("JCI") pursuant to that certain Performance Contract entered into between Customer and JCI for the purpose of notifying JCI to commence work under such contract. This Notice to Proceed shall not relieve JCI of its responsibility to perform any and all duties, tasks and/or obligations required by the Agreement, as may be amended in writing by the parties that may be required prior to commencement of the Work.

By signing and dating this Notice to Proceed, the parties hereto agree to these terms and represent and warrant they have the authority to execute this Notice to Proceed on behalf of their respective organizations.

SOUTH HUNTINGTON SCHOOL DISTRICT

Signature: _____

Printed Name: _____

Title: _____

Date: _____

ACKNOWLEDGED & AGREED TO:

JOHNSON CONTROLS, INC.

Signature: _____

Printed Name: _____

Title: _____

Date: _____

**CHANGE ORDER
AIA G701 Change Order Form to be used**

**CERTIFICATE OF SUBSTANTIAL COMPLETION
AIA G704 Form to be used**

CERTIFICATE OF FINAL COMPLETION

PARTIES: JOHNSON CONTROLS, INC. ("JCI")
6 AERIAL WAY
SYOSSET, NEW YORK 11791

SOUTH HUNTINGTON SCHOOL DISTRICT ("Customer")
60 WESTON STREET
HUNTINGTON STATION, NY 11746

PROJECT: SOUTH HUNTINGTON SCHOOL DISTRICT; Performance Contract dated _____, 20__
between JCI and Customer

By executing this Certificate of Final Completion, Customer acknowledges the following:

The work set forth in the Performance Contract has been reviewed and determined by Customer to be fully complete.

The Work performed under this performance contract has been reviewed and found to be complete. The date of final completion of the Project designated above is hereby established as _____. In accordance with the Agreement documents, based upon on-site observations and all data submitted in connection with the Project, the Architect certifies to Customer that to the best of the Architect's knowledge, information and belief, the Work has progressed as indicated, the quality of the Work is in accordance with the Agreement documents, and JCI is entitled to payment in accordance with the Agreement documents.

Amount Certified: _____

H2M Architects and Engineers.

By: _____ Date: _____

Printed Name: _____

Dated: _____, 20__ .

SOUTH HUNTINGTON SCHOOL DISTRICT

JOHNSON CONTROLS, INC.

Signature: _____

Signature: _____

Printed Name: _____

Printed Name: _____

Title: _____

Title: _____

Lighting Survey line-by-line "South Huntington Schools 4-2-2020"

Customer's Request for Proposals ("RFP")

Contract between Customer and H2M

Detailed Energy Audit

Customer's AHERA Reports

Pro Forma Cash Flow

Scope of Architectural Services

**Scope of Construction Services &
General Conditions**