REQUEST FOR PROPOSALS FOR

Mechanical/Electrical Maintenance Services
at
Central Administration Building (CAB)
TransCore Building (located on CAB site)
Turnpike Industrial Park (TIP) Building
TIP Maintenance Building (located on TIP site)
Steelton Warehouse
East Park Drive (EPD) E-ZPass Service Center

ISSUING OFFICE

Pennsylvania Turnpike Commission

Facilities and Energy Management Operations

RFP NUMBER

RFP 17-40130-8758

DATE OF ISSUANCE

October 12, 2017

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at
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300 East Park Drive (EPD)

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PART I

GENERAL INFORMATION FOR PROPOSERS

I-1. Purpose. This request for proposals (RFP) provides interested Proposers with sufficient information to enable them to prepare and submit proposals for consideration by the Pennsylvania Turnpike Commission (Commission) to satisfy a need for Mechanical/Electrical Maintenance Services.

I-2. Issuing Office. This RFP is issued for the Commission by the Contracts Administration Department on behalf of the Facilities and Energy Management Operations Department.

I-3. Scope. This RFP contains instructions governing the proposals to be submitted and the material to be included therein; a description of the service to be provided; requirements which must be met to be eligible for consideration; general evaluation criteria; and other requirements to be met by each proposal.

I-4. Problem Statement. The Pennsylvania Turnpike Commission is seeking a firm to provide maintenance of mechanical, electrical, fire alarm, fire protection, automatic temperature control and building automation systems for tis Central Administration Building, TransCore Building, Turnpike Industrial Park Building, TIP Maintenance Building, Steelton Warehouse and 300 East Park Drive Building. The Commission desires to engage a firm for a multiple year agreement to perform the maintenance services outline in this Request for Proposal (RFP).

I-5. Type of Contract. It is proposed that if a contract is entered into as a result of this RFP, it will be a fixed fee contract. The Commission may in its sole discretion undertake negotiations with Proposers whose proposals as to price and other factors show them to be qualified, responsible, responsive and capable of performing the work. A sample Contractual Agreement is provided in Appendix A.

I-6. Contractor Integrity Provisions. Contractor Integrity Provisions will apply to this contract upon award and the awarded vendor may be required to complete a Background Qualifications Questionnaire prior to entering into an Agreement with the Commission and attend annual ethics training provided by the Commission. Proposers can find these two documents on the Commissions website at www.paturnpike.com (Doing Business, General Information, Integrity Provisions).

Include full disclosure of any potential conflict with the State Adverse Interest of State Advisor or Consultant Statute by the prime or any subconsultant. If there is no adverse interest you shall include the following statement: "I have reviewed the State Adverse Interest Statute and determined that there is no adverse interest for anyone on this Agreement team." This information should be included in your transmittal letter/cover page or executive summary.

I-7. Rejection of Proposals. The Commission reserves the right to reject any and all proposals received as a result of this request, or to negotiate separately with competing Proposers.

I-8. Subcontracting. Any use of subcontractors by a Proposer must be identified in the proposal. During the contract period use of any subcontractors by the selected Proposer, which were not previously identified in the proposal, must be approved in advance in writing by the Commission.

I-9. Incurring Costs. The Commission is not liable for any costs the Proposer incurs in preparation and submission of its proposal, in participating in the RFP process or in anticipation of award of contract.

I.10. Questions and Answers. There will be no pre-proposal conference for this RFP. Written questions may be submitted to clarify any points in the RFP which may not have been clearly understood.

Written questions should be submitted by email to RFP-Q@paturnpike.com with **RFP 17-40130-8758** in the Subject Line to be received no later than **2:00 PM** local time on **Wednesday, October 25, 2017.** Proposers shall use the form provided in **Appendix B** to submit the questions. All questions and written answers will be posted to the website as an addendum to and become part of this RFP.

I-11. Addenda to the RFP. If it becomes necessary to revise any part of this RFP before the proposal response date, addenda will be posted to the Commission's website under the original RFP document. It is the responsibility of the Proposer to periodically check the website for any new information or addenda to the RFP.

The Commission may revise a published advertisement. If the Commission revises a published advertisement less than ten days before the RFP due date, the due date will be extended to maintain the minimum ten-day advertisement duration if the revision alters the project scope or selection criteria. Firms are responsible to monitor advertisements/addenda to ensure the submitted proposal complies with any changes in the published advertisement.

I-12. Response. To be considered, proposals must be delivered to the Pennsylvania Turnpike Commission's Contracts Administration Department, Attention: Stephanie Newbury, on or before **2:00 PM** local time on **Tuesday, November 14, 2017** The Commission will **not** accept proposals via email or facsimile transmission. The Pennsylvania Turnpike Commission is located at 700 South Eisenhower Boulevard, Middletown, PA 17057 (Street address). Our mailing Address is P. O. Box 67676, Harrisburg, PA 17106.

Please note that use of U.S. Mail, FedEx, UPS, or other delivery method, does not guarantee delivery to the Contracts Administration Department by the above listed time for submission. Proposers mailing proposals should allow sufficient delivery time to ensure timely receipt of their proposals. If the Commission office location to which proposals are to be delivered is closed on the proposal response date, due to inclement weather, natural disaster, or any other cause, the deadline for submission shall be automatically extended until the next Commission business day on which the office is open. Unless the Proposers are otherwise notified by the Commission, the time for submission of proposals shall remain the same.

I-13. Proposals. To be considered, Proposers should submit a complete response to this RFP, using the format provided in PART II. Each proposal should be submitted in four (4) hard copies of the Technical Submittal, four (4) hard copies of the Diverse Business (DB) participation submittal, and four (4) hard copies of the Cost Submittal. In addition to the hard copies of the proposal, two **complete and exact copies** of the Technical, Cost and DB submittals, along with all requested documents on CD-ROM or Flash Drive in Microsoft Office or Microsoft Office-compatible format. The electronic copy must be a mirror image of the hard copy. Proposer should ensure that there is no costing information in the technical submittal. The CD or Flash drive should clearly identify the Proposer and include the name and version number of the virus scanning software that was used to scan the CD or Flash drive before it was submitted. The Proposer shall present the proposal to the Contracts Administration Department only. No other distribution of proposals will be made by the Proposer. Each proposal page should be numbered for ease of reference.

An official authorized to bind the Proposer to its provisions must sign the proposal. If the official signs the Proposal Cover Sheet (Appendix C to this RFP) and the Proposal Cover Sheet is attached to the proposal, the requirement will be met. For this RFP, the proposal must remain valid for at least 120 days. Moreover, the contents of the proposal of the selected Proposer will become contractual obligations if a contract is entered into.

Each and every Proposer submitting a proposal specifically waives any right to withdraw or modify it, except as hereinafter provided. Proposals may be withdrawn by written or fax notice (fax number (717) 986-8714) received at the Commission's address for proposal delivery prior to the exact hour and date specified for proposal receipt.

Overnight Delivery Address:
Contracts Administration Department
Attn: Stephanie Newbury
PA Turnpike Commission
700 South Eisenhower Blvd.
Middletown, PA 17057

US Mail Delivery Address:
Contracts Administration Department
Attn: Stephanie Newbury
PA Turnpike Commission
P.O. Box 67676
Harrisburg, PA 17106

However, if the Proposer chooses to attempt to provide such written notice by fax transmission, the Commission shall not be responsible or liable for errors in fax transmission. A proposal may also be withdrawn in person by a Proposer or its authorized representative, provided his/her identity is made known and he/she signs a receipt for the proposal, but only if the withdrawal is made prior to the exact hour and date set for proposal receipt. A proposal may only be modified by the submission of a new sealed proposal or submission of a sealed modification which complies with the requirements of this solicitation.

I-14. Economy of Preparation. Proposals should be prepared simply and economically, providing a straightforward, concise description of the Proposer's ability to meet the requirements of the RFP.

I-15. Discussions for Clarification. Proposers who submit proposals may be required to make an oral or written clarification of their proposals to the Issuing Office through the Contract Administration Department to ensure thorough mutual understanding and Proposer responsiveness to the solicitation requirements. The Issuing Office through the Contract Administration Department will initiate requests for clarification.

I-16. Best and Final Offers. The Issuing Office reserves the right to conduct discussions with Proposers for the purpose of obtaining "best and final offers." To obtain best and final offers from Proposers, the Issuing Office may do one or more of the following: a) enter into pre-selection negotiations; b) schedule oral presentations; and c) request revised proposals. The Issuing Office will limit any discussions to responsible Proposers whose proposals the Issuing Office has determined to be reasonably susceptible of being selected for award.

I-17. Prime Proposer Responsibilities. The selected Proposer will be required to assume responsibility for all services offered in its proposal whether or not it produces them. Further, the Commission will consider the selected Proposer to be the sole point of contact with regard to contractual matters.

I-18. Proposal Contents. Proposals will be held in confidence and will not be revealed or discussed with competitors, unless disclosure is required to be made (i) under the provisions of any Commonwealth or United States statute or regulation; or (ii) by rule or order of any court of competent jurisdiction. All material submitted with the proposal becomes the property of the Pennsylvania Turnpike Commission and may be returned only at the Commission's option. Proposals submitted to the Commission may be reviewed and evaluated by any person other than competing Proposers at the discretion of the Commission. The Commission has the right to use any or all ideas presented in any proposal. Selection or rejection of the proposal does not affect this right.

In accordance with the Pennsylvania Right-to-Know Law (RTKL), 65 P.S. § 67.707 (Production of Certain Records), Proposers shall identify any and all portions of their Proposal that contains confidential proprietary information or is protected by a trade secret. Proposals shall include a written statement signed by a representative of the company/firm identifying the specific portion(s) of the Proposal that contains the trade secret or confidential proprietary information.

Proposers should note that "trade secrets" and "confidential proprietary information" are exempt from access under Section 708(b)(11) of the RTKL. Section 102 defines both "trade secrets" and "confidential proprietary information" as follows:

Confidential proprietary information: Commercial or financial information received by an agency: (1) which is privileged or confidential; **and** (2) the disclosure of which would cause substantial harm to the competitive position of the person that submitted the information.

Trade secret: Information, including a formula, drawing, pattern, compilation, including a customer list, program, device, method, technique or process that: (1) derives independent economic value, actual or potential, from not being generally known to and not being readily ascertainable by proper means by other persons who can obtain economic value from its disclosure or use; **and** (2) is the subject of efforts that are reasonable under the circumstances to maintain its secrecy. The term includes data processing software by an agency under a licensing agreement prohibiting disclosure.

65 P.S. §67.102 (emphasis added).

The Office of Open Records has determined that a third party must establish a trade secret based upon factors established by the appellate courts, which include the following:

the extent to which the information is known outside of his business;
the extent to which the information is known by employees and others in the business;
the extent of measures taken to guard the secrecy of the information;
the value of the information to his business and to competitors;
the amount of effort or money expended in developing the information; and
the ease of difficulty with which the information could be properly acquired or duplicated by others.

See Crum v. Bridgestone/Firestone North Amer. Tire., 907 A.2d 578, 585 (Pa. Super. 2006).

The Office of Open Records also notes that with regard to "confidential proprietary information the standard is equally high and may only be established when the party asserting protection shows that the information at issue is either 'commercial' or 'financial' and is privileged or confidential, and the disclosure ***would*** cause substantial competitive harm." (emphasis in original).

For more information regarding the RTKL, visit the Office of Open Records' website at www.openrecords.state.pa.us.

I-19. Debriefing Conferences. Proposers whose proposals are not selected will be notified of the name of the selected Proposer and given the opportunity to be debriefed, at the Proposer's request. The Issuing Office will schedule the time and location of the debriefing. The Proposer will not be compared with other Proposers.

I-20. News Releases. News releases pertaining to this project will not be made without prior Commission approval, and then only in coordination with the Issuing Office.

I-21. Commission Participation. Unless specifically noted in this section, Proposers must provide all services to complete the identified work.

I-22. Cost Submittal. The cost submittal shall be placed in a separately sealed envelope within the sealed proposal and kept separate from the technical submittal.

I-23. Term of Contract. The term of the contract will commence on the Effective Date (as defined below) and will end in two (2) years with two (2) additional two-year renewal options. The Commission shall fix the Effective Date after the contract has been fully executed by the Contractor and by the Commission and all approvals required by Commission contracting procedures have been obtained.

I-24. Proposer's Representations and Authorizations. Each Proposer by submitting its proposal understands, represents, and acknowledges that:

a. All information provided by, and representations made by, the Proposer in the proposal are material and important and will be relied upon by the Issuing Office in awarding the contract(s). Any misstatement, omission or misrepresentation shall be treated as fraudulent concealment from the Issuing Office of the true facts relating to the submission of this proposal. A misrepresentation shall be punishable under 18 Pa. C.S. 4904.

b. The price(s) and amount of this proposal have been arrived at independently and without consultation, communication or agreement with any other Proposer or potential Proposer.

c. Neither the price(s) nor the amount of the proposal, and neither the approximate price(s) nor the approximate amount of this proposal, have been disclosed to any other firm or person who is a Proposer or potential Proposer, and they will not be disclosed on or before the proposal submission deadline specified in the response section of this RFP.

d. No attempt has been made or will be made to induce any firm or person to refrain from submitting a proposal on this contract, or to submit a proposal higher than this proposal, or to submit any intentionally high or noncompetitive proposal or other form of complementary proposal.

e. The proposal is made in good faith and not pursuant to any agreement or discussion with, or inducement from, any firm or person to submit a complementary or other noncompetitive proposal.

f. To the best knowledge of the person signing the proposal for the Proposer, the Proposer, its affiliates, subsidiaries, officers, directors, and employees are not currently under investigation by any governmental agency and have not in the last four (4) years been convicted or found liable for any act prohibited by State or Federal law in any jurisdiction, involving conspiracy or collusion with respect to bidding or proposing on any public contract, except as disclosed by the Proposer in its proposal.

g. To the best of the knowledge of the person signing the proposal for the Proposer and except as otherwise disclosed by the Proposer in its proposal, the Proposer has no outstanding, delinquent obligations to the Commonwealth including, but not limited to, any state tax liability not being contested on appeal or other obligation of the Proposer that is owed to the Commonwealth.

h. The Proposer is not currently under suspension or debarment by the Commonwealth, or any other state, or the federal government, and if the Proposer cannot certify, then it shall submit along with the proposal a written explanation of why such certification cannot be made.

i. The Proposer has not, under separate contract with the Issuing Office, made any recommendations to the Issuing Office concerning the need for the services described in the proposal or the specifications for the services described in the proposal.

j. Each Proposer, by submitting its proposal, authorizes all Commonwealth agencies to release to the Commission information related to liabilities to the Commonwealth including, but not limited to, taxes, unemployment compensation, and workers' compensation liabilities.

I-25. Indemnification. The Proposer shall be responsible for, and shall indemnify, defend, and hold harmless the Commission and its Commissioners, officers, employees, and agents from any claim, liability, damages, losses, causes of action, and expenses, including reasonable attorneys' fees, arising from damage to life or bodily injury or real or tangible personal property caused by the negligence or other tortious acts, errors, and omissions of Proposer, its employees, or its subcontractors while engaged in performing the work of the Agreement or while present on the Commission's premises, and for breach of the Agreement regarding the use or nondisclosure of proprietary and confidential information where it is determined that Proposer is responsible for any use of such information not permitted by the Agreement. The indemnification obligation shall not be limited in any way by any limitation on the amount or type of damages, compensation or benefits payable by or for Contractor or its subcontractors under Workers' Compensation Acts, Disability Benefits Acts, or other Employee Benefit Act.

I-26. Insurance. Proposer will comply with the Insurance requirements as described in Appendix D - Insurance Specification.

I-27. Diverse Business (DB) Requirements. Proposer will comply with the DB Requirements as described in Appendix E – Diverse Business (DB) Requirements.

PART II

INFORMATION REQUIRED FROM PROPOSERS

Proposals must be submitted in the format, including heading descriptions, outlined below. To be considered, the proposal must respond to all requirements in this part of the RFP. Any other information thought to be relevant, but not applicable to the enumerated categories, should be provided as an appendix to the proposal. All cost data relating to this proposal and all Diverse Business cost data should be kept separate from and not included in the Technical Submittal. Each proposal shall consist of three separately sealed submittals:

1. Technical Submittal, which shall be a response to RFP **Part II, Sections II-1 A through G**;

2. Diverse Business Participation Submittal, in response to RFP **Part II, Section II-2**; and

3. Cost Submittal, in response to RFP **Part II, Section II-3**.

The Commission reserves the right to request additional information which, in the Commission's opinion, is necessary to assure that the Proposer's competence, number of qualified employees, business organization, and financial resources are adequate to perform according to the RFP.

The Commission may make such investigations as deemed necessary to determine the ability of the Proposer to perform the work, and the Proposer shall furnish to the Issuing Office all such information and data for this purpose as requested by the Commission. The Commission reserves the right to reject any proposal if the evidence submitted by, or investigation of, such Proposer fails to satisfy the Commission that such Proposer is properly qualified to carry out the obligations of the agreement and to complete the work specified.

II-1 Technical Submittal.

A. Proposal Cover Sheet **(See Appendix C)**

Show the name of your firm, Federal I.D. number, address, name of contact person, contact person's email and telephone number date and the subject: **Mechanical/Electrical Maintenance Services at Central Administration Building (CAB), TransCore Building (located on CAB site), Turnpike Industrial Park (TIP) Building, TIP Maintenance Building (located on TIP site), Steelton Warehouse, 300 East Park Drive (EPD), RFP 17-40130-8758.** Appendix C must be signed by an individual who is authorized to negotiate terms, render binding decisions and commit your firm's resources**.** In addition, it is required that all information requested in Appendix C be provided including information pertaining to location of office performing the work, contact information, listing of all Pennsylvania offices and total number of Pennsylvania employees, and location of company headquarters.

B. Table of Contents
Include a clear identification of the material by section and by page number.

C. Executive Summary
Summarize your understanding of the work to be done and make a positive commitment to perform the work necessary. This section should summarize the key points of your submittal. (Limit to two pages.) Include in this section or in a transmittal letter/cover page a statement

regarding full disclosure of any potential conflict with the State Adverse Interest of State Advisor or Consultant Statute as instructed in Proposal Section 1.6 Contractor Integrity Provisions.

D. Firm Overview

Provide a brief history and description of your firm's business organization and its mechanical/electrical maintenance service expertise and experience as it relates to the requirements discussed in Part IV of this RFP. Include the location of offices and the number and types of HVAC Technicians, Fire Alarm Technicians, Plumbers/ Pipefitters, Sheet metal workers, Building Automation System Specialists and consultants or other relevant professional staff in each office. Discuss your firm's presence in and commitment to the Commonwealth of Pennsylvania. Include a discussion of the specific expertise and services that distinguish your firm.

E. Personnel

Include the number and names where practicable of executive, professional, and technical personnel who will be engaged in the work. Show where these personnel will be physically located during the time they are engaged in the work. Include through a resume or similar document education and/or experience in mechanical and electrical maintenance. Indicate the responsibilities each will have in this project and how long each has been with your company.

Describe your organization and how it is structured. Organization charts are helpful supplements to your explanations. Detail in a similar chart the proposed staffing and functions (Individual Name, Job Title, Function/Role, Certifications and Training Completed)

F. Relevant Experience and Expertise

Provide a narrative statement regarding your mechanical/electrical maintenance services expertise and experience as it relates to Part IV of this RFP. Additionally, include a statement regarding your understanding of the requirements as outlined in this RFP and your ability to provide mechanical/electrical maintenance services in accordance with the same.

Describe your firm's experience in providing similar mechanical/electrical maintenance services to other clients, especially other governmental entities and/or similar public/private sector transportation organizations. Describe the business practices that enable you to complete these tasks in an efficient, timely and, at times, expeditious manner.

Provide a list of three references of clients for which your firm has performed similar work, as described in this RFP, within the past three years.

Include a statement regarding any other specialized mechanical/electrical maintenance services your firm may offer.

G. Approach

Provide a description of the proposed approach/methodology that you will follow, along with a project plan and realistic timeline that identifies the phases and tasks required to complete the services defined in Part IV. Include in this section the deliverables and reports that will be provided, the project controls that will be used, and the tasks that will be performed.

Provide a description of all of the deliverables that you will provide as an output of the project plan.

Provide relevant samples of deliverables and project plans from similar services that your firm was primarily responsible for producing.

II-2 Diverse Business (DB) Requirements (Appendix E).

The Commission's Diverse Business (DB) Requirements for this procurement and a resulting contract are identified in Appendix E. There is no minimum participation level (MPL) for DBs established for this contract. However, the utilization of DBs are encouraged and will be considered as a criteria in the evaluation of proposals and may be considered as a factor in the Commission's selection of a firm for this contract.

The proposer must include in its DB participation submittal that it meets the requirements set forth in the Commission's DB Requirements - Appendix E. In particular, the proposer shall address the section of the DB Requirements labeled, "Actions Required by Proposer during the procurement/consultant selection phase". In addition, the DB participation submittal shall indicate the amount of DB participation incurred in the proposal in terms of dollars committed or percentage of total contract amount.

II-3 Cost Submittal (Appendix F).

The information requested in this section shall constitute your cost submittal. **THE COST SUBMITTAL SHALL BE PLACED IN A SEPARATE SEALED ENVELOPE WITHIN THE SEALED PROPOSAL AND ON A CD-ROM, SEPARATE FROM THE TECHNICAL SUBMITTAL.**

Proposers should **not** include any assumptions in their cost submittals. If the proposer includes assumptions in its cost submittal, the Issuing Office may reject the proposal. Proposers should direct in writing to the Issuing Office pursuant to Part I-10, Questions and Answers of this RFP any questions about whether a cost or other component is included or applies. All Proposers will then have the benefit of the Issuing Office's written answer so that all proposals are submitted on the same basis.

Costs shall include all of the maintenance and service requirements as described in this RFP. Provide costs by building as identified Appendix F by completing Tables 1, 2, and 3. All one-time and recurring costs and any underlying assumptions on the part of the Proposer must be included in the costs. All costs shown shall be inclusive of all labor, materials, overhead, and profit and shall not be subject to any additional costs, extras, or escalator clauses. Submit price data as described in this Section. Provide pricing on an annual basis assuming a fixed annual price for the first two (2) year term and include in Appendix F, Pricing Table 1.

Provide pricing for a first contract renewal annual cost for an additional two (2) year term and include in Appendix F Pricing Table 2. This renewal will cover years three (3) and four (4) of the Contract. The decision to renew the contract will be at the sole discretion of the Commission.

Provide pricing for a second contract renewal annual cost for an additional two (2) year term and include in Appendix F Pricing Table 3. This renewal will cover years five (5) and six (6) of the Contract. The decision to renew the contract will be at the sole discretion of the Commission.

Provide pricing for labor rates by trade and document the Proposer's acceptance of the PTC required mark ups for materials, equipment and subcontracted work for changes in service, if outside the contracted scope. This pricing will also be utilized for equipment repair and/or replacement work as defined in Section IV-4a. Include all required unit pricing and acknowledgments in Appendix F Pricing Tables 4A, 4B, and 4C.

All costs associated with the preventive maintenance and operation, and monitoring and on call services shall be included in the service costs included in the proposal. Any costs not provided in the cost proposal will be assumed as no charge to the Commission.

The selected Proposer shall only perform work on the Contract after the Effective Date is affixed and the fully-executed contract sent to the selected Proposer. The Commission shall issue a written Notice to Proceed to the selected Proposer authorizing the work to begin on a date which is on or after the Effective Date. The selected Proposer shall not start the performance of any work prior to the date set forth in the Notice of Proceed and the Commission shall not be liable to pay the selected Proposer for any service or work performed or expenses incurred before the date set forth in the Notice to Proceed. No Commission employee has the authority to verbally direct the commencement of any work under the Contract.

PART III

CRITERIA FOR SELECTION

III-1. Mandatory Responsiveness Requirements. To be eligible for selection, a proposal shall be (a) timely received from a Proposer; and (b) properly signed by the Proposer.

III-2. Technical Nonconforming Proposals. The two (2) Mandatory Responsiveness Requirements set forth in Section III-1 above (a&b) are the only RFP requirements that the Commission will consider to be non-waivable. The Issuing Office reserves the right, in its sole discretion, to (1) waive any other technical or immaterial nonconformities in the proposal, (2) allow the Proposer to cure the nonconformity, or (3) consider the nonconformity in the evaluation of the proposal.

III-3. Proposal Evaluation. Proposals will be reviewed, evaluated, and rated by a Technical Evaluation Team (TET) of qualified personnel based on the evaluation criteria listed below. The TET will present the evaluations to the Professional Services Procurement Committee (PSPC). The PSPC will review the TET's evaluation and provide the Commission with the firm(s) determined to be highly recommended for this assignment.

The Commission will select the most highly qualified firm for the assignment or the firm whose proposal is determined to be most advantageous to the Commission by considering the TET's evaluation and the PSPC's determination as to each firm's rating. In making the PSPC's determination and the Commission's decision, additional selection factors may be considered taking into account the estimated value, scope, complexity and professional nature of the services to be rendered and any other relevant circumstances. Additional selection factors may include, when applicable, the following: geographic location and proximity of the firm, firm's Pennsylvania presence or utilization of Pennsylvania employees for the assignment; equitable distribution of work; diversity inclusion; and any other relevant factors as determined as appropriate by the Commission.

Award will only be made to a Proposer determined to be responsive and responsible in accordance with Commonwealth Management Directive 215.9, Contractor Responsibility Program.

III-4. Evaluation Criteria. The following criteria will be used, in order of relative importance from the highest to the lowest, in evaluating each proposal:

1. Proposer and Personnel Qualifications and Experience
    a. Proposer's relevant experience and expertise in conducting mechanical/electrical maintenance as it relates to the requirements discussed in Part IV of this RFP.
    b. Qualifications, experience and competency of professional personnel who will be assigned to the contract by the Proposer including tenure with firm, length of time in the industry and type of experience.
    c. Financial ability of the Proposer to undertake a project of this size.
    d. Response of references if the Commission elects to solicit them.

2. Approach
    a. Understanding of the Commission's needs and scope of work.
    b. Soundness of proposed approach, methodology, and deliverables for conducting mechanical/electrical maintenance as it relates to the requirements discussed in Part IV of this RFP.
    c. Quality, completeness and applicability of sample deliverables provided.
    d. Responsiveness, organization, and clarity of Proposal.

3. Cost.
   While this area may be weighted heavily, it will not normally be the deciding factor in the selection process. The Commission reserves the right to select a proposal based upon all the factors listed above, and will not necessarily choose the firm offering the best price. The Commission will select the firm with the proposal that best meets its needs, at the sole discretion of the Commission.

4. Commitment to Diversity and Inclusion. This refers to the inclusion of DB firms, as described in Part II-2. Participation may be measured in terms of total dollars committed or percentage of total contract amount to certified DB firms.

PART IV

WORK STATEMENT

IV-1. Objectives.

a. General. The Pennsylvania Turnpike Commission is seeking a firm to provide maintenance of mechanical, electrical, fire alarm, fire protection, automatic temperature control, and building automation systems for its Central Administration Building, TransCore Building, Turnpike Industrial Park Building, TIP Maintenance building, Steelton Warehouse and the East Park Drive E-ZPass Service Center. The contractor recognizes that the reliability of the facilities is imperative to the Commission's operation and therefore possesses the skills required to support the needs of the facilities. The Contractor will provide critical support and maintenance at these facilities to support a 24 hour, 7 days a week operational requirement.

IV-2. Nature and Scope of the Project.

a. Building Descriptions.

The **Central Administration Building (CAB)** serves as the central office for the administration of the Commission. The building includes open office spaces, individual office spaces, and specialized areas for dining, document reproduction and training. The building is a four-story structure that includes 162,000 SF. It is located at 700 S. Eisenhower Blvd in Middletown.

The **TransCore Building** serves as the central office for the contractor who maintains the toll equipment, radio/cell towers, and communication equipment for the Commission. The building is a one-story structure that includes 1,750 SF. The building includes office spaces and areas for equipment storage and repair. It is located on the east side of the CAB in the lower parking lot.

The **Turnpike Industrial Park (TIP) Building** serves as the main data center and the Communications Center for the Commission. The building includes open office spaces, individual office spaces, and specialized areas for the data center and building systems. The building is a one-story structure that includes 104,000 SF. The building underwent a large-scale renovation project, which was completed in November 2010, to convert the building to a tier-3 data center. It is located at 2850 Turnpike Industrial Drive in Middletown.

The **TIP Maintenance Building** serves as a maintenance garage and repair shop for the TIP Building. The building is a one-story structure that includes 1,500 SF. It is located on the west side of the TIP Building.

The **Steelton Warehouse** serves as a general storage building for the Commission. The building is a one-story structure that includes 14,700 SF. It is located at 2715 S. Front Street in Steelton.

The **East Park Drive E-ZPass Service Center** serves as housing for TransCore (Turnpike Vendor). The Commission owns the 85,000 SF facility while TransCore resides in the newly remodeled half of that facility. Anyone working in the space must be compliant with any and all Payment Cord Industry (PCI) regulations. It is located at 300 East Park Drive in Harrisburg.

b. Building Systems Descriptions.

The systems and equipment covered by this service contract include generally the HVAC System, Electrical System (power and control only), Automatic Temperature Control Systems (ATC), Building Automation Systems (BAS), Fire Alarm Systems, Fire Protection Systems, and the following identified sub-systems of the Plumbing System; the Domestic Hot Water System, the sewage ejector pumping system, the back-flow prevention systems and the water treatment purification systems. The following electrical/mechanical components or systems will not be included in the awarded Agreement: multimedia, telephone, data, security, elevators, plumbing fixtures, HVAC/plumbing filter replacements, and lighting fixtures. It is intended that the complete HVAC, electrical, automatic temperature controls, building automation systems, fire alarm, fire protection systems and the identified plumbing sub-systems will be covered in their entirety under the awarded service Agreement with the above identified exceptions. To assist the Proposer in preparing the proposals most of the major pieces of equipment that are part of these systems are included as Appendix G (Preventative Maintenance (PM) Equipment Inventory). The equipment inventory is not intended to include all valves, piping, components and accessories but is instead intended to identify the major pieces of equipment included within the systems covered under the awarded Agreement. It is the responsibility of the Proposer to review the PM Equipment Inventory prior to submitting the proposal to the Commission. Any discrepancies between the major equipment quantities shown on the two documents should be submitted pursuant to section **I.10. Questions and Answers**.

IV-3. Requirements.

a. Implementation. The successful Proposer will have to complete implementation and be operational upon final execution of the Agreement. As part of your proposal, provide a statement indicating your commitment to meet this requirement. Describe your proposed implementation plan and identify any critical milestones.

b. Contract Manager. The Proposer shall designate a Contract Manager who shall be the Proposer's agent and primary contact for the Commission for all services under the Agreement, who shall have the authority to act on behalf of and bind the Proposer, and who shall be responsible for managing the buildings' mechanical, electrical, fire alarm, fire protection, automatic temperature control, and building automation systems, unless changed in writing by the Commission. The Contract Manager must be accessible at all times via cell phone, pager, email, or answering service. When the Contract Manager is not available, the Proposer shall have available one of two designated Acting Contract Manager(s) who shall assume the duties of the Contract Manager so that the maintenance and operation of the premises is supervised by the Proposer. Individuals designated as Acting Manager will be subject to approval of the Commission. The Contract Manager shall report primarily to the Commission – Central Campus Maintenance and Repair Manager. The Proposer shall not replace the person designated as the Contract Manager with any other person without the Commission's prior written approval. The Proposer shall furnish the resume of their proposed Contract Manager and Acting Contract Manager(s). All costs associated the designation of a contract manager shall be included in its entirety within the service costs included in the proposal.

c. Contractor Management and Support Staff. The Proposer shall furnish complete management, operational, and support staff personnel from the Contractor's home office organization to support the work required in this RFP.

d. **Contractor's Guarantee.** The Proposer hereby warrants that all services rendered under the Agreement shall comply with the highest standards in the building maintenance industry and warrants that all equipment, material and other goods furnished under the Agreement are free from defects in design and workmanship, are merchantable and are fit for the ordinary purposes for which such materials, equipment and other goods are used. The foregoing warranties the services performed in the event that a third party performs and/or furnishes the equipment, materials and goods. Services and goods provided which do not meet these standards will be replaced at Proposer's expense. All work shall comply with all applicable state, local and federal requirements.

IV-4. Tasks.

a. Preventive Maintenance and Operation. The Proposer shall cause the equipment and systems identified in this RFP or covered in Appendix G – Preventative Maintenance Equipment Inventory, to be maintained in the manner outlined in the Preventive Maintenance Procedures documented as Appendix H – Preventative Maintenance Task List. The specific tasks required by equipment type are included in these Appendices. Preventive maintenance for the purposes of this RFP will include the following tasks: inspections, cleaning, testing, checks, observations, adjustments, calibration, winterizing, seasonal startups/shutdowns, and replacements of worn parts which have a standard life expectancy of less than five (5) years (as determined by the survey of the United States by ASHRAE Technical Committee TC 1.8). **Repairs and replacements for parts/equipment that have a life expectancy greater than five (5) years and have worn, failed or broken parts will be classified as Equipment Repair and/or Replacements for the purposes of this RFP.** The Proposer prior to implementing the identified maintenance procedures will review these procedures and verify consistency with the manufacturer's recommendations. The Proposer must immediately notify the Commission if any conflict exists between the maintenance requirements outlined in Appendix H – Preventative Maintenance (PM) Task List and the manufacturer's recommendations. The cost for the preventive maintenance work will be identified separately by building as shown in Appendix F – Cost Breakdown. The Commission will provide materials and labor to replace filters on the HVAC and plumbing systems.

Mission Critical Systems maintenance, testing, or planned repairs will be reported to and approved by the Commission Central Campus Maintenance and Repair Manager at least two (2) weeks prior to conducting such work. Mission critical is defined as issues related to property protection, Data Center Operations, Communications Center Operations, Private Branch Exchange (PBX) rooms, Uninterruptible Power Supply (UPS), generator, occupied zone/area temperatures greater than 79 degrees or less than 60 degrees, or loss of power to an operational area. The Commission may require that work involving a power outage be accomplished during non-working hours.

b. Monitoring and On Call Service. In performance of the Services, the Proposer shall provide on-call services twenty-four (24) hours per day, seven (7) days per week as required to properly maintain the systems covered and respond to alarms or other malfunctions annunciated by pager, telephone call, or email. The Proposer will respond to alarms by telephone within 1 hour of notice and if situation requires an on-site response, will be at the facility within 4 hours. If parts or equipment are required but not in stock or readily available, equipment and parts must be delivered and installation initiated within 72 hours of initial contact/alarm.

Mission Critical Emergency service items require response by telephone within 1 hour and repair/replacement initiation within 2 hours. Mission critical is defined as issues related to property protection, Data Center Operations, Communications Center Operations, PBX rooms,

Uninterruptible Power Supply (UPS), generator, occupied zone/area temperatures greater than 79 degrees or less than 60 degrees, or loss of power to an operational area. If parts or equipment are required but not in stock or readily available, equipment and parts must be delivered and installation initiated within 8 hours of initial alarm/notification. The Proposer will employ temporary measures as needed to mitigate the Mission Critical Emergency until the final repair/replacement is completed.

c. Equipment Repair and/or Replacement. Equipment repair and/or replacement, as defined in Section IV-4a, will be considered extra work and shall not be included in the service costs in Appendix F – Cost Breakdown Pricing Tables 1, 2, and 3. Pricing for labor by trade is required in Tables 4A, 4B, and 4C. The Proposer shall use this pricing – and the specified markups for material, equipment, and subcontracted work – for equipment repair and/or replacement.

The Proposer shall replace or repair equipment and controls that are defective, worn, or malfunctioning. The replaced parts shall meet the requirements of the equipment manufacture and shall be replaced such that all manufacturers' warranties will be maintained.

IV-5. Reports and Project Control.

a. Task Plan. Provide a monthly work plan that identifies the work elements of each task, the resources assigned to the task, and the time allotted to each element and the deliverable items to be produced.

b. Status Report. The Proposer shall provide a log to the CAB Maintenance and Repair Manager on a quarterly basis of completed repairs, tests, and preventive maintenance service performed as part of the contract. The status reports shall be easily cross-referenced with the task plans.

c. Problem Identification Report. An "as required" report, identifying problem areas. The report should describe the problem and its impact on the facility and on each affected task. It should list possible courses of action with advantages and disadvantages of each, and include Proposer recommendations with supporting rationale.

d. Final Report.

Provide an overview of the services completed by building and system. Include the following items for each building system in the final report:

1. Summarize the location, purpose, and operation of the system.

2. Describe the preventive maintenance service – and major repairs, if any – that were completed

3. Summarize findings – and recommendations, if any – related to continuous and reliable operation.

4. Include all documents: warranties, operation and maintenance manuals, manufacturer and/or vendor bulletins, etc., which support reported findings.

5. Recommend a work plan to implement findings and improve system operation.

The final report shall be subject to the review and approval of the Issuing Office. If the Issuing Office decides the final report is unsatisfactory, furnish a revised final report within thirty (30) calendar days of receipt of comments from the Issuing Office.

AGREEMENT

This **AGREEMENT** is made this _____ day of _____, 2017, between the **Pennsylvania Turnpike Commission ("COMMISSION")**, an instrumentality of the Commonwealth of Pennsylvania, with principal offices at 700 South Eisenhower, Blvd., Middletown, Pennsylvania 17057 (mailing address: P. O. Box 67676, Harrisburg, PA 17106-7676);

AND

_____ **("CONTRACTOR")**, **[insert the legal status of CONTRACTOR such as a Pennsylvania (or Foreign) corporation (or partnership, LLC, LLP, etc)]**, with its principal office at **[insert address].**

WITNESSETH:

WHEREAS, the **COMMISSION** desires **[insert service to be provided];**

WHEREAS, by Act No. 211 of the General Assembly of the Commonwealth of Pennsylvania, approved May 21, 1937, and its amendments, the **COMMISSION** is authorized and empowered to enter into an Agreement with the **CONTRACTOR**;

WHEREAS, the **COMMISSION** desires to retain the services of **CONTRACTOR** upon the following terms; and

NOW, THEREFORE, in consideration of these mutual covenants, and intending to be legally bound, the parties agree as follows:

Definitions

[This section is for terms that have a special meaning for this Agreement or that are used in a way different from everyday or common usage.]

Contractor's Scope of Work

[There should be a document that specifies what we expect from the Contractor (such as deliverables; schedules and deadlines; representations or warranties; conditions or covenants; location of the work; use of specific persons; standards of performance; insurance requirements). This document must be made part of the Agreement (either as an exhibit which is attached or by referring to it in the Agreement without attaching it)].

The **CONTRACTOR** will perform the work described in **[identify the document/RFP#]** dated **[date]**, titled [**title]** and the **CONTRACTOR'S** proposal dated **[date]**. This document is **[SELECT ONE**: attached as Exhibit_ and made a part of this Agreement **OR** made part of this Agreement by reference].

Commission's Responsibilities

(This section needs to be removed from Agreement if not part of RFP requirements.)

The **COMMISSION** shall furnish the **CONTRACTOR** access to key personnel, relevant documents, and adequate workspace for completing the work.

Compensation

For the work, services, and material as defined in this Agreement, the **CONTRACTOR** shall be paid **[insert Commission approved compensation].**

The **CONTRACTOR** agrees that the **COMMISSION** may set off the amount of any state tax liability or other obligation of the **CONTRACTOR** or its subsidiaries to the Commonwealth against any payments due the **CONTRACTOR** under any contract with the **COMMISSION**.

Duration of Agreement **[and Renewal]**

The term of this Agreement shall be for a period of **[insert term]** and shall commence on the Effective Date as defined below.

The Effective Date shall be fixed by the **COMMISSION** after the Agreement has been fully executed by the **CONTRACTOR** and by the **COMMISSION**, and after all approvals required by the **COMMISSION** contracting procedures have been obtained.

The term may be extended for **[number]** additional years by a writing signed by both parties.

This Agreement will not terminate until the **COMMISSION** accepts all work as complete and tenders final payment to the **CONTRACTOR**.
OR
The time of completion may be extended if the extension is approved by the **COMMISSION** in the form of a letter signed by the **Chief Engineer or appropriate person the Agreement is for**. This letter will become part of this Agreement. This Agreement will not terminate until the **COMMISSION** accepts all work as complete and tenders final payment to the **CONTRACTOR**.

Termination

Either party may terminate this Agreement at any time upon thirty- (30) calendar days written notice. If this notice is given, the **CONTRACTOR** shall be paid only for the services already rendered upon the date of the notice and for the services rendered to the date of termination, subject to all provisions of this Agreement. The notice will be effective on the date of receipt. The right to cancel may be exercised as to the entire project, or as to any particular phase or phases, part or parts, and upon one or upon several occasions, but any termination may not be revoked except upon written consent of the parties through a supplemental Agreement to this Agreement.

Insurance

The **CONTRACTOR**, prior to execution of this Agreement, shall furnish to the **COMMISSION** the certificates of insurances as required in attached **Exhibit "X"** and made a part of this Agreement.

Diverse Business (DB) Requirements

The **CONTRACTOR** agrees to comply with the requirements set forth in the **COMMISSION'S** DB Requirements - **Exhibit X**, attached and made part of this Agreement. In particular, the **CONTRACTOR** agrees to comply with section (d) Consultant Requirements During Performance of Services.

Assignment and Delegation

The **CONTRACTOR** may not transfer, assign, or delegate any terms of this Agreement, in whole or in part, without prior written permission from the **COMMISSION**.

Governing Law

This Agreement will be interpreted according to the laws of the Commonwealth of Pennsylvania.

Observance of Laws

The **CONTRACTOR** agrees to observe all relevant federal, state, and local laws and to obtain in its name all necessary permits and licenses.

Work for Hire

Except for hardware, third party licensed software, and software previously developed by **CONTRACTOR,** all Deliverables, including but not limited to source code, software, specifications, plans, designs and engineering, drawings, data, information or other written, recorded, photographic, or visual materials, trademarks, service marks, copyrights or other Deliverables produced by **CONTRACTOR** or any supplier in the performance of this Agreement shall be deemed "Work Product". All Work Product shall be considered services for hire. Accordingly, except as set forth earlier in this paragraph, all Work Product shall be the exclusive property of the **COMMISSION**.

The **CONTRACTOR** agrees to notify the **COMMISSION** in writing before using any of **CONTRACTOR's** previously developed software for services provided under this Agreement.

The **CONTRACTOR** and the **COMMISSION** will honor all applicable preexisting licenses, copyrights, trademarks, service marks, and patents. If as part of an expense item under this Agreement, the **CONTRACTOR** purchases the right to any license, the agreements for the use or ownership of such license will be placed in the name of the **COMMISSION** along with all other rights and obligations. In addition, the **CONTRACTOR** will mark all Turnpike content or previously unprotected work product designated by the **COMMISSION** with a notice as follows: "Pennsylvania Turnpike Commission, (Year)".

Audit/Retention of Records

CONTRACTOR and its subcontractors shall maintain books and records related to performance of this Agreement or subcontract and necessary to support amounts charged to the **COMMISSION** in accordance with applicable law, terms and conditions of this Agreement, and generally accepted accounting practice. **CONTRACTOR** shall maintain these books and records for a minimum of three (3) years after the completion of the Agreement, final payment, or completion of any contract, audit or litigation, whichever is later. All books and records shall be available for review or audit by the **COMMISSION,** its representatives, and other governmental entities with monitoring authority upon reasonable notice and during normal business hours. **CONTRACTOR** agrees to cooperate fully with any such review or audit. If any audit indicates overpayment to **CONTRACTOR,** or subcontractor, the **COMMISSION** shall adjust future or final payments otherwise due. If no payments are due and owing to **CONTRACTOR,** or if the overpayment exceeds the amount otherwise due, **CONTRACTOR** shall immediately refund all amounts which may be due to the **COMMISSION.** Failure to maintain the books and records required by this Section shall establish a presumption in favor of the **COMMISSION** for the recovery of any funds paid by the **COMMISSION** under this Agreement for which adequate books and records are not available to support the purported disbursement.

Dispute Resolution

All questions or disputes regarding any matter involving this Agreement or its breach shall be referred to the Board of Claims of the Commonwealth of Pennsylvania pursuant to 62 Pa.C.S.A. § 1701 *et seq*. If the Board of Claims either refuses or lacks jurisdiction, these questions or disputes shall proceed as provided in 42 Pa.C.S.A. § 7301 *et seq*. (Statutory Arbitration).

The panel of arbitrators will consist of a representative of each of the parties and a third party chosen by the representatives, or if the representatives are unable to choose, by the American Arbitration Association.

Indemnification

The **CONTRACTOR** shall be responsible for, and shall indemnify, defend, and hold harmless the **COMMISSION** and its Commissioners, officers, employees, and agents (the "Indemnified Parties") from all claims, liabilities, damages, and costs including reasonable attorneys' fees, for bodily injury (including death) and damage to real or tangible personal property arising from or related to the negligence or other tortious acts, errors, and omissions of **CONTRACTOR**, its employees, or its subcontractors while engaged in performing the work of this Agreement or while present on the **COMMISSION's** premises, and for breach of this Agreement regarding the use or nondisclosure of proprietary and confidential information where it is determined that **CONTRACTOR** is responsible for any use of such information not permitted by this Agreement. This indemnification obligation shall not be reduced in any way by any limitation on the amount or type of damages, compensation, or benefits payable by **CONTRACTOR** or its subcontractors under any employee benefit act including but not limited to Workers' Compensation Acts, Disability Benefits Acts, or other Employee Benefit Act.

Contractor Integrity Provisions

The Contractor Integrity Provisions are attached as **[Exhibit X]** and made a part of this Agreement.

Confidentiality Provisions

1. As a consequence of the performance of its duties with the **COMMISSION**, **CONTRACTOR** may learn, be given, or become aware of certain information, including, but not limited to, matters pertaining to internal communications, information, proprietary information, individually identifiable health information, trade practices, business operations, or other sensitive information collectively known as Confidential Information. Regardless of how transmitted or received by **CONTRACTOR**, whether by receipt, sending, or merely becoming available to **CONTRACTOR** through its relationship to the **COMMISSION**, **CONTRACTOR** agrees to maintain and treat as proprietary and confidential to the **COMMISSION** all such Commission Confidential Information, and shall not discuss, reveal, or use for any purpose outside the performance of its contract with the **COMMISSION** such Commission Confidential Information. Confidential Information shall not include any information that (i) is or becomes available to the public other than as a consequence of a breach by any individual, a partnership, a corporation, an association, a limited liability company, a joint stock company, a trust, a joint venture, an unincorporated organization (each a "Person") of any fiduciary duty or obligation of confidentiality, including, without limitation, catalogues, publications, product descriptions and sales literature that the COMMISSION has distributed to the public generally; or (ii) information which at the time of disclosure to the CONTRACTOR is in the public domain; or (iii) is disclosed as required by a final, unappealable court order and no suitable protective order, or equivalent remedy, is available, or (iv) the CONTRACTOR was aware of prior to its disclosure to the CONTRACTOR by the COMMISSION from a source not bound by a confidential obligation and the CONTRACTOR provides the COMMISSION written notice of such fact prior to the execution of this Agreement or promptly upon the CONTRACTOR's learning that the information was Confidential Information; or (v) information which the CONTRACTOR can demonstrate with competent written evidence was independently developed by or for the CONTRACTOR without use of or reliance on the Confidential Information.

2. With respect to its employees, **CONTRACTOR** agrees to:

a) require all of its employees to maintain such confidentiality;

b) take appropriate action against its employees, officers, and subcontractors for any and all violations of this Agreement.

3. With respect to any subcontractors that **CONTRACTOR** wishes to employ to perform any of its obligations under any agreement with the **COMMISSION**, **CONTRACTOR** agrees to require any such approved subcontractor to execute written confidentiality agreements that require each such **CONTRACTOR** and its employees to comply with all the requirements set forth above.

4. **CONTRACTOR** agrees that any breach of these Confidentiality Provisions may result in civil and/or criminal penalties, for **CONTRACTOR**, its officers and employees, and subcontractors.

5. Notwithstanding any other provision to the contrary, **CONTRACTOR** agrees that these provisions shall survive the termination of this and any and all agreements between the **CONTRACTOR** and the **COMMISSION**.

6. **CONTRACTOR** agrees to treat the information in the same way **CONTRACTOR** treats its

own most confidential information and to inform each such person of these provisions.

7. **CONTRACTOR** agrees to immediately notify the **COMMISSION** of any information which comes to its attention which does or might indicate that there has been any loss of confidentiality or information.

8. **CONTRACTOR** shall return to the **COMMISSION** upon demand any and all Confidential Information entrusted to it by the **COMMISSION** pursuant to this Agreement (including any and all copies, abstracts, compilations or analyses thereof and memoranda related thereto or incorporating the Confidential Information) or the **CONTRACTOR** may request permission from the **COMMISSION**, which permission may be granted or denied in the **COMMISSION**'s sole discretion, to destroy all such Confidential Information and provide a certificate of destruction to the **COMMISSION** signed by the **CONTRACTOR**. The **CONTRACTOR** further agrees that neither itself nor its employees or representatives will copy, in whole or in part, any such Confidential Information without the prior written consent of the **COMMISSION**.

9. **CONTRACTOR** agrees that if they have had or will have an SSAE16 audit that they will comply with and abide by the findings of such audit to protect **COMMISSION** information.

Entire Agreement

This Agreement, together with any writings either attached as exhibits or incorporated by reference, constitutes the entire understanding between the parties and there are no other oral or extrinsic understandings of any kind between the parties.

Modification

This Agreement may be modified only by a writing signed by both parties.

[SIGNATURES ARE SET FORTH ON THE NEXT PAGE]

IN WITNESS WHEREOF, the **Pennsylvania Turnpike Commission** and **[Contractor's Name]** have executed this Agreement by their duly authorized officers on the date written above.

ATTEST: PENNSYLVANIA TURNPIKE COMMISSION

Ann Louise Edmunds Assistant Secretary-Treasurer	Date	Leslie S. Richards Chair	Date

APPROVED AS TO FORM AND LEGALITY:

Albert C. Peters II General Litigation & Contracts Counsel	Date	Pennsylvania Attorney General	Date

ATTEST: **[CONTRACTOR'S NAME]**

Signature_____ _____ Signature_____ _____
Date Date

Name_____ Name_____

Title_____ Title_____

Federal Tax ID No._____

CONTRACTOR INTEGRITY PROVISIONS

It is essential that those who seek to contract with the Pennsylvania Turnpike Commission ("Commission") observe high standards of honesty and integrity. They must conduct themselves in a manner that fosters public confidence in the integrity of the Commission contracting and procurement process.

I. DEFINITIONS. For purposes of these Contractor Integrity Provisions, the following terms shall have the meanings found in this Section:

a. **"Affiliate"** means two or more entities where (a) a parent entity owns more than fifty percent of the voting stock of each of the entities; or (b) a common shareholder or group of shareholders owns more than fifty percent of the voting stock of each of the entities; or (c) the entities have a common proprietor or general partner.

b. **"Consent"** means written permission signed by a duly authorized officer or employee of the Commission, provided that where the material facts have been disclosed, in writing, by prequalification, bid, proposal, or contractual terms, the Commission shall be deemed to have consented by virtue of the execution of this contract.

c. **"Contractor"** means the individual or entity, that has entered into this contract with the Commission, and "Contractor Related Parties" means any affiliates of the Contractor and the Contractor's executive officers, Pennsylvania officers and directors, or owners of 5% or more interest in the Contractor

d. **"Financial Interest"** means either:

i. Ownership of more than a five percent interest in any business; or

ii. Holding a position as an officer, director, trustee, partner, employee, or holding any position of management.

e. **"Gratuity"** means tendering, giving, or providing anything of monetary value including, but not limited to, cash, travel, entertainment, gifts, meals, lodging, loans, subscriptions, advances, deposits of money, services, employment, or contracts of any kind. See Commission Policy 3.10, Code of Conduct.

f. **"Non-bid Basis"** means a contract awarded or executed by the Commission with Contractor without seeking bids or proposals from any other potential bidder or offeror.

II. In furtherance of this policy, Contractor agrees to the following:

1. Contractor shall maintain the highest standards of honesty and integrity during the performance of this contract and shall take no action in violation of state or federal laws or regulations or any other applicable laws or regulations, or other requirements applicable to Contractor or that govern contracting or procurement with the Commission.

2. Contractor shall establish and implement a written business integrity policy, which includes, at a minimum, the requirements of these provisions as they relate to Contractor activity with the Commission and Commission employees and which is made known to all Contractor employees. Posting these Contractor Integrity Provisions conspicuously in easily-accessible and well-lighted places customarily frequented by employees and at or near where the contract services are performed shall satisfy this requirement.

3. Contractor, its affiliates, agents, employees and anyone in privity with Contractor shall not accept, agree to give, offer, confer, or agree to confer or promise to confer, directly or indirectly, any gratuity or pecuniary benefit to any person, or to influence or attempt to influence any person in violation of the Public Official and Employees Ethics Act, 65 Pa.C.S. §§1101 et seq.; the State Adverse Interest Act, 71 P.S. §776.1 et seq.; Commission Policy 3.10, Code of Conduct or in violation of any other federal or state law in connection with performance of work under this contract, except as provided in this contract.

4. Contractor shall not have a financial interest in any other contractor, subcontractor, or supplier providing services, labor, or material under this contract, unless the financial interest is disclosed to the Commission in writing and the Commission consents to Contractor's financial interest prior to Commission execution of the contract. Contractor shall disclose the financial interest to the Commission at the time of bid or proposal submission, or if no bids or proposals are solicited, no later than Contractor's submission of the contract signed by Contractor.

5. Contractor certifies to the best of its knowledge and belief that within the last five (5) years Contractor or Contractor Related Entities have not:

   a. been indicted or convicted of a crime involving moral turpitude or business honesty or integrity in any jurisdiction;

   b. been suspended, debarred or otherwise disqualified from entering into any contract with any governmental agency;

   c. had any business license or professional license suspended or revoked;

   d. had any sanction or finding of fact imposed as a result of a judicial or administrative proceeding related to fraud, extortion, bribery, bid rigging, embezzlement, misrepresentation or anti-trust; and

   e. been, and is not currently, the subject of a criminal investigation by any federal, state or local prosecuting or investigative agency and/or civil anti-trust investigation by any federal, state or local prosecuting or investigative agency.

   If Contractor cannot so certify to the above, then it must submit along with its bid, proposal or contract a written explanation of why such certification cannot be made and the Commission will determine whether a contract may be entered into with the Contractor. The Contractor's obligation pursuant to this certification is ongoing from and after the effective date of the contract through the termination date thereof. Accordingly, the Contractor shall have an obligation to immediately notify the Commission in writing if at any time during the term of the contract if becomes aware of any event which would cause the Contractor's certification or explanation to change. Contractor acknowledges that the

Commission may, in its sole discretion, terminate the contract for cause if it learns that any of the certifications made herein are currently false due to intervening factual circumstances or were false or should have been known to be false when entering into the contract.

6. Contractor shall comply with the requirements of the Lobbying Disclosure Act (65 Pa.C.S. §13A01 et seq.) regardless of the method of award. If this contract was awarded on a Non-bid Basis, Contractor must also comply with the requirements of the Section 1641 of the Pennsylvania Election Code (25 P.S. §3260a).

7. When Contractor has reason to believe that any breach of ethical standards as set forth in law, Commission Policy 3.10, Code of Conduct, or these Contractor Integrity Provisions has occurred or may occur, including but not limited to contact by a Commission officer or employee which, if acted upon, would violate such ethical standards, Contractor shall immediately notify the Commission contracting officer or the Chief Compliance Officer in writing.

8. Contractor, by submission of its bid or proposal and/or execution of this contract and by the submission of any bills, invoices or requests for payment pursuant to the contract, certifies and represents that it has not violated any of these Contractor Integrity Provisions in connection with the submission of the bid or proposal, during any contract negotiations or during the term of the contract, to include any extensions thereof. Contractor shall immediately notify the Commission in writing of any actions for occurrences that would result in a violation of these Contractor Integrity Provisions. Contractor agrees to reimburse the Commission for the reasonable costs of investigation incurred by the Chief Compliance Officer for investigations of the Contractor's compliance with the terms of this or any other agreement between the Contractor and the Commission that results in the suspension or debarment of the Contractor. Contractor shall not be responsible for investigative costs for investigations that do not result in the Contractor's suspension or debarment.

9. Contractor shall cooperate with the Chief Compliance Officer in investigating any alleged Commission agency or employee breach of ethical standards and any alleged Contractor non-compliance with these Contractor Integrity Provisions. Contractor agrees to make identified Contractor employees available for interviews at reasonable times and places. Contractor, upon the inquiry or request of the Chief Compliance Officer, shall provide, or if appropriate, make promptly available for inspection or copying, any information of any type or form deemed relevant by the Chief Compliance Officer to Contractor's integrity and compliance with these provisions. Such information may include, but shall not be limited to, Contractor's business or financial records, documents or files of any type or form that refer to or concern this contract. Contractor shall incorporate this paragraph in any agreement, contract or subcontract it enters into in the course of the performance of this contract/agreement solely for the purpose of obtaining subcontractor compliance with this provision. The incorporation of this provision in a subcontract shall not create privity of contract between the Commission and any such subcontractor, and no third party beneficiaries shall be created thereby.

10. For violation of any of these Contractor Integrity Provisions, the Commission may terminate this and any other contract with Contractor, claim liquidated damages in an

amount equal to the value of anything received in breach of these Provisions, claim damages for all additional costs and expenses incurred in obtaining another contractor to complete performance under this contract, and debar and suspend Contractor from doing business with the Commonwealth. These rights and remedies are cumulative, and the use or non-use of any one shall not preclude the use of all or any other. These rights and remedies are in addition to those the Commission may have under law, statute, regulation, or otherwise.

Appendix B
Proposer Questions Form

Proposer Questions	Pennsylvania Turnpike Commission (PTC) RFP #: 17-40130-8758 Proposer Name:				
#	Page	Section	Section Description	Proposer Question	Commission Response
1.					
2.					
3.					
4.					

APPENDIX C – PROPOSAL COVER SHEET
Pennsylvania Turnpike Commission

Mechanical/Electrical Maintenance Services
at
Central Administration Building (CAB)
TransCore Building (located on CAB site)
Turnpike Industrial Park (TIP) Building
TIP Maintenance Building (located on TIP site)
Steelton Warehouse
East Park Drive (EPD) E-ZPass Service Center

RFP #17-40130-8758

Enclosed in three separately sealed submittals is the proposal for the Proposer identified below for the above referenced RFP:

Proposer Information:	
Proposer Name	
Proposer Mailing Address	
Proposer Website	
Proposer Contact Person/Title	
Contact Person's Phone Number	
Contact Person's Fax Number	
Contact Person's Email Address	
Proposer Federal ID Number	
Location of Headquarters	
Location of Office(s) Performing the Work	
Listing of all Pennsylvania Offices and Total Number of Pennsylvania Employees	

Submittals Enclosed and Separately Sealed:

☐ Technical Submittal ☐ Diverse Business Participation Submittal ☐ Cost Submittal
Signature
Signature of an official authorized to bind the Proposer to the provisions contained in the Proposer's proposal: _____
Print Name
Title

An official authorized to bind the Proposer to its provisions must sign the proposal. If the official signs this Proposal Cover Sheet and the Proposal Cover Sheet is attached to the proposal, the requirement will be met.

Before starting any work and until completion and final payment is made for the work, or final acceptance of the work, the Proposer will provide and maintain the following minimum levels of insurance at Proposer's own expense. The cost of the required insurance shall be included in the Proposer's cost proposal and no adjustment shall be made to the contract price on account of such costs. Proposer shall furnish Certificates of Insurance showing the effective date of coverage as outlined below. No work may be performed until the required evidence of Insurance is provided in accordance with the terms of the contract. Proposer shall be responsible for ensuring that all Subcontractors hired by the Proposer are properly insured. Proposer shall not permit any such Subcontractors to start work until such evidence has been provided to the Proposer.

a) All insurance shall be procured from insurers permitted to do business in the State in which the project is taking place and having an A.M. Best Rating of at least "A-, Class VIII".

b) Proposer shall not have a Self-Insured Retention (SIR) on any policy greater than $50,000, which is the responsibility of the Proposer. If Proposer's policy(ies) has a Self-Insured Retention exceeding this amount, approval must be received from the Commission prior to starting work. In the event any policy includes an SIR, the Proposer is responsible for payment within the SIR of their policy(ies) and the Additional Insured requirements specified herein shall be offered within the SIR amount(s).

c) All insurance required herein, except for Professional Liability Insurance, shall be written on an "occurrence" basis.

d) The Proposer's insurance carrier(s) shall agree to provide at least thirty (30) days prior written notice to the Commission in the event coverage is canceled or non-renewed, unless cancellation is for non-payment of premium. In the event of cancellation or non-renewal of coverage(s) for any reason, it is the Proposer's responsibility to replace coverage to comply with the Contract requirements so there is no lapse of coverage for any time period.

   If the insurance carriers will not issue or endorse their policy(s) to comply with the above it is the responsibility of the Proposer to report any notice of cancellation or non-renewal at least thirty (30) days prior to the effective date of this notice.

e) Proposer shall provide the Commission with Certificates of Insurance, showing the insurance coverages listed below, ten days prior to the start of work of this Project and thereafter upon renewal or replacement of each coverage. The Proposer shall not begin any work until the Commission has reviewed and approved the Certificate of Insurance.

   Failure of the Commission to demand such certificate or other evidence of full compliance with these insurance requirements or failure of the Commission to identify a deficiency from evidence that is provided shall not be construed as a waiver of Proposer's obligation to maintain such insurance.

   Upon completion of the contract, an additional certificate(s) of insurance evidencing coverage shall be provided to the Commission with final application for payment.

f) The Commission, and its Commissioners, officers, employees and agents shall be added as ADDITIONAL INSUREDS on all required liability policies (except Workers' Compensation and Professional Liability) for ongoing operations and completed operations on a primary noncontributory basis.

g) Waiver of Rights of Subrogation: Proposer shall waive all rights of recovery against the Commission and all the additional insureds for loss or damage covered by any of the required insurance (except Professional Liability).

h) The amount of insurance in the required coverages shall not be construed to be a limitation of the liability on the part of the Proposer.

i) The carrying of insurance described below shall in no way be interpreted as relieving the Proposer of any responsibility or liability under the contract.

j) Any type of insurance or any increase in limits of liability not required by the Commission but which the Proposer requires for its own protection or on account of statute shall be its own responsibility and at its own expense.

k) Proposer shall promptly notify the Commission and the appropriate insurance company(ies) in writing of any accident(s) as well as any claim, suit or process received by the insured Proposer arising in the course of operations under the contract. The Proposer shall forward such documents received to its insurance company(ies), as soon as practicable, or as required by its insurance policy(ies).

REQUIRED COVERAGES - the following may be provided through a combination of primary and excess policies in order to meet the minimum limits set forth below:

1. **Workers' Compensation and Employer's Liability:**
Provided in the State in which the work is to be performed and elsewhere as may be required and shall include:

a) Workers' Compensation Coverage: Statutory Requirements

b) Employers Liability Limits not less than:

Bodily Injury by Accident:	$500,000 Each Accident
Bodily Injury by Disease:	$500,000 Each Employee
Bodily Injury by Disease:	$500,000 Policy Limit

c) Includes sole proprietorships and officers of corporation who will be performing the work.

2. **Commercial General Liability:**
Provided on standard ISO forms or an equivalent form including Premises - Operations, Independent Proposers, Products/Completed Operations, Broad Form Property Damage, Contractual Liability, and Personal Injury and Advertising Injury.

a) Occurrence Form with the following limits:

(1)	General Aggregate:	$2,000,000
(2)	Products/Completed Operations Aggregate:	$2,000,000
(3)	Each Occurrence:	$1,000,000
(4)	Personal and Advertising Injury:	$1,000,000

b) Products/Completed Operations Coverage must be maintained for a period of at least three (3) years after final payment/completion of work (including coverage for the Additional Insureds as set forth in these Insurance Requirements)

c) The General Aggregate Limit must apply on a Per Project basis.

3. **Automobile Liability:**

a) Coverage to include All Owned, Hired and Non-Owned Vehicles (or "Any Auto"). If Proposer does not have any Owned Vehicles, Proposer is still required to maintain coverage for Hired and Non-Owned Vehicles as either a stand-alone policy or endorsed onto the Commercial General Liability policy above

b) Per Accident Combined Single Limit $1,000,000

4. **Commercial Umbrella Liability:**

a) Policy(ies) to apply on a Following Form Basis of the following:
   (1) Commercial General Liability,
   (2) Automobile Liability, and
   (3) Employers Liability Coverage.

b) Minimum Limits of Liability
   Occurrence Limit: $4,000,000
   Aggregate Limit (where applicable): $4,000,000

5. **Network Security and Privacy Liability:**

a) Proposer shall maintain the following coverage including but not limited to:

   (1) Network Security Liability for third party liability arising out of hacking, network system intrusions, unauthorized access/use to data or systems, distribution of malicious code, denial of service and cyber extortion.

   (2) Privacy Liability for third party liability arising out of breach of privacy, inclusive of confidential and proprietary business information, HIPAA violations and other breaches of personally identifiable information and /or protected health information that may arise from their work with this contract.

b) Minimum Limits of Liability:
   Per Claim: $1,000,000
   Aggregate: $1,000,000

c) Privacy Breach notification and Credit Monitoring: $1,000,000 Per Occurrence

6. **Crime Insurance:**

d) Include the Employee Theft and Theft, Disappearance and Destruction coverage parts. The Employee Theft Coverage part shall include the Clients' Property Endorsement (ISO Form CR 04 01, or its equivalent).

e) Minimum Limits of Liability:
   Per Occurrence: $1,000,000

APPENDIX E

Pennsylvania Turnpike Commission
DIVERSE BUSINESS (DB) REQUIREMENTS

Diverse Business Participation. The Commission is committed to Diverse Business (DB) participation on competitive contracting opportunities. Firms or entities that have not previously performed work or provided services to the Commission are encouraged to respond to the solicitations. RFPs may include DB participation as part of the criteria for the evaluation of proposals, and the Commission may consider DB participation as a selection factor.

Minimum Participation Level (MPL). The minimum participation level (MPL) for the inclusion of DBs will be established in the RFP/advertisement as a percentage.

(a) General Requirements. Section 303 of Title 74 of the Pennsylvania Consolidated Statutes, 74 Pa.C.S. § 303, requires proposer on contracts funded pursuant to the provisions of Title 74 (Transportation) and 75 (Vehicle Code) administered and issued by the Commission to make Good Faith Efforts to solicit subonsultants that are Diverse Businesses (DBs) as defined in Section 303. The DB requirements of Section 303 apply to this contract.

Section 303 requires proposers to make Good Faith Efforts, as described below, to solicit subconsultants that are DBs during the proposal process to maximize participation of DBs in competitive contracting opportunities.

The Commission is committed to participation by DBs and will enforce the requirements of Section 303 and this section. Failure to make Good Faith Efforts and demonstrate such Good Faith Efforts in the solicitation of subconsultants may result in the proposer being declared ineligible for the contract.

Proposers shall document and submit to the Commission all Good Faith Efforts, as described in this section, to solicit subconsultants that are DBs during the solicitation process.

Proposers are encouraged to utilize and give consideration to consultants offering to utilize DBs in the selection and award of contracts.

Proposers shall not discriminate on the basis of gender, race, creed or color in the award and performance of contracts in accordance with 62 Pa.C.S. §3701.

Failure to comply with the requirements of Section 303 or this specification may result in the imposition of sanctions as appropriate under section 531 of the Procurement Code, 62 Pa.C.S.§ 531 relating to debarment and suspension.

The Commission's Director of the Office of Diversity and Inclusion, or designee, is designated the Responsible Official who shall supervise the DB program and ensure that the Commission complies with the DB program.

(b) Definitions. The following definitions apply to terms used in this specification:

1. Disadvantaged Business – A business that is owned or controlled by a majority of persons, not limited to members of minority groups, who are subject to racial, social, ethnic prejudice or cultural bias.

2. Diverse Business – A disadvantaged business, minority-owned or women-owned business or service-disabled veteran-owned or veteran-owned small business that has been certified by a third-party certifying organization.

3. Minority-owned Business – A business owned and controlled by a majority of individuals who are African Americans, Hispanic Americans, Native Americans, Asian Americans, Alaskans or Pacific Islanders.

4. Professional Services – An industry of infrequent, technical or unique functions performed by independent contractors or consultants whose occupation is the rendering of the services, including: (1) design professional services as defined in 62 Pa.C.S.§ 901 (relating to definitions); (2) legal services; (3) advertising or public relations services; (4) accounting, auditing or actuarial services; (5) security consultant services; (6) computer and information technology services; and (7) insurance underwriting services.

5. Pro Forma Effort-The act of completing a form or document identifying efforts to solicit DBs for a project in order to satisfy criteria with little or no expectation that the DBs contacted or identified will perform any of the work.

6. Service-Disabled Veteran-Owned Small Business – A business in the United States which is independently owned and controlled by a service-disabled veteran(s), not dominant in its field of operation, and employs 100 or fewer employees.

7. Subconsultant- Any individual, partnership, firm, or corporation entering into a contract with the prime consultant for work under the contract, including those providing professional and other services.

8. Third-party Certifying Organization – An organization that certifies a small business, minority-owned business, women-owned business or veteran-owned small business as a diverse business. The term includes: (1) the National Minority Supplier Development Council; (2) the Women's Business Development Enterprise National Council; (3) the Small Business Administration; (4) The Department of Veteran Affairs; (5) the Pennsylvania Unified Certification Program.

9. Veteran-owned Small Business –A small business owned and controlled by a veteran or veterans.

10. Women-Owned Business – A business owned and controlled by a majority of individuals who are women.

(c) Actions Required by Proposer during the procurement/consultant selection phase

1. Submission Requirements – Consultant Responsiveness.

a. **Minimum Participation Level (MPL) Documentation -** If the documentation submitted with the proposal demonstrates that the proposer has identified DBs sufficient to meet the MPL established for this contract, the proposer will be deemed to have satisfied the DB requirement during this phase. The proposer is required to provide the business name and business address of each DB and supporting documentation that includes proof of certification.

If the consultant's proposal demonstrates the consultant's inability to meet the MPL established for this contract, the proposer shall demonstrate Good Faith Efforts with its proposal. Failure to submit the required documentation demonstrating Good Faith Efforts as further described below with the proposal may result in a rejection of the proposal.

b. If no MPL has been established for this contract, the proposer is required to either provide a statement of intent that it will self-perform 100% of the work for the

agreement, or demonstrate Good Faith Efforts to solicit subconsultants that are DBs. In either case documentation shall be provided with the proposal.

Failure to submit the required information identified above with the proposal may result in a rejection of the proposal.

2. Good Faith Effort Requirements: The documentation of Good Faith Efforts must include the business name and business address of each DB considered. Supporting documentation must also include proof of certification and any explanation of Good Faith Efforts the proposer would like the Commission to consider. Any services to be performed by a DB are required to be readily identifiable to the agreement. Good Faith efforts are demonstrated by seeking out DB participation in the project given all relevant circumstances. The Commission requires the proposer to demonstrate more than Pro Forma Efforts. Evidence of Good Faith Efforts includes, but is not limited to:

a. Consultant solicits through all reasonable and available means the interest of all certified DBs with the capacity to perform the scope of work set forth in the agreement.
b. The proposer must provide written notification at least 5 business days before proposals are due to allow the DBs to respond to the solicitation.
c. The proposer must determine with certainty if DBs are interested by taking appropriate steps to follow up initial solicitations.
d. The proposer must make efforts to select portions of the work to be performed by DBs to includes, where appropriate, breaking out contract work into economically feasible units to facilitate DB participation;
e. It is the proposer's responsibility to make a portion of the work available to DBs and, to select those portions of the work, so as to facilitate DB participation.
f. The proposer shall provide evidence of such negotiations that include the names, addresses, and telephone numbers of DBs considered; A description of the information provided regarding the required work and services for the work selected for subconsultants; and evidence as to why additional agreements could not be reached for DBs to perform the work.
g. Proposers cannot reject or withhold solicitation of DBs as being unqualified without sound reasons based on a thorough investigation of their capabilities.
h. The DB's standing within its industry, membership in specific groups, organizations or associations and political or social affiliations (for example union v. non-union employee status) are not legitimate causes for the rejection or non-solicitation of proposals in the proposer's efforts to meet the Good Faith Efforts requirement.
i. Efforts to assist interested DBs in obtaining bonding, lines of credit or insurance.

3. Actions Taken by the Commission. As part of the proposal review process, the Commission will review the submissions to determine whether the proposer has complied with Section 303 and this requirement in the selection of DB subconsultants. The Commission will determine whether the proposer has either met the MPL or provided acceptable documentation as noted above. The Commission reserves the right to contact proposers for clarification during the review and negotiation process.

If the Commission determines that the proposer has failed to either meet the MPL or provide acceptable documentation as noted above, the proposal may be rejected.

(d) Consultant Requirements During Performance of Services.

1. Replacement of a DB Subconsultant. Consultant must continue good faith efforts through

completion of the contract. The obligation to make Good Faith Efforts to solicit subconsultants for any type of service extends to additional work required for any service which is identified to be performed by a DB. If at any time during the performance of the work, it becomes necessary to replace or add a subconsultant that is a DB, the consultant, as appropriate, shall immediately notify the Commission and seek approval in writing in accordance with the Agreement of the need to replace the DB, which notice shall include the reasons for the replacement. If a prime consultant who originally indicated that it would self-perform all work subsequently decides to use a subconsultant for any work under the contract, the consultant must submit documentation of all Good Faith Efforts as to the work for which a subconsultant is obtained.

2. Records. Maintain project records as are necessary to evaluate DB compliance and as necessary to perform the reporting function addressed below. Maintain all records for a period of 3 years following acceptance of final payment. Make these records available for inspection by the Commission, its designees or agents. These records should indicate:

2.a. The number of DB and non-DB subconsultants and the type of services performed on or incorporated in this project.

2.b. The progress and efforts made in seeking out DB subconsultant organizations and individual DB consultants for work on this project to increase the amount of DB participation and/or to maintain the commitments made at the time of the proposal to DBs.

2.c. Documentation of all correspondence, contacts, telephone calls, and other contacts made to obtain the service of DBs on this project.

3. Reports. Maintain monthly reports and submit reports as required by the Commission concerning those contracts and other business executed with DBs with respect to the records referred to in subsection (e)2. above in such form and manner as prescribed by the Commission. At a minimum, the Reports shall contain the following:

3.a The number of Contracts with DBs noting the type of services provided, including the execution date of each contract.

3.b The amounts paid to each DB during the month, the dates of payment, and the overall amounts paid to date. If no payments are made to a DB during the month, enter a zero ($0) payment.

3.c Upon request and upon completion of individual DB firm's work, submit paid invoices or a certification attesting to the actual amount paid. In the event the actual amount paid is less than the award amount, a complete explanation of difference is required.

4. Subconsultant Contracts

4.a. Subcontracts with DB firms will not contain provisions waiving legal rights or remedies provided by laws or regulations of the Federal Government or the Commonwealth of Pennsylvania or the Commission through contract provisions or regulations.

4.b. Prime consultant will not impose provisions on DB subconsultants that are more onerous or restrictive than the terms of the prime's contract with non-DBs.

4.c. Executed copies of subcontracts/purchase orders are to be received by the Commission before the commencement of work by the DB.

5. Payments to DB Subconsultants. Payments to DBs are to be made in accordance with the prompt payment requirements of Chapter 39, Subchapter D of the Procurement Code, 62 Pa.C.S. §3931 et seq. Performance of services by a DB subcon sultant in accordance with the terms of the contract entitles the subconsultant to payment.

(e) Actions to be Taken by Commission After Performance of Services. Following completion of the Consultant's services, the Director of the Commission's Office of Diversity and Inclusion or his/her designee will review the overall DB participation to assess the Consultant's compliance with Section 303 and this contract. Appropriate sanctions may be imposed under 62 Pa.C.S. § 531 (relating to debarment or suspension) for a Consultant's failure to comply with Section 303 and the requirements of the contract.

Pricing Table 1
Annual Cost for Two (2) Year Contract Term

Building	Estimated Labor Hours (Annual Hours)	Annual Cost ($)
Central Administration Building (CAB)		
Transcore Building at CAB		
Turnpike Industrial Park Building (TIP)		
TIP Maintenance Building		
Steelton Warehouse		
East Park Drive (EPD) E-ZPass Center		
Totals		

Pricing Table 2
Annual Cost for First Renewal for Two (2) Years (years 3 and 4)

Building	Estimated Labor Hours (Annual Hours)	Annual Cost ($)
Central Administration Building (CAB)		
Transcore Building at CAB		
Turnpike Industrial Park Building (TIP)		
TIP Maintenance Building		
Steelton Warehouse		
East Park Drive (EPD) E-ZPass Center		
Totals		

Pricing Table 3
Annual Cost for Second Renewal for Two (2) Years (years 5 and 6)

Building	Estimated Labor Hours (Annual Hours)	Annual Cost ($)
Central Administration Building (CAB)		
Transcore Building at CAB		
Turnpike Industrial Park Building (TIP)		
TIP Maintenance Building		
Steelton Warehouse		
East Park Drive (EPD) E-ZPass Center		
Totals		

Pricing Table 4A

Unit Costs for Additional Work for Two (2) Year Contract Term

Labor. Unit rates shall be listed for major trades such as laborers, pipe fitters, plumbers, electricians, sheet metal workers, ATC and BAS controls technicians, fire alarm and sprinkler system technicians, and any other major trade employed in the completion of this service. Labor rates shall include all overhead, profit and supervision costs, and shall not be subject to any further markups when utilized in the computation of any proposed repair/replacement priced by time and materials basis or by calculation of a lump sum proposal. The Owner reserves the right to request additional labor rates.

TRADE	STRAIGHT TIME RATE PER HOUR	OVERTIME RATE PER HOUR

Mark Up for Material and Equipment. Material and equipment charges used to compute Contract Change Orders will be based on original supplier invoices and a maximum allowable standard markup of fifteen percent (15%) to original supplier invoices.

These standard markups shall include overhead and profit and all administrative, delivery and handling charges and will not be subject to any further markup or charges. The PTC reserves the right to furnish replacement parts or materials for installation by the contractor for repair/replacement work.

Contractor Acceptance of Material and **Equipment Mark Up: Circle_____YES__or __ NO**

Mark Up for Subcontracted Work. Coordination fee for additional work that requires the use of a subcontractor will be based on the following maximum allowable standard markup of fifteen percent (15%) to subcontractor's invoice. The Contractor shall submit copies to PTC of invoices submitted by subcontractors. This standard markup shall include all overhead, profit, administrative and supervision costs, and shall not be subject to any further markups when utilized in the computation of the cost for additional work.

Contractor Acceptance of Subcontracted Work Mark Up: Circle_____YES__or __ NO

Pricing Table 4B

Unit Costs for Additional Work for First Two (2) Year Contract Renewal (years 3 and 4)

Labor. Unit rates shall be listed for major trades such as laborers, pipe fitters, plumbers, electricians, sheet metal workers, ATC and BAS controls technicians, fire alarm and sprinkler system technicians, and any other major trade employed in the completion of this service. Labor rates shall include all overhead, profit and supervision costs, and shall not be subject to any further markups when utilized in the computation of any proposed repair/replacement priced by time and materials basis or by calculation of a lump sum proposal. The Owner reserves the right to request additional labor rates.

TRADE	STRAIGHT TIME RATE PER HOUR	OVERTIME RATE PER HOUR

Mark Up for Material and Equipment. Material and equipment charges used to compute Contract Change Orders will be based on original supplier invoices and a maximum allowable standard markup of fifteen percent (15%) to original supplier invoices.

These standard markups shall include overhead and profit and all administrative, delivery and handling charges and will not be subject to any further markup or charges. The PTC reserves the right to furnish replacement parts or materials for installation by the contractor for repair/replacement work.

Contractor Acceptance of Material and **Equipment Mark Up: Circle_____YES__or___ NO**

Mark Up for Subcontracted Work. Coordination fee for additional work that requires the use of a subcontractor will be based on the following maximum allowable standard markup of fifteen percent (15%) to subcontractor's invoice. The Contractor shall submit copies to PTC of invoices submitted by subcontractors. This standard markup shall include all overhead, profit, administrative and supervision costs, and shall not be subject to any further markups when utilized in the computation of the cost for additional work.

Contractor Acceptance of Subcontracted Work Mark Up: Circle_____YES__or___ NO

Pricing Table 4C

Unit Costs for Additional Work for Second Two (2) Year Contract Renewal (years 5 and 6)

Labor. Unit rates shall be listed for major trades such as laborers, pipe fitters, plumbers, electricians, sheet metal workers, ATC and BAS controls technicians, fire alarm and sprinkler system technicians, and any other major trade employed in the completion of this service. Labor rates shall include all overhead, profit and supervision costs, and shall not be subject to any further markups when utilized in the computation of any proposed repair/replacement priced by time and materials basis or by calculation of a lump sum proposal. The Owner reserves the right to request additional labor rates.

TRADE	STRAIGHT TIME RATE PER HOUR	OVERTIME RATE PER HOUR

Mark Up for Material and Equipment. Material and equipment charges used to compute Contract Change Orders will be based on original supplier invoices and a maximum allowable standard markup of fifteen percent (15%) to original supplier invoices.

These standard markups shall include overhead and profit and all administrative, delivery and handling charges and will not be subject to any further markup or charges. The PTC reserves the right to furnish replacement parts or materials for installation by the contractor for repair/replacement work.

Contractor Acceptance of Material and **Equipment Mark Up: Circle_____YES__or __ NO**

Mark Up for Subcontracted Work. Coordination fee for additional work that requires the use of a subcontractor will be based on the following maximum allowable standard markup of fifteen percent (15%) to subcontractor's invoice. The Contractor shall submit copies to PTC of invoices submitted by subcontractors. This standard markup shall include all overhead, profit, administrative and supervision costs, and shall not be subject to any further markups when utilized in the computation of the cost for additional work.

Contractor Acceptance of Subcontracted Work Mark Up: Circle_____YES__or __ NO

Appendix G

PENNSYLVANIA TURNPIKE COMMISSION

Preventive Maintenance (PM) Equipment Inventory - Contractor's Responsibility

PENNSYLVANIA TURNPIKE COMMISSION

Preventive Maintenance Equipment Inventory - Contractor's Responsibility

HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
RTU 1-1	Carrier	48HCTD28ABM6-2H2B0		3/17	EPD	Vending Area
Major Component:		**Roof Top Unit**				Employee Entrance
	Unit Size:	25 ton				
			Comments:			
RTU 1-2	Carrier	48HCSA06A2M6-2F2E0		3/17	EPD	A Common
	Unit Size:	5 ton				
			Comments:			
RTU 1-3	Carrier	48HCRD24ABM6-2H2B0		3/17	EPD	B Common
	Unit Size:	20 ton				
			Comments:			
RTU 1-4	Carrier	48HCRA04A2M6-0F2E0		3/17	EPD	Rm 14 Center Hallway
	Unit Size:	3 ton				
			Comments:			
RTU 1-5	Carrier	48HCSD09A2M6-0F2E0		3/17	EPD	B Common Area
	Unit Size:	8.5 ton				
			Comments:			
RTU 1-6	Carrier	48HCRA04A2M6-2F2E0		3/17	EPD	Rm 25-27 Area A
	Unit Size:	4 ton				
			Comments:			
RTU 1-7	Carrier	48HCSD08A2M6-2F2E0		3/17	EPD	Common Area C Rm 36 - Rm 44
	Unit Size:	7.5 ton				
			Comments:			
RTU 1-8	Carrier	48HCRD17A3M6-2H2B0		3/17	EPD	Mailroom Common Area B
	Unit Size:	15 ton				
			Comments:			

PENNSYLVANIA TURNPIKE COMMISSION

Preventive Maintenance Equipment Inventory - Contractor's Responsibility

HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
RTU 1-9	Carrier	48HCRD14A2M6-2F2E0		3/17	EPD	Common Area C East Side
Major Component:		**Roof Top Unit**				
	Unit Size:	12.5 ton				
			Comments:			
RTU 1-10	Carrier	48HCRA06A2M6-2F2E0		3/17	EPD	Common Area C
	Unit Size:	5 ton				
			Comments:			
RTU 1-11	Carrier	48HCSA04A2M6-2F2E0		3/17	EPD	Lobby Large BD
	Unit Size:	3 ton				
			Comments:			
RTU 1-12	Carrier	48HCSD17A2M6-2H2B0		3/17	EPD	Warehouse
	Unit Size:	15 ton				
			Comments:			
ATS-1	ASCO	J7ADTBB30150N5XC Automatic Transfer Switch		3/17	EPD	Room 49
	Unit Size:	150A				
			Comments: 480V/60Hz 3-phase 4-Wire			
ATS-2	ASCO	H7ADTBB30800N5XC Automatic Transfer Switch		3/17	EPD	Room 49
	Unit Size:	800A				
			Comments: 480V/60Hz 3-phase 4-Wire			
	Square D	Main Switch Board		3/17	EPD	Elect Rm 48
	Unit Size:	1600 A				
			Comments: 480/277 Volts			
NH1	Square D	Panel Board		3/17	EPD	Elect Rm 48
	Unit Size:	400 A				
			Comments: 480/277 Volts			

PENNSYLVANIA TURNPIKE COMMISSION

Preventive Maintenance Equipment Inventory - Contractor's Responsibility

HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
NH2	Square D			3/17	EPD	Elect Rm 38
Major Component:		**Panel Board**				
	Unit Size:	600 A				
			Comments: 480/277 Volts			
NH3	Square D			3/17	EPD	Elect Rm 08
	Unit Size:	400 A				
			Comments: 480/277 Volts			
LSH1	Square D			3/17	EPD	Emerg Panel Rm 49
	Unit Size:	400 A				
			Comments: 480/277 Volts			
LSH2	Square D			3/17	EPD	Elect Rm 38
	Unit Size:	100 A				
			Comments: 480/277 Volts			
LSH3	Square D			3/17	EPD	Elect Rm 08
	Unit Size:	100 A				
			Comments: 480/277 Volts			
OSH1	Square D			3/17	EPD	Emerg Panel Rm 49
	Unit Size:	800 A				
			Comments: 480/277 Volts			
OSH2	Square D			3/17	EPD	Elect Rm 38
	Unit Size:	225 A				
			Comments: 480/277 Volts			
OSH3	Square D			3/17	EPD	Elect Rm 08
	Unit Size:	225 A				
			Comments: 480/277 Volts			

PENNSYLVANIA TURNPIKE COMMISSION

Preventive Maintenance Equipment Inventory - Contractor's Responsibility

HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
NL1	Square D			3/17	EPD	Elect Rm 48
Major Component:		**Panel Board**				
	Unit Size:	400 A				
			Comments: 208/120 Volts			
NL2	Square D			3/17	EPD	Elect Rm 38
	Unit Size:	600 A				
			Comments: 208/120 Volts			
NL3	Square D			3/17	EPD	Elect Rm 38
	Unit Size:	225 A				
			Comments: 208/120 Volts			
NL4	Square D			3/17	EPD	Elect Rm 38
	Unit Size:	225 A				
			Comments: 208/120 Volts			
NL5	Square D			3/17	EPD	Elect Rm 38
	Unit Size:	225 A				
			Comments: 208/120 Volts			
NL6	Square D			3/17	EPD	Elect Rm 08
	Unit Size:	400 A				
			Comments: 208/120 Volts			
NL7	Square D			3/17	EPD	Elect Rm 08
	Unit Size:	225 A				
			Comments: 208/120 Volts			
NL8	Square D			3/17	EPD	Corridor 17
	Unit Size:	250 A				
			Comments: 208/120 Volts			

PENNSYLVANIA TURNPIKE COMMISSION

Preventive Maintenance Equipment Inventory - Contractor's Responsibility

HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
NL9	Square D			3/17	EPD	IT Office 57
Major Component:		**Panel Board**				
	Unit Size:	225 A				
			Comments: 208/120 Volts			
NL10	Square D			3/17	EPD	Elect Rm 48
	Unit Size:	400 A				
			Comments: 208/120 Volts			
LSL1	Square D			3/17	EPD	Emerg Panel Rm 49
	Unit Size:	100 A				
			Comments: 208/120 Volts			
LSL2	Square D			3/17	EPD	Elect Rm 38
	Unit Size:	100 A				
			Comments: 208/120 Volts			
LSL3	Square D			3/17	EPD	Elect Rm 08
	Unit Size:	100 A				
			Comments: 208/120 Volts			
OSL1	Square D			3/17	EPD	Emerg Panel Rm 49
	Unit Size:	800 A				
			Comments: 208/120 Volts			
OSL-1	Square D			3/17	EPD	Emerg Panel Rm 49
	Unit Size:	800 A				
			Comments: 208/120 Volts			
OSL-2	Square D			3/17	EPD	Elect Rm 38
	Unit Size:	100 A				
			Comments: 208/120 Volts			

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Preventive Maintenance Equipment Inventory - Contractor's Responsibility

HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
OSL-3	Square D			3/17	EPD	Elect Rm 08
Major Component:		**Panel Board**				
	Unit Size:	100 A				
			Comments: 208/120 Volts			
UPS-A1	Square D			3/17	EPD	Telecom Rm 09
	Unit Size:	100 A				
			Comments: 208/120 Volts			
UPS-A2	Square D			3/17	EPD	Telecom Rm 41
	Unit Size:	100 A				
			Comments: 208/120 Volts			
UPS-B1	Square D			3/17	EPD	Telecom Rm 09
	Unit Size:	100 A				
			Comments: 208/120 Volts			
UPS-B2	Square D			3/17	EPD	Telecom Rm 41
	Unit Size:	100 A				
			Comments: 208/120 Volts			
		Dry Type		3/17	EPD	Emerg Panel
Major Component:		**Transformer**				Rm 49
	Unit Size:	15 KVA				
			Comments: 480/208 Volts			
				3/17	EPD	Elect Rm 08
		Transformer				
	Unit Size:	15 KVA				
			Comments: 480/120 Volts			
				3/17	EPD	Elect Rm 38
		Transformer				
	Unit Size:	15 KVA				
			Comments: 480/120 Volts			

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Preventive Maintenance Equipment Inventory - Contractor's Responsibility

HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
				3/17	EPD	Elect Rm 08
Major Component:		**Transformer**				
	Unit Size:	30 KVA				
			Comments: 480/120 Volts			
				3/17	EPD	Elect Rm 38
	Unit Size:	30 KVA				
			Comments: 480/120 Volts			
				3/17	EPD	Elect Rm 48
	Unit Size:	75 KVA				
			Comments: 480/120 Volts			
				3/17	EPD	Elect Rm 08
	Unit Size:	112.5 KVA				
			Comments: 480/120 Volts			
				3/17	EPD	Elect Rm 38
	Unit Size:	150 KVA				
			Comments: 480/120 Volts			
				3/17	EPD	Emerg Panel Rm 49
	Unit Size:	225 KVA				
			Comments: 480/120 Volts			
	SEIMEN	FHD2002-UI			EPD	Room 48
		Fire Panel				
	Unit Size:					
			Comments:			
	LIEBERT	0136C51565		2001	EPD - Roof	Data
		Condenser	CSL 083LP			
	Unit Size:	0.75				
			Comments:			

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Preventive Maintenance Equipment Inventory - Contractor's Responsibility

HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
	LIEBERT	0136C51575			EPD - Roof	Data Center
Major Component:		**Condenser**	CSL 03LP			
	Unit Size:	0.75				
			Comments:			
	LIEBERT	0136C51569			EPD - Roof	Data
			CSL 03LP			
	Unit Size:					
			Comments:			
	LIEBERT	37SA050C0C6B708			EPD	Data Center
		Npower UPS				
	Unit Size:					
			Comments:			
	LIEBERT	37SA050CCC6B708			EPD	Data Center
		Npower UPS				
	Unit Size:					
			Comments:			
	Generator	500	CAT00C15CNAP01475		EPD	
	Unit Size:					
			Comments:			
			106817-3		EPD	Data Center
Major Component:		**Fire**				
		Fire Suppression System Data Center				
	Unit Size:					
			Comments:			
	Unit Size:					
			Comments:			
	Unit Size:					

Central Administration Building (CAB)
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Preventive Maintenance Equipment Inventory - Contractor's Responsibility

HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
ATS-1	ASCO	940	118573	3/7/2001	CAB 082-Elec Room	Emergency Lighting
Major Component:	**Automatic Transfer Switch**					
	Unit Size:	150A				
		Comments: 480Y / 277V Group 7 control panel				
ATS-2	ASCO	940	118574	3/7/2001	CAB 082-Elec Room	AHU 1&2 Smoke Evac
	Unit Size:	260A				
		Comments: Generator Excerciser, 480Y / 277V, Group 7 control panel				
ATS-3	ASCO	940	118571-2	3/7/2001	CAB 082-Elec Room	UPS
	Unit Size:	150A				
		Comments: 480Y / 277V				
ATS-4	ASCO	940	125860	3/7/2001	CAB 082-Elec Room	A/C Units Call Center
	Unit Size:	150A				
		Comments: Generator Exerciser, 480Y / 277V, Group 7 control panel				
ATS-5	ASCO	940	118573	3/7/2001	CAB 082-Elec Room	UPS
	Unit Size:	150A				
		Comments: 480Y / 277V, Group 7 control panel				
MTS	ASCI	386	118575	3/7/2001	CAB 081-MER	Heating Pumps Boilers
	Unit Size:	260 AMP				
		Comments: Load transfer switch / non-automatic				
EHDP	Cutler-Hammer			3/7/2001	CAB 065 - Vestibule	East high voltage riser
Major Component:	**Distribution Panelboards**					
	Unit Size:	400A				
		Comments: 480/227V 3-Phase 4-Wire				
NHDP	Cutler-Hammer			3/7/2001	CAB 048-Office	North High Voltage Riser
Major Component:	**Distribution Panelboards**					
	Unit Size:	400 AMP				
		Comments: 480/227V 3-Phase 4-Wire				

PENNSYLVANIA TURNPIKE COMMISSION

Preventive Maintenance Equipment Inventory - Contractor's Responsibility

HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
NLDP	Cutler-Hammer			3/7/2001	CAB 048-Office	North Low Voltage Riser
Major Component:		**Distribution Panelboards**				
	Unit Size:	800 AMP				
			Comments: 208/120V 3-Phase 4-Wire			
NLIGDP	Cutler-Hammer			3/7/2001	CAB 048-Office	North Isolated Ground Riser
	Unit Size:	400 AMP				
			Comments: TVSS 208/120V 3-Phase 4-Wire			
SHDP	Cutler-Hammer			3/7/2001	CAB 080-Transformer	South High Voltage Riser
	Unit Size:	800A				
			Comments: 480/227V 3-Phase 4-Wire			
SLDP	Cutler-Hammer			3/7/2001	CAB 080-Transformer	South Low Voltage Riser
	Unit Size:	600A				
			Comments: 208/120V 3-Phase 4-Wire			
SLIGDP	Cutler-Hammer			3/7/2001	CAB 080-Transformer	South Isolated Ground Riser
	Unit Size:	225A				
			Comments: TVSS 208/120V 3-Phase 4-Wire			
WHDP	Cutler-Hammer			3/7/2001	CAB 028-Mechanical	West High Voltage Riser
	Unit Size:	400A				
			Comments: 480/227V 3-Phase 4-Wire			
T01	Cutler-Hammer			3/7/2001	CAB 092 Transfer Room	Main Distribution
Major Component:		**Dry-Type Transformers**				
	Unit Size:	2500 KVA				
			Comments:			
T02	Cutler-Hammer			3/7/2001	CAB 081-Mechanical Mezzanine	S Riser Area E/GR & 1st FL
	Unit Size:	75 KVA				
			Comments: 480V-480V K-13			

PENNSYLVANIA TURNPIKE COMMISSION

Preventive Maintenance Equipment Inventory - Contractor's Responsibility

HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
T03	Liebert	ITA030C-FK20	03902MX	3/7/2001	CAB 066 Mechanical Room	E Riser Area B/GR & 1st FL
Major Component:		**Dry-Type Transformers**				
	Unit Size:	125 KVA				
			Comments: 480V-208Y / 120V			
T04	Liebert	ITA050C-FK20	040013MX	3/7/2001	CAB 081 Storage	S Riser Area E/GR & 1st FL
	Unit Size:	50 KVA				
			Comments: 480V-208Y / 120V K-20			
T05	Liebert	ITA-050C-FK20	04003MX	3/7/2001	CAB 028 Mechanical Room	W Riser Area C/GR & 1st FL
	Unit Size:	50 KVA				
			Comments: 480V-208Y / 120V K-20			
T06	Liebert	ITS 125C-FK20	04005MX	3/7/2001	CAB 092 Transfer Room	N Riser Area A/GR - 3rd FL
	Unit Size:	125 KVA				
			Comments: 480V-208Y / 120V K-20			
T07	Liebert	ITA075C-FK20	04008MX	3/7/2001	CAB 080 Transformer Room	S Riser Area E/GR - 3rd FL
	Unit Size:					
			Comments: 480V-208Y / 120V K-20			
T08	Cutler-Hammer	V15160	J00G0340	3/7/2001	CAB 129 Electric Closet	N Riser Area A/1-3 FL
	Unit Size:	15 KVA				
			Comments: 480V-208Y / 120V			
T09	Cutler-Hammer	V12157	J00G0447	3/7/2001	CAB 066 Mechanical Room	E Riser Area B/GR & 1st FL
	Unit Size:	30 KVA				
			Comments: 480V-208Y / 120V K13			
T10	Cutler-Hammer	V12157	J00G2933	3/7/2001	CAB 028 Mechanical Room	W Riser Area C/GR & 1st FL
	Unit Size:	112.5 KVA				
			Comments: 480V-208Y/120V			

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Preventive Maintenance Equipment Inventory - Contractor's Responsibility

HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
T11	Cutler-Hammer	V55078	J00H3727	3/7/2001	CAB 092 Transfer Room	Sub Distibution (all)
Major Component:		**Dry-Type Transformers**				
	Unit Size:	500 KVA				
			Comments: 480-208/120V			
T12	Cutler-Hammer	V49001	J01B0388	3/7/2001	CAB 080 Transformer Room	S Riser Area E/GR-3rd FL
	Unit Size:	150 KVA				
			Comments: 480V-208Y / 120V			
EO	Cutler-Hammer			3/7/2001	CAB 084 - Emergency Generator	Emergency Power
Major Component:		**Generator**				
	Unit Size:	1200 AMP				
			Comments: 480/277V 3-Phase 4-Wire			
HMDS	Cutler-Hammer	G0N0MPH01655		3/7/2001	CAB 082 - Electrical	Bldg High Voltage Power
	Unit Size:	3000 AMP				
			Comments: 480Y / 277V Main Distribution Switchboard			
LSDS	Cutler-Hammer	G0N0MPH01655		3/7/2001	CAB 082 - Electrical Room	Bldg Low Voltage Power
	Unit Size:	1600 AMP				
			Comments: 208Y / 120V Sub Distribution Switchboard			
GEN1	CAT	Eng. #3412 Generator #SR4B	Eng #81Z24922 Gen #9FG02178 Arrangment #9Y-0448	3/7/2001	CAB 084 Emergency Generator	Emergency Power
Major Component:						
Emergency Generator						
	Unit Size:	600 KW				
			Comments:			
LC	Cutler-Hammer	POW-R-Line 2A	AL6109072903-0002	3/7/2001	CAB Varies	CAB
Major Component:		**Lighting Controls**				
	Unit Size:					
			Comments:			
MCCI	Cutler-Hammer	IT 020-FVC 2100 Series	MPH01655	3/7/2001	CAB 081-Mechanical Mezzanine	Solid Separator Chiller 1&2, P1/8
Major Component:		**Motor Control Center**				
	Unit Size:					
			Comments: 480V 3PH 60HZ			

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Preventive Maintenance Equipment Inventory - Contractor's Responsibility

HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
MCNEQ	Cutler-Hammer	IT 021-FVC 2100 Series	MPH01655	3/7/2001	CAB 089-Mechanical Room	EF-10,P9/13, P17/20
Major Component:						
Motor Control Center						
	Unit Size:					
			Comments: 208V 3PH 60HZ			
1EH	Cutler-Hammer			3/7/2001	CAB 139-Electrical	1st FL East High Voltage
	Unit Size:	225A				
			Comments: 208/120V 3-Phase 4-Wire			
1EL	Cutler-Hammer			3/7/2001	CAB 139-Electrical	1st FL East Low Voltage
	Unit Size:	225A				
			Comments: 208/120V 3-Phase 4-Wire			
1ELIG	Cutler-Hammer			3/7/2001	CAB 139-Electrical	1st FL East Isolated Ground
	Unit Size:	225A				
			Comments: TVSS 208/120V 3-Phase 4-Wire			
1NH	Cutler-Hammer			3/7/2001	CAB 129-Electric	1st FL North High Voltage
	Unit Size:	225A				
			Comments: 480/227V 3-Phase 4-Wire			
1NL	Cutler-Hammer			3/7/2001	CAB 129-Electric	1st FL North Low Voltage
	Unit Size:	400A				
			Comments: 208/120V 3-Phase 4-Wire			
1NLIG	Cutler-Hammer			3/7/2001	CAB 129-Electric	1st FL North Isolated Gr
	Unit Size:	225A				
			Comments: TVSS 208/120V 3-Phase 4-Wire			
1SH	Cutler-Hammer			3/7/2001	CAB 162-Lunch	1st FL South High Voltage
Major Component:		**Panelboards**				
	Unit Size:	225A				
			Comments: 480/277V 3-Phase 4-Wire			

PENNSYLVANIA TURNPIKE COMMISSION

Preventive Maintenance Equipment Inventory - Contractor's Responsibility

HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
1SL	Cutler-Hammer			3/7/2001	CAB 162-Lunch	1st FL South Low Voltage
Major Component:		**Panelboards**				
	Unit Size:	225A				
			Comments: 208/120V 3-Phase 4-Wire			
1SLIG	Cutler-Hammer			3/7/2001	CAB 162-Lunch	1st FL South Isolated Ground
	Unit Size:	225A				
			Comments: TVSS 208/120V 3-Phase 4-Wire			
1WH	Cutler-Hammer			3/7/2001	CAB 118-Electrical	1st FL West High Voltage
	Unit Size:	225A				
			Comments: 480/227V 3-Phase 4-Wire			
1WL	Cutler-Hammer			3/7/2001	CAB 118-Electrical	1st FL West Low Voltage
	Unit Size:	225A				
			Comments: 208/120V 3-Phase 4-Wire			
1WLIG	Cutler-Hammer			3/7/2001	CAB 118-Electrical	1st FL West Isolated Ground
	Unit Size:	225A				
			Comments: TVSS 208/120V 3-Phase 4-Wire			
2NH	Cutler-Hammer			3/7/2001	CAB 221-Electric	2nd FL North High Voltage
	Unit Size:	225A				
			Comments: 480/227V 3-Phase 4-Wire			
2NL	Cutler-Hammer			3/7/2001	CAB 221-Electric	2nd FL North Low Voltage
	Unit Size:	400A				
			Comments: 408/120V 3-Phase 4-Wire			
2NLIG	Cutler-Hammer			3/7/2001	CAB 221-Electric	2nd FL North Isolated Ground
	Unit Size:	225A				
			Comments: TVSS 208/120V 3-Phase 4-Wire			

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Preventive Maintenance Equipment Inventory - Contractor's Responsibility

HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
2SH	Cutler-Hammer			3/7/2001	CAB 236-Open Office	2nd FL South High Voltage
Major Component:		**Panelboards**				
	Unit Size:	225A				
			Comments: 480/227V 3-Phase 4-Wire			
2SL	Cutler-Hammer			3/7/2001	CAB 236-Open Office	2nd FL South Low Voltage
	Unit Size:	225A				
			Comments: 208/120V 3-Phase 4-Wire			
2SLIG	Cutler-Hammer			3/7/2001	CAB 236-Open Office	2nd FL South Isolated Ground
	Unit Size:	225A				
			Comments: TVSS 208/120V 3-Phase 4-Wire			
3NH	Cutler-Hammer			3/7/2001	CAB 335-Electric	3rd FL North High Voltage
	Unit Size:	225A				
			Comments: 480/227V 3-Phase 4-Wire			
3NL	Cutler-Hammer			3/7/2001	CAB 335-Electric	3rd FL North Low Voltage
	Unit Size:	400A				
			Comments: 208/120V 3-Phase 4-Wire			
3NLIG	Cutler-Hammer			3/7/2011	CAB 335-Electric	3rd FL North Isolated Ground
	Unit Size:	225A				
			Comments: TVSS			
3SH	Cutler-Hammer			3/7/2001	CAB 356A-Closet	3rd FL South High Voltage
	Unit Size:	225A				
			Comments: 480/277V 3-Phase 4-Wire			
3SL	Cutler-Hammer			3/7/2011	CAB 356A-Closet	3rd FL South Low Voltage
	Unit Size:	225A				
			Comments: 208/120V 3-Phase 4-Wire			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
3SLIG	Cutler-Hammer			3/7/2001	CAB 356A-Closet	3rd FL South Isolated Ground
Major Component:		**Panelboards**				
	Unit Size:	125A				
			Comments: TVSS 208/120V 3-Phase 4-Wire			
BLMEP	Cutler-Hammer			3/7/2001	CAB 089-Boiler Room	Basement Low Voltage MEP
	Unit Size:	225A				
			Comments: 208/120V 3-Phase 4-Wire			
GEH	Cutler-Hammer			3/7/2001	CAB 065-Vestibule	Ground East High Voltage
	Unit Size:	225A				
			Comments: 50A MCB 480/227V 3-Phase 4-Wire			
GEL	Cutler-Hammer			3/7/2001	CAB 065-Vestibule	Ground East Low Voltage
	Unit Size:	400A				
			Comments: 400A MCB 208/120V 3-Phase 4-Wire			
GELIG	Cutler-Hammer			3/7/2001	CAB 048-Office	Ground East Isolated Ground
	Unit Size:	225A				
			Comments: TVSS 150A MCB 208/120V 3-Phase 4-Wire			
GNH	Cutler-Hammer			3/7/2001	CAB 046-Office	Gr Floor North High Voltage
	Unit Size:	125A				
			Comments: 480/277V 3-Phase 4-Wire			
GNL	Cutler-Hammer			3/7/2001	CAB 048-Office	Ground North Low Voltage
	Unit Size:	225A				
			Comments: 208/120V 3-Phase 4-Wire			
GNLIG	Cutler-Hammer			3/7/2001	CAB 048-Office	Gr North Low Volt Isolated Ground
	Unit Size:	225A				
			Comments: 208/120V 3-Phase 4-Wire			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
GSH	Cutler-Hammer			3/7/2001	CAB 078-PC Setup	Ground South High Voltage
Major Component:		**Panelboards**				
	Unit Size:	225A				
			Comments: 50A MCB 480/227V 3-Phase 4-Wire			
GSL	Cutler-Hammer			3/7/2001	CAB 078-PC Setup	Ground South Low Voltage
	Unit Size:	225A				
			Comments: 100A MCB 208/120V 3-Phase 4-Wire			
GSLIG	Cutler-Hammer			3/7/2001	CAB 078-PC Setup	Ground South Isolated Ground
	Unit Size:	225A				
			Comments: TVSS 100A MCB 208/120V 3-Phase 4-Wire			
GWH	Cutler-Hammer			3/7/2001	CAB 028-Mechanical	Ground West High Voltage
	Unit Size:	225A				
			Comments: 350A MCB 208/120V 3-Phase 4-Wire			
GWL	Cutler-Hammer			3/7/2001	CAB 028-Mechanical	Ground West Low Voltage
	Unit Size:	400A				
			Comments: 350A MCB 208/120V 3-Phase 4-Wire			
GWLIG	Cutler-Hammer			3/7/2001	CAB 028-Mechanical	Ground West Isolated Ground
	Unit Size:	225A				
			Comments: TVSS 150A MCB 208/120V 3-Phase 4-Wire			
HEFR	Cutler-Hammer			3/7/2001	CAB 077-Mechanical	High Voltage East
	Unit Size:	225A				
			Comments: 480/227V 3-Phase 3-Wire			
HWFR	Cutler-Hammer			3/7/2001	CAB 016-Mechanical	High Voltage West
	Unit Size:	225A				
			Comments: 480/277V 3-Phase 3-Wire			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
KIT	Cutler-Hammer			3/7/2001	CAB 059-Dishwasher	Kitchen
Major Component:		**Panelboards**				
	Unit Size:	400A				
			Comments: 208/120V 3-Phase 4-Wire			
KITST	Cutler-Hammer			3/7/2001	CAB 059-Dishwasher	Kitchen
	Unit Size:	225A				
			Comments: 208/120V 3-Phase 4-Wire			
MCCNEQI	Cutler-Hammer			3/7/2001	CAB 089-Boiler Room	Normal Emerg Equip Power
	Unit Size:	225A				
			Comments: 208/120V 3-Phase 4-Wire			
OLE	Cutler-Hammer			3/7/2001	CAB 139-Electrical	East Outside Low Voltage
	Unit Size:	225A				
			Comments: 480/227V 3-Phase 4-Wire			
OLN	Cutler-Hammer			3/7/2001	CAB 126-Electrical	North Outside Low Voltage
	Unit Size:	225A				
			Comments: 480/227V 3-Phase 4-Wire			
OLW	Cutler-Hammer			3/7/2011	CAB 118-Electrical	West Outside Low Voltage
	Unit Size:	225A				
			Comments: 480/227V 3-Phase 4-Wire			
1CELB	Cutler-Hammer			3/7/2001	CAB 087-Electrical	1st FL Comm (Normal) Low Vol
Major Component:		**Panelboards - Emergency**				
	Unit Size:	225A				
			Comments: TVSS 208/120V 3-Phase 4-Wire			
1CELC	Cutler-Hammer			3/7/2001	CAB 087-Electrical	1st FL Comm (Normal) Low Vol
	Unit Size:	225A				
			Comments: TVSS 208/120V 3-Phase 4-Wire			

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Preventive Maintenance Equipment Inventory - Contractor's Responsibility

HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
1CULA	Cutler-Hammer			3/7/2001	CAB 087-Electrical	1st FL Comm (UPS) Low Voltage
Major Component:		**Panelboards -Emergency**				
	Unit Size:	225A				
		Comments: TVSS 208/120V 3-Phase 4-Wire				
1CULB	Cutler-Hammer			3/7/2001	CAB 087-Electrical	1st FL Comm (UPS) Low Voltage
	Unit Size:	225A				
		Comments: TVSS 208/120V 3-Phase 4-Wire				
1CULC	Cutler-Hammer			3/7/2001	CAB 087-Electrical	1st FL Comm (UPS) Low Voltage
	Unit Size:	225A				
		Comments: TVSS 208/120V 3-Phase 4-Wire				
1NELHA	Cutler-Hammer			3/7/2001	CAB 162-Lunch	1st FL Normal Life Safety High Voltage
	Unit Size:	225A				
		Comments: 480/277V 3-Phase 4-Wire				
1NELHB	Cutler-Hammer			3/7/2001	CAB 128-Fire Command	1st FL Normal Life Safety High Voltage
	Unit Size:	225A				
		Comments: 480/227V 3-Phase 4-Wire				
1NELL	Cutler-Hammer			3/7/2001	CAB 128-Fire Command	1st FL Normal Life Safety Low Voltage
	Unit Size:	100A				
		Comments: 208/120V 3-Phase 4-Wire				
2NELH	Cutler-Hammer			3/7/2001	CAB 221-Electrical	2nd FL Normal Emerg Life Safety Hi Volt
	Unit Size:	100A				
		Comments: 480/277V 3-Phase 4-Wire				
3	Cutler-Hammer			3/7/2001	CAB 087-Electrical	1st FL Comm (Normal) Low Voltage
	Unit Size:					
		Comments:				

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
3NELH	Cutler-Hammer			3/7/2001	CAB 335 Electrical	3rd FL Normal Life Safety High Voltage
Major Component:		**Panelboards - Emergency**				
	Unit Size:	100A				
		Comments: 480/277V 3-Phase 4-Wire				
BHELH	Cutler-Hammer			3/7/2001	CAB 089-Boiler Room	Normal Emerg Life Safety High Voltage
	Unit Size:	225A				
		Comments: 480/277V 3-Phase 4-Wire				
BHNQH	Cutler-Hammer			3/7/2001	CAB 089-Boiler Room	Normal Emerg Equip High Voltage
	Unit Size:	150A				
		Comments: 480/277V 3-Phase 4-Wire				
BNELL	Cutler-Hammer			3/7/2001	CAB 084-Emergency Generator	Base Normal Emergency Life Safety
	Unit Size:	225A				Low Voltage
		Comments: 208/120V 3-Phase 4-Wire				
DATAPDU	Liebert	**PDU**		3/7/2001	CAB 239-Data Room	Data Power Distribution
	Unit Size:	225A - (2 units)				
		Comments: TVSS 208/120V 3-Phase 4-Wire				
	Unit Size:					
		Comments:				
GCEL	Cutler-Hammer			3/7/2001	CAB 087-Electrical	Call Center (Normal Emer) Low Voltage
	Unit Size:	225A				
		Comments: 208/120V 3-Phase 4-Wire				
GCELA	Cutler-Hammer			3/7/2001	CAB 087-Electrical	Call Center (Normal) Low Voltage
	Unit Size:	225A				
		Comments: TVSS 208/120V 3-Phase 4-Wire				

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GCELB	Cutler-Hammer			3/7/2001	CAB 087-Electrical	Gr Comm (Normal) Low Voltage
Major Component:		**Panelboards - Emergency**				
	Unit Size:	225A				
		Comments: TVSS 208/120V 3-Phase 4-Wire				
GCELC	Cutler-Hammer			3/7/2001	CAB 087-Electrical	Gr Comm (Normal) Low Voltage
	Unit Size:	225A				
		Comments: TVSS 208/120V 3-Phase 4-Wire				
GCUL	Cutler-Hammer			3/7/2001	CAB 087-Electrical	Communication (UPS) Low Voltage
	Unit Size:	400A				
		Comments: 208/120V 3-Phase 4-Wire				
GCULA	Cutler-Hammer			3/7/2001	CAB 087-Electrical	Gr Comm (UPS) Low Voltage
	Unit Size:	225A				
		Comments: TVSS 208/120V 3-Phase 4-Wire				
GCULB	Cutler-Hammer			3/7/2001	CAB 087-Electrical	Gr Comm (UPS) Low Voltage
	Unit Size:	225A				
		Comments: TVSS 208/120V 3-Phase 4-Wire				
GNELHA	Cutler-Hammer			3/7/2001	CAB 087-Electrical	Gr FL Normal Emergency Life Safety
	Unit Size:	225A				High Voltage
		Comments: 480/277V 3-Phase 4-Wire				
GNELHB	Cutler-Hammer			3/7/2001	CAB 047-Corr	Gr Normal Emergency Life Safety
	Unit Size:	225A				High Voltage
		Comments: 480/277V 3-Phase 4-Wire				
GNELHC	Cutler-Hammer			3/7/2001	CAB 087-Electrical	Gr Normal Emergency Life Safety
	Unit Size:	200A				
		Comments: 480/277V 3-Phase 4-Wire				

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GNEQHA	Cutler-Hammer			3/7/2001	CAB 087-Electrical	Gr Normal Equipment High Voltage
Major Component:		**Panelboards -Emergency**				
	Unit Size:	225A				
			Comments: 480/277V 3-Phase 4-Wire			
UPS-087	Liebert	Series 300 AP 366	M14434F	3/7/2001	CAB 087	Call Center and 239 PDU
	Unit Size:	75 KVA				
			Comments:			
VFD AHU-	Cutler-Hammer	SV9000		3/7/2001	CAB 016-MER	AHU-1
Major Component:		**Variable Frequency Drive**				
	Unit Size:	50 HP				
			Comments:			
VFD AHU-	Cutler-Hammer	SV9000		3/7/2001	CAB 077-MER	AHU-2
	Unit Size:	50 HP				
			Comments:			
VFD AHU-	Cutler-Hammer	SV9000		3/7/2001	CAB 066-MER	AHU-6
	Unit Size:	50 HP				
			Comments:			
VFD AHU-	Cutler-Hammer	SV9000		3/7/2001	CAB 028-MER	AHU-7
	Unit Size:	50 HP				
			Comments:			
VFD P-15/	Cutler-Hammer	732AV16322A2394		3/7/2001	CAB 089-MER	Heating Hot Water
	Unit Size:	7.5 HP				
			Comments:			
VFD P-7/8	Cutler-Hammer	SV9000		3/7/2001	CAB 081-MER	Chilled Water
	Unit Size:	70 AMP				
			Comments:			

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VFD RF-1	Cutler-Hammer	SV9000		3/7/2001	CAB 077-MER	RF-1
Major Component:		**Variable Frequency Drive**				
	Unit Size:	50 HP				
			Comments:			
VFD RF-2	Cutler-Hammer	SV9000		3/7/2001	CAB 077-MER	RF-2
	Unit Size:	50 HP				
			Comments:			
VFD RF-6	Cutler-Hammer	SV9000		3/7/2001	CAB 066-MER	RF-6
	Unit Size:	50 HP				
			Comments:			
VFD RF-7	Cutler-Hammer	SV9000		3/7/2001	CAB 028-MER	RF-7
	Unit Size:	50 HP				
			Comments:			
	Edwards 200			3/7/2001	CAB - Room 217	Entire Bldg
Major Component:		**Fire Alarm System**				
	Unit Size:	2 Panels				
			Comments:			
FM-200 Microwave		Fike FM-200		3/7/2001	CAB Penthouse	Mircowave Tower Room
	Unit Size:					
			Comments:			
Dry-FSS	Viking			3/7/2001		Garage
Major Component:		**Dry-Automatic Fire Sprinkler System**				
	Unit Size:					
			Comments:			
Wet-AFSS				3/7/2001	CAB Throughout Bldg	Building
Major Component:		**Wet-Automatic Fire Sprinkler System**				
	Unit Size:					
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
ACCU-1	Liebert	DCSF083LP	95110390	3/7/2001	CAB Garage Entr. East	CRACU-1
Major Component:		**Air Cooled Condensing Units**				
	Unit Size:	3/4 HP, 3.5 Ton				
		Comments:				
ACCU-3	Liebert			3/7/2001	CAB Roof Board Room	CRACU-3
	Unit Size:	20 Ton				
		Comments:				
ACCU-4	Liebert			3/7/2001	CAB Roof Board Room	CRACU-4
	Unit Size:	30 Ton				
		Comments:				
ACCU-5	Trane	TTA120A400		3/7/2001	CAB Outside - South	AHU-4
	Unit Size:	1.0 HP, 10 Ton				
		Comments:				
ACCU-6	Trane	TTA180B400		3/7/2001	CAB Outside - South	AHU-8
	Unit Size:	1/2 HP, 15 Ton				
		Comments:				
ACCU-7	Trane	TTA180B4/TWE180B400		3/7/2001	CAB Outside - South	AHU-9
Major Component:		**Air Cooled Condensing Units**				
	Unit Size:	1/2 HP, 15 Ton				
		Comments:				
AHU-1	Trane	MCCA066UB00C0000U - K99M12303(		3/7/2001	CAB 016 MER	Area A/E - East
Major Component:		**Air Handling Unit (CW/HW)**				
	Unit Size:	31490 CFM				
		Comments: (12) 20 x 25 x2				
AHU-2	Trane	MCCA06UB00C000U - K99M123780		3/7/2001	CAB 077 MER	Area A/E - West
	Unit Size:	32620 CFM				
		Comments: (12) 20 x 24 x 12 / (12) 20 x 20 x 2				

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
AHU-3	Trane	MCCA010UB0000	C00U - K00A02285	3/7/2001	CAB 016 MER	Training Rooms Ground Floor
	Unit Size:	4300 CFM				
			Comments:			
AHU-5	Trane	MCCA17UB0000	C00U - K00A02323	3/7/2001	CAB 077 MER	Kitchen/ Cafeteria
	Unit Size:	8000 CFM				
			Comments: (8) 16 x 20 x 2 / (4) 16 x 25 x 2			
ACU-6	Trane	MCCA035UB0000	C00U - K00A02522	3/7/2001	CAB 066 MER	East Wing (B)
	Unit Size:	17500 CFM				
			Comments: (8) 16 x 25 x 2 / (12) 20 x 25 x 2 / (2) 20 x 24 x 2 / (6) 24 x 24 x 12			
AHU-7	Trane	MCCA035UB0000	C00U -K00A02533	3/7/2001	CAB 028 MER	West Wing ©
	Unit Size:	15640 CFM				
			Comments(6) 24 x 24 x 12 / (2) 24 x 20 x 12 / (8) 16 x 25 x 2 / (12) 20 x 25 x 2			
AHU-4	Trane	MCCA088FCC0B0000	A00 - K00A1274(	3/7/2001	CAB 077 MER	First Floor Call Center
	Unit Size:	3120 CFM				
			Comments: (2) 24x 20 x 12 / (4) 20 x 20 x 2			
AHU-10	Magic Aire	36-BHX-3	W001161236	3/7/2001	CAB Penthouse D	Microwave Room
Major Component:		**Air Handling Unit (Heat Pump)**				
	Unit Size:					
			Comments:			
AHU-4A	Magic Aire	36-BHX3	W001161245	3/7/2001	CAB 081 Computer/LAN	081 Computer/ LAN
	Unit Size:					
			Comments:			
AHU-8	Trane	TWE180B400CA	R124N486H	3/7/2001	CAB 077 MER	PBX
	Unit Size:	6000 CFM				
			Comments:			

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AHU-9	Trane	TWE180B400CA	R124JRU6H	3/7/2001	CAB 077 MER	PBX
	Unit Size:	6000 CFM				
			Comments:			
BLR1	Weben Jarco	ER 100 NG	279979-03	1/1/2003	CAB 081 - Mechanical Room	All hot water heating equipment
Major Component:		**Boiler**				
	Unit Size:	1,000,000 BTU				
			Comments:			
BLR2	Weben Jarco	ER 100 NG	279978-03	1/1/2003	CAB 081 - Mechanical Room	All hot water heating equipment
	Unit Size:	1,000,000 BTU				
			Comments:			
BLR3	Weben Jarco	ER 100 NG	279977-03	1/1/2003	CAB 081 - Mechanical Room	All hot water heating equipment
	Unit Size:	1,000,000 BTU				
			Comments:			
BLR4	Weben Jarco	ER 100 NG	279976-03	1/1/2003	CAB 081 - Mechanical Room	All hot water heating equipment
	Unit Size:	1,000,000 BTU				
			Comments:			
BLR5	Weben Jarco	ER 100 NG	279975-03	1/1/2003	CAB 081 - Mechanical Room	All hot water heating equipment
Major Component:		**Boiler**				
	Unit Size:	1,000,000 BTU				
			Comments:			
BLR6	Weben Jarco	ER 100 NG	279974-03	1/1/2003	CAB 081 - Mechanical Room	All hot water heating equipment
	Unit Size:	1,000,000 BTU				
			Comments:			
CUH-1 (127-1)	**Trane**	FFHB0801A-COC6-G		3/7/2001	CAB 127 - Vestibule	127 - Vestibule
Major Component:		**Cabinet Unit Heater**				
	Unit Size:					
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
CUH-1 (127-2)	**Trane**	FFHB0801A-COC6-G		3/7/2001	CAB 127 - Vestibule	127 - Vestibule
Major Component:		**Cabinet Unit Heater**				
Unit Size:						
			Comments:			
CUH-1 (Stair A) Gro	**Trane**	FFHB0801A-COC6-G		3/7/2001	CAB Stair A/ Ground Floor	
Unit Size:						
			Comments:			
CUH-1 (Stair B) Gro	**Trane**	FFHB0801A-COC6-G		3/7/2001	CAB Stair B / Ground	Stair B/ Ground Floor
Unit Size:						
			Comments:			
CUH-1 (Stair D) Gro	**Trane**	FFHB0801A-COC6-G		3/7/2001	CAB Stair D/ Ground Floor	
Unit Size:						
			Comments:			
CUH-1/Quantity 6	**Trane**	FFHB0801A-COC6-G		3/7/2001	CAB Varies	Varies
Unit Size:						
			Comments:			
CUH-2 (Stair A) 1st	**Trane**	FFHB0301A-COC6		3/7/2001	CAB Stair A / 1st Floor	Stair A
Major Component:		**Cabinet Unit Heater**				
Unit Size:						
			Comments:			
CUH-2 (Stair A) 2nd	**Trane**	FFHB0301A-COC6		3/7/2001	CAB Stair A / 2nd Floor	Stair A/2nd FL
Unit Size:						
			Comments:			
CUH-2 (Stair A) 3rd	**Trane**	FFHB0301A-COC6		3/7/2001	CAB Stair A / 3rd Floor	Stair A/3rd FL
Unit Size:						
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
CUH-2 (Stair B) 1st	**Trane**	FFHB0301A-COC6		3/7/2001	CAB Stair B / 1st Floor	Stair B/1st FL
Unit Size:			Comments:			
CUH-2 (Stair B) 2nd	**Trane**	FFHB0301A-COC6		3/7/2001	CAB Stair B / 2nd Floor	Stair B/2nd FL
Unit Size:			Comments:			
CUH-2 (Stair B) 3rd	**Trane**	FFHB0301A-COC6		3/7/2001	CAB Stair B / 3rd Floor	Stair B/3rd FL
Unit Size:			Comments:			
CUH-2 (Stair D) 1st	**Trane**	FFHB0301A-COC6		3/7/2001	CAB Stair D	Stair D
Unit Size:			Comments:			
CUH-2 (Stair D) 2nd	**Trane**	FFHB0301A-COC6		3/7/2001	CAB Stair D / 2nd Floor	Stair D/2nd FL
Unit Size:			Comments:			
CUH-2 (Stair D) 3rd	**Trane**	FFHB0301A-COC6		3/7/2001	CAB Stair D / 3rd Floor	Stair D/3rd FL
Major Component:		**Unit Cabinet Heater**				
Unit Size:			Comments:			
ChilWST				3/7/2001	CAB 081 - MER	Chilled Water System
Major Component:		**Chilled Water System - Treatment**				
Unit Size:			Comments:			
CH-1	Trane	CHHC1C2F0G0	UAOC6062-6061	3/7/2001	CAB 081 Mechanical Room	All cooling equipment
Major Component:		**Chiller-Rotary**				
Unit Size:		250 Ton				
			Comments:			

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CH-2	Trane	CHHC1C2F0G0		3/7/2001	CAB 081 Mechanical Room	All cooling equipment
Major Component:		**Chiller-Rotary**				
	Unit Size:	250 Ton				
			Comments:			
CRACU-1	Liebert	BF042A	326562-001	3/7/2001	CAB 082 - Electric Room	082-Elec Room
Major Component:		**Computer Room Air Conditioner**				
	Unit Size:	1800 CFM				
			Comments:			
CondWST				3/7/2001		Condenser Water System
Major Component:		**Condenser Water System - Treatment**				
	Unit Size:					
			Comments:			
CVB-006	Trane	VCC E03		3/7/2001	CAB 006 - Men's Locker	066 - Men's Locker
Major Component:		**Constant Air Vol. Box-Cooling Only**				
	Unit Size:	160 CFM				
			Comments:			
CVB-009	Trane	VCC E03		3/7/2001	CAB 009 - Women's Locker	009 - Women's Locker
	Unit Size:	160 CFM				
			Comments:			
C-1/Quanity-18	**Trane**	CONV RG		3/7/2001	CAB Varies	Varies
Major Component:		**Convectors**				
	Unit Size:					
			Comments:			
CT-1	Marley	CSS251D-LHX	10777	3/7/2001	CAB Outside Building E. Park/Lot	Condenser Water
Major Component:		**Cooling Tower**				
	Unit Size:	GOD 10684				
			Comments:			
CT-2	Marley	7VC284TTFN7233AAL	AV62032S	3/7/2001	CAB Outside Building E. Park/Lot	Condenser Water
	Unit Size:	1500GPM626L18MT				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
DHC-1				3/7/2001	CAB 060-Kitchen	060 Kitchen
Major Component:		**Duct Heating Coil-HW**				
	Unit Size:	1100 CFM/4.8 GPM				
			Comments:			
DHC-2				3/7/2001	CAB 058B-Serving	058B-Serving Area
	Unit Size:	2800 CFM/12.1 GPM				
			Comments:			
DHC-3				3/7/2001	CAB 067 Corridor	058A Cafeteria
	Unit Size:	4000 CFM/17.3 GPM				
			Comments:			
EF-8	Barry Blower	ESI445		3/7/2001	CAB 308 Men's Toilet	West Atrium Smoke Exhaust
Major Component:		**Exhaust Fan-Blower**				
	Unit Size:	23250 CFM				
			Comments:			
EF-9	Barry Blower	ESI445		3/7/2001	CAB 349 Men's Toilet	East Atrium Smoke Exhaust
	Unit Size:	23250 CFM				
			Comments:			
EF-1	Penn	SX125BC		3/7/2001	CAB 005-PSP	Ground "E" Toilet Showers
Major Component:		**Exhaust Fan-In Line**				
	Unit Size:	1/2 HP / 1870 CFM				
			Comments: Time Clock - DDC			
EF-10	Penn	SX225BC		3/7/2001	CAB 081-MER Mez	081-Refrig/ Vent
	Unit Size:	5 HP / 2900 CFM				
			Comments: Locat T-stat			
EF-11	Penn	SX105BC		3/7/2001	CAB 081-MER Mez	SubBasement Offices
	Unit Size:	1/2 HP / 1000 CFM				
			Comments: Local T-stat			

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EF-13	Penn	SX095BC		3/7/2001	CAB 081-MER Mez	Penthouse Ventilation
	Unit Size:	1/4 HP / 500 CFM				
		Comments: Local T-stat				
EF-15	Penn	SX095BC		3/7/2001	CAB 005-PSP	013-Storage
	Unit Size:	1/4 HP / 500 CFM				
		Comments: Local T-stat				
EF-16	Penn	SX105BC		3/7/2001	CAB 079-PBXLAN/WAN	080-Storage & Transformer
	Unit Size:	1/4 HP / 800 CFM				
		Comments: Time Clock-DDC				
EF-2	Penn	SX095BC		3/7/2001	CAB 006-Men's Locker room	007-Elevator Machine Room
	Unit Size:	1/4 Hp / 470 CFM				
		Comments: Local T-stat				
EF-3	Penn	SX115BC		3/7/2001	308-Men's Toilet	Area "E" West Toilet Rooms
	Unit Size:	1/3 HP / 1220 CFM				
		Comments: Time Clock-DDC				
EF-4	Penn	SX115BC		3/7/2001	CAB 349-Men's Toilet	Area "E" East Toilet Rooms
Major Component:		**Exhaust Fan-In Line**				
	Unit Size:	1/3 HP / 1220 CFM				
		Comments: Time Clock_DDC				
EF-5	Penn	SX095BC		3/7/2001	CAB Penhouse	329/330 Toilet Rooms
	Unit Size:	1/4 HP / 440 CFM				
		Comments:				
EF-6	Penn	SC205BC		3/7/2001	CAB 085-Service	085/083 Service/Garage
	Unit Size:	3/4 HP / 2640 CFM				
		Comments: CO and Local T-stat, 2 speed				

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EF-12	Penn	BLL30		3/7/2001	CAB 082-Electrical Room	082-Electrical Room
Major Component:		**Exhaust Fan-Prop**				
	Unit Size:	1/2 HP / 500 CFM				
			Comments: Local T-stat			
EF-14	Penn	BFH24		3/7/2001	CAB Electrical Room	Electrical Room
	Unit Size:	1 HP / 700 CFM				
			Comments: Local T-stat			
EF-17	Penn	BFH24		3/7/2001	CAB 077-MER	077-MER
	Unit Size:	3/4 HP / 2200 CFM				
			Comments: Local T-stat			
EF-18	Penn	BFH24		3/7/2001	CAB 016-MER	016-MER
	Unit Size:	1/2 HP / 1500 CFM				
			Comments: Local T-stat			
EF-7	Penn	BLL24		3/7/2001	CAB 085-Service	084-Emergency Gen
	Unit Size:	1/2 HP / 480 CFM				
			Comments: Local T-stat			
FCU1	Trane			3/7/2001	CAB Varies	Varies
Major Component:		**Fan Coil/Cabinet Unit Heater**				
	Unit Size:					
			Comments:			
FPB-018	Trane	VSVVE0304		3/7/2001	CAB 018-Ticket Production	018-Ticket Production
Major Component:		**Fan Powered Box w/HW**				
	Unit Size:	200 CFM				
			Comments:			
FPB-020	Trane	VSVVE0304		3/7/2001	CAB 020-Office	020/019 Office Storage
	Unit Size:	330 CFM				
			Comments:			

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FPB-021A	Trane	VSVVE1715		3/7/2001	CAB 021-Open Office	021-Open Office
Major Component:		**Fan Powered Box w/HW**				
	Unit Size:	1380 CFM				
			Comments:			
FPB-021B	Trane	VSVVE1715		3/7/2001	CAB 021-Open Office	021-Open Office
	Unit Size:	1380 CFM				
			Comments:			
FPB-021C	Trane	VSVVE1715		3/7/2001	CAB 021-Open Office	021-Open Office
	Unit Size:	1380 CFM				
			Comments:			
FPB-022	Trane	VSVVE0304		3/7/2001	CAB 022-Office	022-Office
	Unit Size:	200 CFM				
			Comments:			
FPB-025	Trane	VSVVE2440		3/7/2001	CAB 025-Bag Room	025-Bag Room
	Unit Size:	1060 CFM				
			Comments:			
FPB-030	Trane	VSVVE0304		3/7/2001	CAB 030-Training	030-Training
	Unit Size:	320 CFM				
			Comments:			
FPB-032	Trane	VSVVE0304		3/7/2001	CAB 032-Training	032-Training
	Unit Size:	250 CFM				
			Comments:			
FPB-033	Trane	VSVVE0304		3/7/2001	CAB 033-Training	033-Training
	Unit Size:	330 CFM				
			Comments:			

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FPB-035	Trane	VSVVE0304		3/7/2001	CAB 035-Training	035-Training
Major Component:		**Fan Powered Box w/HW**				
	Unit Size:	280 CFM				
			Comments:			
FPB-036	Trane	VSVVE0304		3/7/2001	CAB 036-Conference	036/034 Conf/Break Out
	Unit Size:	280 CFM				
			Comments:			
FPB-038	Trane	VSVVE0304		3/7/2001	CAB 038-Training	038-Training
	Unit Size:	330 CFM				
			Comments:			
FPB-040	Trane	VSVVE0304		3/7/2001	CAB 040-Conference	040/037 Conf/Break Out
	Unit Size:	280 CFM				
			Comments:			
FPB-041	Trane	VSVVE0304		3/7/2001	CAB 041-Training Prep	041-Training Prep
	Unit Size:	220 CFM				
			Comments:			
FPB-042	Trane	VSVVE0607		3/7/2001	CAB 042	042 Fitness Area
	Unit Size:	460 CFM				
			Comments:			
FPB-043	Trane	VSVVE0607		3/7/2001	CAB 043-Training	043-Training
	Unit Size:	420 CFM				
			Comments:			
FPB-048	Trane	VSVVE0304		3/7/2001	CAB 048-Office	048-Office
	Unit Size:	200 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
FPB-050	Trane	VSVVE1115		3/7/2001	CAB 050-Open Office	050-Open Office
Major Component:		**Fan Powered Box w/HW**				
	Unit Size:	1200 CFM				
			Comments:			
FPB-051	Trane	VSVVE0304		3/7/2001	CAB 051-Conference	051-Conference
	Unit Size:	200 CFM				
			Comments:			
FPB-069	Trane	VSVVE1111		3/7/2001	CAB 069-Open Office	069-Open Office
	Unit Size:	710 CFM				
			Comments:			
FPB-070	Trane	VSVVE0607		3/7/2001	CAB 070/068 Corridor	070/068 Corridor
	Unit Size:	400 CFM				
			Comments:			
FPB-071A	Trane	VSVVE2440		3/7/2001	CAB 071-Print Shop	071-Print Shop
	Unit Size:	2270 CFM				
			Comments:			
FPB-071B	Trane	VSVVE2440		3/7/2001	CAB 071-Print Shop	071-Print Shop
	Unit Size:	2270 CFM				
			Comments:			
FPB-071C	Trane	VSVVE2440		3/7/2001	CAB 071-Print Shop	071-Print Shop
	Unit Size:	2270 CFM				
			Comments:			
FPB-072	Trane	VSVVE0304		3/7/2001	CAB 072-Loading Dock	072-Loading Dock
	Unit Size:	200 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
FPB-074	Trane	VSVVE0304		3/7/2001	CAB 074-Supply/Office	074-Supply/ Office
Major Component:		**Fan Powered Box w/HW**				
	Unit Size:	300 CFM				
			Comments:			
FPB-075	Trane	VSVVE1111		3/7/2001	CAB 075-Receiving Stock	075-Receiving Stock
	Unit Size:	890 CFM				
			Comments:			
FPB-100	Trane	VSVVE1111		3/7/2001	CAB 100 Elevator Lobby	100-Elevator Lobby
	Unit Size:	790 CFM				
			Comments:			
FPB-101	Trane	VSVVE1720		3/7/2001	CAB Room 101	101 Conference
	Unit Size:	1470 CFM				
			Comments:			
FPB-107	Trane	VSVVE0607		3/7/2001	CAB 107-Break Out	107/109 Break Out
	Unit Size:	510 CFM				
			Comments:			
FPB-125	Trane	VSVVE0304		3/7/2001	CAB 125-Conference	125 Conference
	Unit Size:	200 CFM				
			Comments:			
FPB-128	Trane	VSVVE0304		3/7/2001	CAB 128-Fire Command	128 Fire Command
	Unit Size:	200 CFM				
			Comments:			
FPB-133	Trane	VSVVE0304		3/7/2001	CAB 133-Conference	133-Conference
	Unit Size:	330 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
FPB-135	Trane	VSVVE0304		3/7/2001	CAB 135-Conference	135-Conference
Major Component:		**Fan Powered Box w/HW**				
	Unit Size:	210 CFM				
			Comments:			
FPB-160	Trane	VSVVE0304		3/7/2001	CAB 160-Conference	160-Conference
	Unit Size:	200 CFM				
			Comments:			
FPB-200	Trane	VSVVE1111		3/7/2001	CAB 200-Elevator Lobby	200-Elevator Lobby
	Unit Size:	830 CFM				
			Comments:			
FPB-211	Trane	VSVVE0304		3/7/2001	CAB 211-Conference	211-Conference
	Unit Size:	280 CFM				
			Comments:			
FPB-215	Trane	VSVVE0304		3/7/2001	CAB 215-Break Out	215-Break Out
	Unit Size:	200 CFM				
			Comments:			
FPB-219	Trane	VSVVE0304		3/7/2001	CAB 219-Conference	219-Conference
	Unit Size:	200 CFM				
			Comments:			
FPB-220	Trane	VSVVE0304		3/7/2001	CAB 220-Conference	220-Conference
	Unit Size:	200 CFM				
			Comments:			
FPB-222	Trane	VSVVE0304		3/7/2001	CAB 222-Break Out	222-Break Out
	Unit Size:	200 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
FPB-300	Trane	VSVVE0607		3/7/2001	CAB 300-Elevator Lobby	300-Elevator Lobby
Major Component:		**Fan Powered Box w/HW**				
	Unit Size:	500 CFM				
			Comments:			
FPB-301	Trane	VSVVE0607		3/7/2001	CAB 301-Office	301-Office
	Unit Size:	520 CFM				
			Comments:			
FPB-303	Trane	VSVVE0607		3/7/2001	CAB 303-Office	303-Office
	Unit Size:	340 CFM				
			Comments:			
FPB-304	Trane	VSVVE0607		3/7/2001	CAB 304-Office	304-Office
	Unit Size:	340 CFM				
			Comments:			
FPB-305	Trane	VSVVE0604		3/7/2001	CAB 305-Office	305-Office
	Unit Size:	340 CFM				
			Comments:			
FPB-306	Trane	VSVVE0607		3/7/2001	CAB 306-Office	306-Office
	Unit Size:	340 CFM				
			Comments:			
FPB-307	Trane	VSVVE0304		3/7/2001	CAB 307-Coffee/Copy	307-Coffee/ Copy
	Unit Size:	280 CFM				
			Comments:			
FPB-316	Trane	VSVVE0304		3/7/2001	CAB 316-Conference	316-Conference
	Unit Size:	300 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
FPB-333	Trane	VSVVE0304		3/7/2001	CAB 333-Conference	333-Conference
Major Component:		**Fan Powered Box w/HW**				
	Unit Size:	280 CFM				
			Comments:			
FPB-334	Trane	VSVVVE0304		3/7/2001	CAB 334-Conference	334-Conference
	Unit Size:	300 CFM				
			Comments:			
FPB-336	Trane	VSVVE0304		3/7/2001	CAB 336-Conference	336-Conference
	Unit Size:	240 CFM				
			Comments:			
FPB-350	Trane	VSVVE0304		3/7/2001	CAB 350-Coffee/Copy	350-Coffee/ Copy
	Unit Size:	250 CFM				
			Comments:			
FPB-351	Trane	VSVVE0607		3/7/2001	CAB 351-Office	351-Office
	Unit Size:	340 CFM				
			Comments:			
FPB-352	Trane	VSVVE0607		3/7/2001	CAB 352-Office	352-Office
	Unit Size:	340 CFM				
			Comments:			
FPB-163	Trane	VSEE1730		3/7/2001	CAB 163-CAC	163-CAC
Major Component:		**Fan Powered Box w/EH**				
	Unit Size:	1840 CFM				
			Comments:			
FPB-165	Trane	VCEE0607		3/7/2001	CAB 165-ITS	165-ITS
	Unit Size:	510 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
FPB-166	Trane	VSEE0607		3/7/2001	CAB 166-Network Control	166-Network Control
Major Component:		**Fan Powered Box w/EH**				
	Unit Size:	420 CFM				
			Comments:			
FPB-353	Trane	VSEE1715		3/7/2001	CAB 353-Small Board Room	353-Small Board Room
	Unit Size:	1440 CFM				
			Comments:			
FPB-358	Trane	VSEF1406		3/7/2001	CAB 358-Large Board Room	358-Large Board Room
	Unit Size:	2200 CFM				
			Comments:			
FT-2 Ft (Quantity 9)	**Trane**			3/7/2001	CAB Varies	Varies
Major Component:		**Finned Tube Radiation**				
	Unit Size:					
			Comments:			
FT-5 Ft (Quantity 13)	**Trane**			3/7/2001	CAB Varies	Varies
	Unit Size:					
			Comments:			
FT-7 Ft (Quantity 5)	**Trane**			3/7/2001	CAB Varies	Varies
Major Component:		**Finned Tube Radiation**				
	Unit Size:					
			Comments:			
FT-9 Ft (Quantity 57)	**Trane**			3/7/2001	CAB Varies	Varies
	Unit Size:					
			Comments:			
GFS-1	Advantage Cont.	AGF-1		1/26/2004	CAB 089-MER	Main Entry De-Icing Sys HW
Major Component:		**Glycol Feed System - De-Icing**				
	Unit Size:	30 Gal -1 1/2 GPM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
GRV-1	Penn			3/7/2001	CAB Roof Above 066	AHU-6
Major Component:		**Gravity Roof Ventilator**				
	Unit Size:	84" x 20"				
			Comments: Relief			
GRV-2	Penn			3/7/2001	CAB Roof Above 028	AHU-7
	Unit Size:	84" x 20"				
			Comments: Relief			
HHWT				3/7/2001	CAB 081-MER	Hot Water
Major Component:		**Heating Hot Water-Treatment**				System
	Unit Size:	950 GPM				
			Comments:			
HUH1/Quantity-18	**Trane**	UHSA038WXDAAC-000A		3/7/2001	CAB Varies	Varies
Major Component:						
	Unit Size:	1/20 HP				
			Comments:			
HUH2/Quantity-4	**Trane**	UHSA090WZDAAE-000A		3/7/2001	CAB Varies	Varies
	Unit Size:	1/8 HP				
			Comments:			
KHE-1	Penn			3/7/2001	CAB Roof Above 066	Kitchen Hood
Major Component:		**Kitchen Hood Exhaust**				#1/ 060 Kitchen
	Unit Size:	2000 CFM				
			Comments: Local switch at hood			
KHE-2	Penn	FX183HFT		3/7/2001	CAB Roof Above 066	Kitchen Hood #2/ 058B Serv Area
	Unit Size:	3 HP / 3760 CFM				
			Comments: Local switch at hood			
303A	Johnson	PE-FEU-DSA111B		3/7/2001	CAB 303A	303A
Major Component:		**Personal Environment Module**				
	Unit Size:					
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
PRV-1	Penn	DX08B		3/7/2001	CAB Roof Above	Dishwasher
Major Component:		**Power Roof Ventilator-Centr. Dome**			066 MER	Hood
	Unit Size:	1/4 HP / 500 CFM				
			Comments: Local switch at hood			
PRV-2	Penn	DX11B		3/7/2001	CAB Roof Above 066	062/063 Toilet Rooms
	Unit Size:	1/4 HP / 950 CFM				
			Comments: Time Clock-DDC			
PRV-3	Penn	DX16B		3/7/2001	CAB Roof Above 066	060-Kitchen
	Unit Size:	1/2 HP / 2370 CFM				
			Comments: Time Clock-DDC			
PRV-4	Penn	DX08B		3/7/2001	CAB Roof Above 066	066-MER
	Unit Size:	1/4 HP / 550 CFM				
			Comments: Local T-stat			
PRV-5	Penn	DX08B		3/7/2001	CAB Roof Above 028	028-MER
	Unit Size:	1/4 HP / 480 CFM				
			Comments: Local T-stat			
PRV-8	Penn	DX08B		3/7/2001	CAB Roof Above 028	86
Major Component:		**Power Roof Ventilator-Centr. Dome**				
	Unit Size:	1/4 HP / 570 CFM				
			Comments: Local T-stat			
PRV-9	Penn	DX12B		3/7/2001	CAB Roof Above 066	071- Print Shop
	Unit Size:	1/3 HP / 1700 CFM				
			Comments: Time Clock-DDC			
PRV-6	Penn	HS48		3/7/2001	CAB Roof Above 356	Atrium Smoke
Major Component:		**Power Roof Ventilator-Vane Axial**				Evac
	Unit Size:	7.5 HP / 23250 CFM				
			Comments: Fire Alarm/Emergency Power			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
PRV-7	Penn	HS48		3/7/2001	CAB Roof Above 356	Atrium Smoke Evac
Major Component:		**Power Roof Ventilator-Vane Axial**				
	Unit Size:	7.5 HP / 23250 CFM				
		Comments: Fire Alarm/Emergency Power				
P-1	Taco	Taco 1024		3/7/2001	CAB 089-MER	Condenser Water
Major Component:		**Pump-Floor Mounted**				
	Unit Size:	15 HP / 750 GPM				
		Comments: Duty				
P-15	Taco	Taco 1030		3/7/2001	CAB 089-MER	Secondary HW
	Unit Size:	7.5 HP / 375 GPM				
		Comments: Duty				
P-16	Taco	Taco 1030		3/7/2001	CAB 089-MER	Secondary HW
	Unit Size:	7.5 HP / 375 GPM				
		Comments: Stand by				
P-2	Taco	Taco 1024		3/7/2001	CAB 089-MER	Condenser Water
	Unit Size:	15 HP / 750 GPM				
		Comments: Stand by				
P-3	Taco	Taco 1024		3/7/2001	CAB 089-MER	Condenser Water
Major Component:		**Pump-Floor Mounted**				
	Unit Size:	15 HP / 750 GPM				
		Comments: Duty				
P-4	Taco	Taco 1224		3/7/2001	CAB 089-MER	CHI-Primary CHW
	Unit Size:	7.5 HP / 600 GPM				
		Comments: Duty				
P-5	Taco	Taco 1224		3/7/2001	CAB 089-MER	Chiller Primary
	Unit Size:	7.5 HP / 600 GPM				
		Comments: Stand by				

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
P-6	Taco	Taco 1224		3/7/2001	CAB 089-MER	CH2-Primary
Major Component:		**Pump-Floor Mounted**				CHW
	Unit Size:	7.5 HP / 600 GPM				
			Comments: Duty			
P-7	Taco	Taco 1530		3/7/2001	CAB 089-MER	Secondary CHW
	Unit Size:	20 HP / 950 GPM				
			Comments: Duty			
P-8	Taco	Taco 1530		3/7/2001	CAB 089-MER	Secondary CHW
	Unit Size:	20 HP / 950 GPM				
			Comments: Stand by			
P-10	Taco	Taco 1635		3/7/2001	CAB 089-MER	B-02/Primary
Major Component:		**Pump-In Line**				HW
	Unit Size:	.5 HP / 70 GPM				
			Comments: Stand by			
P-11	Taco	Taco 1635		3/7/2001	CAB 089-MER	B-3 Primary HW
	Unit Size:	.5 HP / 70 GPM				
			Comments:			
P-12	Taco	Taco 1635		3/7/2001	CAB 089-MER	B-4 Primary HW
Major Component:		**Pump-In Line**				
	Unit Size:	.5 HP / 70 GPM				
			Comments:			
P-13	Taco	Taco 1635		3/7/2001	CAB 089-MER	B-5 Primary HW
	Unit Size:	.5 HP / 70 GPM				
			Comments:			
P-14	Taco	Taco 1635		3/7/2001	CAB 089-MER	B-6 Primary HW
	Unit Size:	.5 HP / 70 GPM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
P-17	PACO	PACO 1250-1		3/7/2001	CAB 081-MER	East Perimeter HW
Major Component:		**Pump-In Line**				
	Unit Size:	1/2 HP / 13 GPM				
			Comments:			
P-18	PACO	PACO 1250-1		3/7/2001	CAB 081-MER	South Perimeter HW
	Unit Size:	1 HP / 20 GPM				
			Comments:			
P-19	PACO	PACO 1250-1		3/7/2001	CAB 081-MER	North Perimeter HW
	Unit Size:	3/4 HP / 38 GPM				
			Comments:			
P-20	PACO	PACO 1250-1		3/7/2001	CAB 081-MER	West Perimeter HW
	Unit Size:	1/2 HP / 13 GPM				
			Comments:			
P-21	Bell & Gossett	Series 90 Model 1-1/2A		3/7/2001	CAB 081-MER	Main Entry De-Icing Sys. HW
	Unit Size:	3/4 HP / 18 GPM				
			Comments:			
P-22	Bell & Gossett	Series 90 Model 1-1/2A		3/7/2001	CAB 081-MER	Main Entry De-Icing Sys. HW
Major Component:		**Pump-In Line**				
	Unit Size:	1/2 HP / 16 GPM				
			Comments:			
P-9	Taco	Taco 1635		3/7/2001	CAB 089-MER	B-1/Primary HW
	Unit Size:	.5 HP / 70 GPM				
			Comments: Duty			
UH1	Trane			3/7/2001	CAB Varies	Varies
Major Component:		**Unit Heater-Electric**				
	Unit Size:					
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
VVB-046	Trane	VCC E11		3/7/2001	CAB 046-Corridor	046-Corridor
Major Component:		**VAV Box w/HW**				
	Unit Size:	620 CFM				
			Comments:			
VVB-078	Trane	VCC E11		3/7/2001	CAB 078-PC Setup	078-PC Setup
	Unit Size:	670 CFM				
			Comments:			
VVB-113	Trane	VCVV E03		3/7/2001	CAB 113-Corridor	113-Corridor
	Unit Size:	100 CFM				
			Comments:			
VVB-124	Trane	VCVV E03		3/7/2001	CAB 124-Office	124-Office
	Unit Size:	170 CFM				
			Comments:			
VVB-137	Trane	VCVV E03		3/7/2001	CAB 137-Office	137-Office
	Unit Size:	170 CFM				
			Comments:			
VVB-146	Trane	VCVV E03		3/7/2001	CAB 146-Corridor	146-Corridor
	Unit Size:	130 CFM				
			Comments:			
VVB-209	Trane	VCVV E06		3/7/2001	CAB 209-Office	209-Office
	Unit Size:	170 CFM				
			Comments:			
VVB-223	Trane	VCVV E03		3/7/2001	CAB 223-Office	223-Office
	Unit Size:	170 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
VVB-229	Trane	VCVV E06		3/7/2001	CAB 229-Office	229-Office
Major Component:		**VAV Box w/HW**				
	Unit Size:	170 CFM				
			Comments:			
VVB-314	Trane	VCVV E03		3/7/2001	CAB 314-Office	314-Office
	Unit Size:	190 CFM				
			Comments:			
VVB-343	Trane	VCVV E03		3/7/2001	CAB 343-Office	343-Office
	Unit Size:	180 CFM				
			Comments:			
VVB-344	Trane	VCVV E03		3/7/2001	CAB 344-Office	344-Office
	Unit Size:	100 CFM				
			Comments:			
VVB-345	Trane	VCVV E03		3/7/2001	CAB 345-Office	345-Office
	Unit Size:	120 CFM				
			Comments:			
VVB-023	Trane	VCC E06		3/7/2001	CAB 023-Inter Review	023-Inter Review
Major Component:		**VAV Box-Cooling Only**				
	Unit Size:					
			Comments:			
VVB-024	Trane	VCC E03		3/7/2001	CAB 024-Batch Tickets	024-Batch Tickets
	Unit Size:	200 CFM				
			Comments:			
VVB-031	Trane	VCC E03		3/7/2001	CAB 031-Kitchen	031-Kitchen
	Unit Size:	140 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
VVB-039	Trane	VCC E06		3/7/2001	CAB 039-Corridor	039-Corridor
Major Component:		**VAV Box-Cooling Only**				
	Unit Size:	400 CFM				
			Comments:			
VVB-044	Trane	VCC E03		3/7/2001	CAB 044-Copy	044-Copy
	Unit Size:	90 CFM				
			Comments:			
VVB-045	Trane	VCC E03		3/7/2001	CAB 045-Copy Center	045-Copy Center
	Unit Size:	180 CFM				
			Comments:			
VVB-052	Trane	VCC E03		3/7/2001	CAB 052-Office	052-Office
	Unit Size:	100 CFM				
			Comments:			
VVB-053	Trane	VCC E03		3/7/2001	CAB 053-Office	053-Office
	Unit Size:	100 CFM				
			Comments:			
VVB-054	Trane	VCC E03		3/7/2001	CAB 054-Office	054-Office
	Unit Size:	130 CFM				
			Comments:			
VVB-055	Trane	VCC E03		3/7/2001	CAB 055-Office	055-Office
	Unit Size:	160 CFM				
			Comments:			
VVB-057	Trane	VCC E03		3/7/2001	CAB 057-Office	057-Office
	Unit Size:	120 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
VVB-061	Trane	VCC E03		3/7/2001	CAB 061-Office	061-Office
Major Component:		**VAV Box-Cooling Only**				
	Unit Size:	100 CFM				
			Comments:			
VVB-073	Trane	VCC E03		3/7/2001	CAB 073-Mail Room	073-Mail Room
	Unit Size:	200 CFM				
			Comments:			
VVB-108	Trane	VCC E03		3/7/2011 3/7/2001	CAB 108-Office	108-Office
	Unit Size:	90CFM				
			Comments:			
VVB-110	Trane	VCC E03		3/7/2001	CAB 110-Office	110-Office
	Unit Size:	110 CFM				
			Comments:			
VVB-112	Trane	VCC E03		3/7/2001	CAB 112-Office	112-Office
	Unit Size:	110 CFM				
			Comments:			
VVB-114	Trane	VCC E03		3/7/2001	CAB 114-Plotter	114-Plotter
	Unit Size:	140 CFM				
			Comments:			
VVB-115	Trane	VCC E03		3/7/2001	CAB 115-Office	115-Office
	Unit Size:	110 CFM				
			Comments:			
VVB-117	Trane	VCC E03		3/7/2001	CAB 117-Copy	117-Copy
	Unit Size:	140 CFM				
			Comments:			

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Preventive Maintenance Equipment Inventory - Contractor's Responsibility

HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
VVB-120	Trane	VCC E03		3/7/2001	CAB 120-Copy	120-Copy
Major Component:		**VAV Box-Cooling Only**				
	Unit Size:	90 CFM				
			Comments:			
VVB-121	Trane	VCC E03		3/7/2001	CAB 121-Office	121-Office
	Unit Size:	110 CFM				
			Comments:			
VVB-122	Trane	VCC E03		3/7/2001	CAB 122-Storage	122-Storage
	Unit Size:	150 CFM				
			Comments:			
VVB-130	Trane	VCC E03		3/7/2001	CAB 130-Office	130-Office
	Unit Size:	80 CFM				
			Comments:			
VVB-132	Trane	VCC E06		3/7/2001	CAB 132-Entry Lobby	132-Entry Lobby
	Unit Size:	460 CFM				
			Comments:			
VVB-140	Trane	VCC E03		3/7/2001	CAB 140-Office	140-Office
	Unit Size:	150 CFM				
			Comments:			
VVB-141	Trane	VCC E03		3/7/2001	CAB 141-Copy	141-Copy
	Unit Size:	140 CFM				
			Comments:			
VVB-143	Trane	VCC E03		3/7/2001	CAB 143-File	143-File
	Unit Size:	150 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
VVB-145	Trane	VCC E03		3/7/2001	CAB 145-Break Out	145-Break Out
Major Component:		**VAV Box-Cooling Only**				
	Unit Size:	100 CFM				
			Comments:			
VVB-147	Trane	VCC E03		3/7/2001	CAB 147-Office	147-Office
	Unit Size:	110 CFM				
			Comments:			
VVB-148	Trane	VCC E03		3/7/2001	CAB 148-Office	148-Office
	Unit Size:	110 CFM				
			Comments:			
VVB-161	Trane	VCC E03		3/7/2001	CAB 161 & 162	161 & 162
	Unit Size:	170 CFM				
			Comments:			
VVB-164	Trane	VCC E03		3/7/2001	CAB 164-Quiet Area	164-Quiet Area
	Unit Size:	180 CFM				
			Comments:			
VVB-205	Trane	VCC E06		3/7/2001	CAB 205-Atrium	205-Atrium
	Unit Size:					
			Comments:			
VVB-207	Trane	VCC E03		3/7/2001	CAB 207-Copy	207-Copy
	Unit Size:	140 CFM				
			Comments:			
VVB-212	Trane	VCC E03		3/7/2001	CAB 212-Office	212-Office
	Unit Size:	110 CFM				
			Comments:			

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Preventive Maintenance Equipment Inventory - Contractor's Responsibility

HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
VVB-213	Trane	VCC E03		3/7/2001	CAB 213-Storage	213-Storage
Major Component:		**VAV Box-Cooling Only**				
	Unit Size:	150 CFM				
			Comments:			
VVB-214	Trane	VCC E03		3/7/2001	CAB 214-Office	214-Office
	Unit Size:	170 CFM				
			Comments:			
VVB-216	Trane	VCC E06		3/7/2001	CAB 216-Lobby	216-Lobby
	Unit Size:	310 CFM				
			Comments:			
VVB-224	Trane	VCC E03		3/7/2001	CAB 224-Office	224-Office
	Unit Size:	110 CFM				
			Comments:			
VVB-225	Trane	VCC E03		3/7/2001	CAB 225-Office	225-Office
	Unit Size:	110 CFM				
			Comments:			
VVB-226	Trane	VCC E03		3/7/2001	CAB 226-Office	226-Office
	Unit Size:	110 CFM				
			Comments:			
VVB-231	Trane	VCC E03		3/7/2001	CAB 231-Copy	231-Copy
	Unit Size:	140 CFM				
			Comments:			
VVB-237	Trane	VCC E06		3/7/2001	CAB 237- Atrium	237-Atrium
	Unit Size:	550 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
VVB-302	Trane	VCC E06		3/7/2001	CAB 302-Open Office	302-Open
Major Component:		**VAV Box-Cooling Only**				Office
	Unit Size:					
			Comments:			
VVB-311	Trane	VCC E03		3/7/2001	CAB 311-Copy	311-Copy
	Unit Size:	140 CFM				
			Comments:			
VVB-313	Trane	VCC E06		3/7/2001	CAB 313-Office	313-Office
	Unit Size:	390 CFM				
			Comments:			
VVB-315	Trane	VCC E03		3/7/2001	CAB 315-Office	315-Office
	Unit Size:	100 CFM				
			Comments:			
VVB-317	Trane	VCC E03		3/7/2001	CAB 317-Office	317-Office
	Unit Size:	90 CFM				
			Comments:			
VVB-318	Trane	VCC E03		3/7/2001	CAB 318-Office	318-Office
	Unit Size:	130 CFM				
			Comments:			
VVB-322	Trane	VCC E06		3/7/2001	CAB 322-Office	322-Office
	Unit Size:	250 CFM				
			Comments:			
VVB-323	Trane	VCC E06		3/7/2001	CAB 323-Files	323-Files
	Unit Size:	260 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
VVB-326	Trane	VCC E03		3/7/2001	CAB 326-Storage	326-Storage
Major Component:		**VAV Box-Cooling Only**				
	Unit Size:	110 CFM				
			Comments:			
VVB-327	Trane	VCC E03		3/7/2001	CAB 327-Office	327-Office
	Unit Size:	130 CFM				
			Comments:			
VVB-332A	Trane	VCC E03		3/7/2001	CAB 322A-Corridor	322A-Corridor
	Unit Size:	230 CFM				
			Comments:			
VVB-337	Trane	VCC E06		3/7/2001	CAB 337,340 Storage	337,340 Storage
	Unit Size:	320 CFM				
			Comments:			
VVB-338	Trane	VCC E03		3/7/2001	CAB 338-Copy	338-Copy
	Unit Size:	80 CFM				
			Comments:			
VVB-339	Trane	VCC E03		3/7/2001	CAB 339-Office	339-Office
	Unit Size:	130 CFM				
			Comments:			
VVB-346	Trane	VCC E03		3/7/2001	CAB 346-Copy	346-Copy
	Unit Size:	140 CFM				
			Comments:			
VVB-355	Trane	VCC E06		3/7/2001	CAB 356-Lobby	356-Lobby
	Unit Size:	260 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
VVB-359	Trane	VCC E03		3/7/2001	CAB 359-Kitchen	359-Kitchen
Major Component:		**VAV Box-Cooling Only**				
	Unit Size:	200 CFM				
			Comments:			
DHWSS				3/7/2001	CAB 089 MER	Domestic
Major Component:		**DHW Storage System**				Hot Water
	Unit Size:	750 Gal				
			Comments:			
DWH-1	Lochinvar	AWN286PM	H14H20307877	8/23/2014	CAB 089 MER	Hot Water
Major Component:		**Domestic Hot Water Boiler**				System
	Unit Size:	285,000 BTU HR				
			Comments:			
BFP-1	Watts	909 QT		3/7/2001	CAB 081 MER	Building
Major Component:		**Domestic Water System**				
	Unit Size:	1 1/2"				
			Comments:			
DWC7	EBCO	P8AM		3/7/2001	CAB 003 Foyer	Ground Floor
Major Component:		**Drinking Water Coolers**				A & E
	Unit Size:	8 GPH-100V				
			Comments:			
RO-004	PurcEarth Techologies			3/7/2001	CAB 004-Kitchenette	Rm 004
Major Component:		**Reverse Osmosis System**				
	Unit Size:	50 Gal. @ Day				
			Comments:			
RO-031	PurcEarth Techologies			3/7/2001	CAB 031-Kitchenette	Rm 031
	Unit Size:	50 Gal. @ Day				
			Comments:			
RO-117	PurcEarth Techologies			3/7/2001	CAB 117-Coffee/Copy	Rm 117
	Unit Size:	50 Gal. @ Day				
			Comments:			

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Preventive Maintenance Equipment Inventory - Contractor's Responsibility

HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
RO-120	PurcEarth Techologies			3/7/2001	CAB 120-Coffee/Copy	Rm 120
Major Component:		**Reverse Osmosis System**				
	Unit Size:	50 Gal. @ Day				
			Comments:			
RO-162	PurcEarth Techologies			3/7/2001	CAB 126-Lunch Room	Rm 162
	Unit Size:	50 Gal. @ Day				
			Comments:			
RO-207	PurcEarth Techologies			3/7/2001	CAB 207-Coffee/Copy	Rm 207
	Unit Size:	50 Gal. @ Day				
			Comments:			
RO-231	PurcEarth Techologies			3/7/2001	CAB 231-Coffee/Copy	Rm 231
	Unit Size:	50 Gal. @ Day				
			Comments:			
RO-307	PurcEarth Techologies			3/7/2001	CAB 307-Coffee/Copy	Rm 307
	Unit Size:	50 Gal. @ Day				
			Comments:			
RO-311	PurcEarth Techologies			3/7/2001	CAB 311-Coffee-Copy	Rm 311
	Unit Size:	50 Gal. @ Day				
			Comments:			
RO-346	PurcEarth Techologies			3/7/2001	CAB 346-Coffee/Copy	Rm 346
	Unit Size:	50 Gal. @ Day				
			Comments:			
RO-350	PurcEarth Techologies			3/7/2001	CAB 350-Coffee/Copy	Rm 350
	Unit Size:	50 Gal. @ Day				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
RO-359	PurcEarth Techologies			3/7/2001	CAB 359-Coffee/Copy	Rm 359
Major Component:		**Reverse Osmosis System**				
	Unit Size:	50 Gal. @ Day				
			Comments:			
	Unit Size:					
			Comments:			
	Unit Size:					
			Comments:			
	Unit Size:					
			Comments:			
	Unit Size:					
			Comments:			
	Unit Size:					
			Comments: Heat Pump			
	Unit Size:					
			Comments:			
	Unit Size:					

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
	EST	Quick Start		3/7/2001	CAB Annex	
Major Component:		**Fire Panels**				
	Unit Size:					
			Comments:			
	Trane	TWA120A300DA	R465174AY	3/7/2001	CAB Annex	
	Unit Size:					
			Comments: Heat Pump			
	Unit Size:					
			Comments:			
	Unit Size:					
			Comments:			
	Unit Size:					
			Comments: Heat Pump			
	Unit Size:					
			Comments:			
	Unit Size:					
			Comments:			
	Unit Size:					
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
V-D1	Price SDV			1/21/2009	TIP	Ex. Office 111
Major Component:		**VAV Box**				
	Unit Size:	200 CFM				
			Comments:			
V-D2	Price SDV			1/21/2009	TIP	Files 112
	Unit Size:	1350 CFM				
			Comments:			
V-D3	Price SDV			1/21/2009	TIP	Ex. Office 110
	Unit Size:	300 CFM				
			Comments:			
V-D4	Price SDV			1/21/2009	TIP	Unassign 132
	Unit Size:	300 CFM				
			Comments:			
V-D5	Price SDV			1/21/2009	TIP	Storage 106
	Unit Size:	150 CFM				
			Comments:			
V-D6	Price SDV			1/21/2009	TIP	Control Rm 105
	Unit Size:	300 CFM				
			Comments:			
V-D7	Price SDV			1/21/2009	TIP	Office 102
	Unit Size:	800 CFM				
			Comments:			
V-D8	Price SDV			1/21/2009	TIP	Office 102
	Unit Size:	800 CFM				
			Comments:			

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Preventive Maintenance Equipment Inventory - Contractor's Responsibility

HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
V-D9	Price SDV			1/21/2009	TIP	Staging 101
Major Component:		**VAV Box**				
	Unit Size:	1500 CFM				
			Comments:			
V-D10	Price SDV			1/21/2009	TIP	Corridor 141
	Unit Size:	500 CFM				
			Comments:			
V-D11	Price SDV			1/21/2009	TIP	Corridor 116
	Unit Size:	400 CFM				
			Comments:			
V-D12	Price SDV			1/21/2009	TIP	Printer Rm 115
	Unit Size:	300 CFM				
			Comments:			
V-D13	Price SDV			1/21/2009	TIP	Corridor 128
	Unit Size:	500 CFM				
			Comments:			
V-D14	Price SDV			1/21/2009	TIP	Elec Rm 130
	Unit Size:	300 CFM				
			Comments:			
V-D15	Price SDV			1/21/2009	TIP	Elec Rm 131
	Unit Size:	300 CFM				
			Comments:			
V-D16	Price SDV			1/21/2009	TIP	AHU Rm 104
	Unit Size:	500 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
V-D16	Price SDV			1/21/2009	TIP	AHU Rm 104
Major Component:		**VAV Box**				
	Unit Size:	500 CFM				
			Comments:			
V-S1	Price SDV			1/21/2009	TIP	PBX Batt 114
	Unit Size:	3400 CFM				
			Comments:			
V-S2A	Price SDV			1/21/2009	TIP	UPS Rm A118
	Unit Size:	3500 CFM				
			Comments:			
V-S2B	Price SDV			1/21/2009	TIP	UPS Rm A118
	Unit Size:	3500 CFM				
			Comments:			
V-S3	Price SDV			1/21/2009	TIP	Corridor 119
	Unit Size:	500 CFM				
			Comments:			
V-S4A	Price SDV			1/21/2009	TIP	Batt Rm A120
	Unit Size:	3450 CFM				
			Comments:			
V-S4B	Price SDV			1/21/2009	TIP	Batt Rm A120
	Unit Size:	3450 CFM				
			Comments:			
V-S5	Price SDV			1/21/2009	TIP	Switchgear 123
	Unit Size:	1600 CFM				
			Comments:			

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Preventive Maintenance Equipment Inventory - Contractor's Responsibility

HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
V-S6	Price SDV			1/21/2009	TIP	AHU Rm 124
Major Component:		**VAV Box**				
	Unit Size:	800 CFM				
			Comments:			
V-N1	Price SDV			1/21/2009	TIP	Pump Rm 100
	Unit Size:	2000 CFM				
			Comments:			
V-N2A	Price SDV			1/21/2009	TIP	UPS Rm B133
	Unit Size:	3500 CFM				
			Comments:			
V-N2B	Price SDV			1/21/2009	TIP	UPS Rm B133
	Unit Size:	3500 CFM				
			Comments:			
V-N3A	Price SDV			1/21/2009	TIP	Batt Rm B138
	Unit Size:	3450 CFM				
			Comments:			
V-N3B	Price SDV			1/21/2009	TIP	Batt Rm B138
	Unit Size:	3450 CFM				
			Comments:			
V-N4	Price SDV			1/21/2009	TIP	Switch Gear 139
	Unit Size:	1600 CFM				
			Comments:			
V-N5	Price SDV			1/21/2009	TIP	Chiller Rm B140
	Unit Size:	3800 CFM				
			Comments:			

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Preventive Maintenance Equipment Inventory - Contractor's Responsibility

HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
V-N6	Price SDV			1/21/2009	TIP	Chiller Rm
Major Component:		**VAV Box**				B140
	Unit Size:	3800 CFM				
			Comments:			
V-N7	Price SDV			1/21/2009	TIP	Boiler Rm 143
	Unit Size:	1800 CFM				
			Comments:			
V-W1	Price SDV			1/21/2009	TIP	AHU Rm 145
	Unit Size:	1200 CFM				
			Comments:			
V-W2	Price SDV			1/21/2009	TIP	Elec Rm 121
	Unit Size:	750 CFM				
			Comments:			
V-E1	Price SDV			1/21/2009	TIP	Custodial
	Unit Size:	1400 CFM				
			Comments:			
V-E2	Price SDV			1/21/2009	TIP	Corridor
	Unit Size:	1500 CFM				
			Comments:			
V-E3	Price SDV			1/21/2009	TIP	Dmarc 136
	Unit Size:	800 CFM				
			Comments:			
V-E4	Price SDV			1/21/2009	TIP	Dmarc 125
	Unit Size:	800 CFM				
			Comments:			

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Preventive Maintenance Equipment Inventory - Contractor's Responsibility

HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
V-E5	Price SDV			1/21/2009	TIP	AHU Rm 144
Major Component:		**VAV Box**				
	Unit Size:	1200 CFM				
			Comments:			
V-E6	Price SDV			1/21/2009	TIP	Elec Rm 137
	Unit Size:	750 CFM				
			Comments:			
V-E7	Price SDV			1/21/2009	TIP	Office Area 146
	Unit Size:	560 CFM				
			Comments:			
V-E8	Price SDV			1/21/2009	TIP	Office Area 146
	Unit Size:	880 CFM				
			Comments:			
V-E9	Price SDV			1/21/2009	TIP	Office Area 146
	Unit Size:	560 CFM				
			Comments:			
V-E10	Price SDV			1/21/2009	TIP	Office Area 146
	Unit Size:	880 CFM				
			Comments:			
V-E11	Price SDV			1/21/2009	TIP	Office Area 146
	Unit Size:	520 CFM				
			Comments:			
V-E12	Price SDV			1/21/2009	TIP	Office Area 146
	Unit Size:	880 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
V-E13	Price SDV			1/21/2009	TIP	1DF 149
Major Component:		**VAV Box**				
	Unit Size:	800 CFM				
			Comments:			
V-E14	Price SDV			1/21/2009	TIP	Office Area 146
	Unit Size:	520 CFM				
			Comments:			
V-E15	Price SDV			1/21/2009	TIP	Office Area 146
	Unit Size:	520 CFM				
			Comments:			
V-E16	Price SDV			1/21/2009	TIP	Office Area 146
	Unit Size:	1060 CFM				
			Comments:			
V-E17	Price SDV			1/21/2009	TIP	Office Area 146
	Unit Size:	1320 CFM				
			Comments:			
V-E18	Price SDV			1/21/2009	TIP	Office Area 146
	Unit Size:	1020 CFM				
			Comments:			
V-E19	Price SDV			1/21/2009	TIP	Office Area 146
	Unit Size:	1020 CFM				
			Comments:			
V-E20	Price SDV			1/21/2009	TIP	Office Area 146
	Unit Size:	1305 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
V-E21	Price SDV			1/21/2009	TIP	Conf/Tra 147
Major Component:		**VAV Box**				
	Unit Size:	1440 CFM				
			Comments:			
V-E22	Price SDV			1/21/2009	TIP	Break Rm 1500
	Unit Size:	495 CFM				
			Comments:			
V-E23	Price SDV			1/21/2009	TIP	Conf 155
	Unit Size:	280 CFM				
			Comments:			
V-E24	Price SDV			1/21/2009	TIP	Conf 154
	Unit Size:	210 CFM				
			Comments:			
V-E25	Price SDV			1/21/2009	TIP	Conf 152
	Unit Size:	165 CFM				
			Comments:			
V-E26	Price SDV			1/21/2009	TIP	Conf 153
	Unit Size:	265 CFM				
			Comments:			
V-E27	Price SDV			1/21/2009	TIP	Exc Conf 156
	Unit Size:	630 CFM				
			Comments:			
V-E28	Price SDV			1/21/2009	TIP	Supply
	Unit Size:	165 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
V-E29	Price SDV			1/21/2009	TIP	Office Area 146
Major Component:		**VAV Box**				
	Unit Size:	1225 CFM				
			Comments:			
V-E30	Price SDV			1/21/2009	TIP	Office 161
	Unit Size:	250 CFM				
			Comments:			
V-E31	Price SDV			1/21/2009	TIP	Recp/Wait 165
	Unit Size:	940 CFM				
			Comments:			
V-E32	Price SDV			1/21/2009	TIP	Office 146
	Unit Size:	1060 CFM				
			Comments:			
V-E33	Price SDV			1/21/2009	TIP	Dir Office 162
	Unit Size:	365 CFM				
			Comments:			
AHU-1	York Solution -25			1/21/2009	TIP	Area C Mech/Elec
Major Component:		**Air Handler Unit - Hot Water Coil**				
	Unit Size:	25,000 CFM				
			Comments:			
AHU-2	York Solution -25			1/21/2009	TIP	Area C Mech/Elec
	Unit Size:	25,000 CFM				
			Comments:			
AHU-3	York Solution-20			1/21/2009	TIP	Area D Mech/Elec
	Unit Size:	20,000 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
AHU-4	York Solution-20			1/21/2009	TIP	Area D
Major Component:		**Air Handler Unit- Hot Water Coil**				Mech/Elec
	Unit Size:	20,000 CFM				
			Comments:			
AHU-5	York Solution-9			1/21/2009	TIP	Area C Data Center Offices
	Unit Size:					
			Comments:			
AHU-8	York Solution-30			1/21/2009	TIP	Area E&F
Major Component:						East Offices
	Unit Size:	27,000 CFM				
			Comments:			
AHU-9	York Solution-30			1/21/2009	TIP	Area E&F East Offices
	Unit Size:	27,000 CFM				
			Comments:			
EF-1	Greenheck	GB-360-7		1/21/2009	TIP	Battery Room
Major Component:		**Fan Schedule**				
	Unit Size:	7000 CFM				
			Comments:			
EF-2	Greenheck	GB-360-7		1/21/2009	TIP	Battery Room
	Unit Size:	7000 CFM				
			Comments:			
EF-3	Greenheck	GB-220-4		1/21/2009	TIP	Battery Room
	Unit Size:	3500 CFM				
			Comments:			
EF-4	Greenheck	GB-121-4		1/21/2009	TIP	Bathroom
	Unit Size:	750 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
EF-5	Greenheck	GB-121-4		1/21/2009	TIP	Bathroom
Major Component:		**Fan Schedule**				
	Unit Size:	750 CFM				
			Comments:			
EF-6	Greenheck	GB-131-4		1/21/2009	TIP	Bathroom
	Unit Size:	1200 CFM				
			Comments:			
EF-7	Greenheck	GB-131-4		1/21/2009	TIP	Bathroom
	Unit Size:	1500 CFM				
			Comments:			
EF-8	Greenheck	GB-161-5		1/21/2009	TIP	Refrig Exhaust
	Unit Size:	2000 CFM				
			Comments:			
EF-9	Greenheck	GB-161-5		1/21/2009	TIP	Refrig Exhaust
	Unit Size:	2000 CFM				
			Comments:			
EF-10	Greenheck	GB-360-4		1/21/2009	TIP	Battery Room
	Unit Size:	7000 CFM				
			Comments:			
EF-11	Greenheck	GB-360-4		1/21/2009	TIP	Battery Room
	Unit Size:	7000 CFM				
			Comments:			
EF-12	Greenheck	GB-420-15		1/21/2009	TIP	Data Center
	Unit Size:	9000 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
EF-13	Greenheck	GB-260-7		1/21/2009	TIP	PBX Room
Major Component:		**Fan Schedule**				
	Unit Size:	4000 CFM				
			Comments:			
EF-14	Greenheck	GB-330-10		1/21/2009	TIP	Standby Generator
	Unit Size:	6000 CFM				
			Comments:			
EF-15	Greenheck	GB131-4		1/21/2009	TIP	Life Safety Generator
	Unit Size:	1000 CFM				
			Comments:			
CRAC-A1	Liebert	FH600C		1/21/2009	TIP	Data Center
Major Component:		**Computer Room AC Unit Schedule**				
	Unit Size:	17,100 CFM				
			Comments:			
CRAC-A2	Liebert	FH600C		1/21/2009	TIP	Data Center
	Unit Size:	17,100 CFM				
			Comments: Standby			
CRAC-B1	Liebert	FH600C		1/21/2009	TIP	Data Center
	Unit Size:	17,100 CFM				
			Comments:			
CRAC-B2	Liebert	FH600C		1/21/2009	TIP	Data Center
	Unit Size:	17,100 CFM				
			Comments: Standby			
CRAC-C1	Liebert	FH376C		1/21/2009	TIP	PBX Room
	Unit Size:	9100 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
CRAC-C2	Liebert	FH376C		1/21/2009	TIP	PBX Room
Major Component:		**Computer Room AC Unit Schedule**				
	Unit Size:	9100 CFM				
			Comments: Standby			
CRAC-D1	Liebert	FH376C		1/21/2009	TIP	PBX Room
	Unit Size:	9100 CFM				
			Comments: Standby			
CRAC-E1	Liebert	BU102C		1/21/2009	TIP	Printer Room
	Unit Size:	2800 CFM				
			Comments:			
CRAC-E2	Liebert	BU102C		1/21/2009	TIP	Printer Room
	Unit Size:	2800 CFM				
			Comments: Standby			
HX-A1	Bell Gossett	Model GPX		1/21/2009	TIP	A Side
Major Component:		**Plate and Fram Heat Exchanger Schedule**				Chilled Water
	Unit Size:	399 Tons				
			Comments:			
HX-B1	Bell Gossett	Model GPX		1/21/2009	TIP	B Side Chilled Water
	Unit Size:	399 Tons				
			Comments:			
B-1	Patterson Kelley	N2000-M		1/21/2009	TIP	Heating Water
Major Component:		**Gas Fired Hot Water Boiler Schedule**				
	Unit Size:	2000 MBH				
			Comments:			
B-2	Patterson Kelley	N2000-M		1/21/2009	TIP	Heating Water
	Unit Size:	2000 MBH				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
B-3	Patterson Kelley	N2000-M		1/21/2009	TIP	Heating Water
Major Component:		**Gas Fired Hot Water Boiler Schedule**				
	Unit Size:	2000 MBH				
			Comments:			
B-4	Patterson Kelley	N-2000M		1/21/2009	TIP	Heating Water
	Unit Size:	2000 MBH				
			Comments: Standby			
FOT-1	Xerxes			1/21/2009	TIP	Chilled Water
Major Component:		**Storage Tank Schedule**				
	Unit Size:	10,000 GAL				
			Comments:			
FOT-2	Xerxes			1/21/2009	TIP	Chilled Water
	Unit Size:	10,000 GAL				
			Comments:			
ET-A1	Bell & Gossett	B-300		1/21/2009	TIP	Chilled Water
Major Component:		**Expansion Tank Schedule**				
	Unit Size:	80 GAL				
			Comments:			
ET-B1	Bell & Gossett	B-300		1/21/2009	TIP	Chilled Water
	Unit Size:	80 GAL				
			Comments:			
ET-1	Bell & Gossett	B-1400		1/21/2009	TIP	Heating Water
	Unit Size:	370 GAL				
			Comments:			
SS-A1	Lakos	HTX-0130		1/21/2009	TIP	Condenser
Major Component:		**Solids Separator System Schedule**				Water
	Unit Size:	150 GPM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
SS-B1	Lakos	HTX-0130		1/21/2009	TIP	Condenser
Major Component:		**Solids Separator System Schedule**				Water
	Unit Size:	150 GPM				
			Comments:			
WF-A1	Filterite	6CMC2		1/21/2009	TIP	
Major Component:		**Water Filter Schedule**				Chilled Water
	Unit Size:	50 GPM				
			Comments:			
WF-B1	Filterite	6CMC2		1/21/2009	TIP	Chilled Water
	Unit Size:	50 GPM				
			Comments:			
WF-1	Filterite	6CMC2		1/21/2009	TIP	Heating Water
	Unit Size:	35 GPM				
			Comments:			
CH-A1	York	TCWL0132SE46		1/21/2009	TIP	Scroll Chiller
Major Component:		**Water Colled Chiller Schedule**				
	Unit Size:	133 Tons				
			Comments:			
CH-A2	York	TCWL0132SE46		1/21/2009	TIP	Scroll Chiller
	Unit Size:	133 Tons				
			Comments: Standby			
CH-B1	York	TCWL0132SE46		1/21/2009	TIP	Scroll Chiller
	Unit Size:	133 Tons				
			Comments:			
CH-B2	York	TCWL0132SE46		1/21/2009	TIP	Scroll Chiller
	Unit Size:	133 Tons				
			Comments: Standby			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
CT-A1	Evapco at 19-76			1/21/2009	TIP	Condenser Water
Major Component:		**Induced Draft Cooling Tower Schedule**				
	Unit Size:	133 Ton				
			Comments:			
CT-A2	Evapco at 19-76			1/21/2009	TIP	Condenser Water
	Unit Size:	133 Ton				
			Comments: Standby			
CT-B1	Evapco at 19-76			1/21/2009	TIP	Condenser Water
	Unit Size:	133 Ton				
			Comments:			
CT-B2	Evapco at 19-76			1/21/2009	TIP	Condenser Water
	Unit Size:	133 Ton				
			Comments: Standby			
P-A1	Bell & Gossett	1510-3AC		1/21/2009	TIP	Primary CHW
Major Component:		**Pump Schedule**				
	Unit Size:	200 GPM				
			Comments:			
P-A2	Bell & Gossett	1510-3AC		1/21/2009	TIP	Primary CHW
	Unit Size:	200 GPM				
			Comments: Standby			
P-A5	Bell & Gossett	1510-2 1/2 BB		1/21/2009	TIP	Secondary CHW
	Unit Size:	200 GPM				
			Comments:			
P-A6	Bell & Gossett	1510-2 1/2 BB		1/21/2009	TIP	Primary CHW
	Unit Size:	200 GPM				
			Comments: Standby			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
P-A9	Bell & Gossett	1510-3BC		1/21/2009	TIP	Primary CHW
Major Component:		**Pump Schedule**				
	Unit Size:	399 GPM				
			Comments:			
P-A10	Bell & Gossett	1510-3BC		1/21/2009	TIP	Secondary CHW
	Unit Size:	399 GPM				
			Comments: Standby			
P-A13	Bell & Gossett	1510-3BC		1/21/2009	TIP	Primary CHW
	Unit Size:	150 GPM				
			Comments:			
P-B1	Bell & Gossett	1510-3AC		1/21/2009	TIP	Primary CHW
	Unit Size:	300 GPM				
			Comments:			
P-B2	Bell & Gossett	1510-3AC		1/21/2009	TIP	Secondary CHW
	Unit Size:	300 GPM				
			Comments: Standby			
P-B5	Bell & Gossett	1510-2 1/2 BB		1/21/2009	TIP	Primary CHW
	Unit Size:	200 GPM				
			Comments:			
P-B6	Bell & Gossett	1510-2 1/2 BB		1/21/2009	TIP	Primary CHW
	Unit Size:	200 GPM				
			Comments: Standby			
P-B9	Bell & Gossett	1510-3BC		1/21/2009	TIP	Primary CHW
	Unit Size:	399 GPM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
P-B10	Bell & Gossett	1510-3BC		1/21/2009	TIP	Primary CHW
Major Component:		**Pump Schedule**				
	Unit Size:	399 GPM				
			Comments: Standby			
P-B13	Bell & Gossett	1510-3BC		1/21/2009	TIP	Primary CHW
	Unit Size:	150 GPM				
			Comments:			
P-1	Bell & Gossett	80-4x4x7		1/21/2009	TIP	Primary CHW
	Unit Size:	115 GPM				
			Comments:			
P-2	Bell & Gossett	80-4x4x7		1/21/2009	TIP	Primary CHW
	Unit Size:	115 GPM				
			Comments:			
P-3	Bell & Gossett	80-4x4x7		1/21/2009	TIP	Primary CHW
	Unit Size:	115 GPM				
			Comments:			
P-4	Bell & Gossett	80-4x4x7		1/21/2009	TIP	Secondary CHW
	Unit Size:	115 GPM				
			Comments: Standby			
P-5	Bell & Gossett	1510-2BC		1/21/2009	TIP	Primary CHW
	Unit Size:	115 GPM				
			Comments:			
P-6	Bell & Gossett	1510-2BC		1/21/2009	TIP	Primary CHW
	Unit Size:	115 GPM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
P-7	Bell & Gossett	1510-2BC		1/21/2009	TIP	Primary CHW
Major Component:		**Pump Schedule**				
	Unit Size:	115 GPM				
			Comments:			
P-8	Bell & Gossett	1510-2BC		1/21/2009	TIP	Primary CHW
	Unit Size:	115 GPM				
			Comments: Standby			
FCU-01	Carrier	42 BHC 10		1/21/2009	TIP	DMARC 136
Major Component:		**Fan Coil Unit**				
	Unit Size:	1000 CFM				
			Comments:			
FCU-02	Carrier	42 BHC 10		1/21/2009	TIP	DMARC 125
	Unit Size:	1000 CFM				
			Comments:			
FCU-03	Carrier	42 BHC 10		1/21/2009	TIP	IDF 149
	Unit Size:	1000 CFM				
			Comments:			
UH-1 Thru UH-4	Vulcan	HV-108		1/21/2009	TIP	Type: Horiz
Major Component:		**Hot Water Unit Heater**				
	Unit Size:	210 CFM				
			Comments:			
UH-5 Thru UH-9	Vulcan	HV-125A		1/21/2009	TIP	Type: Horiz
	Unit Size:	580 CFM				
			Comments:			
UH-10 & UH-11	Vulcan	HV-108A		1/21/2009	TIP	Type: Horiz
	Unit Size:	210 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
UH-12 & UH-13	Vulcan	HV-108A		1/21/2009	TIP	Type: Horiz
Major Component:		**Hot Water Unit Heater**				
	Unit Size:	580 CFM				
			Comments:			
GV-1	Greenheck FHI			1/21/2009	TIP - Roof	
Major Component:		**Gravity Ventilator Schedule**				
	Unit Size:	17,600 CFM				
			Comments: Intake-E Generator			
GV-2	Greenheck FHI			1/21/2009	TIP - Roof	
	Unit Size:	64,600 CFM				
			Comments: Intake-S Generator			
GV-3	Greenheck FHI			1/21/2009	TIP - Roof	
	Unit Size:	64,600 CFM				
			Comments: Intake-S Generator			
GV-4	Greenheck FHI			1/21/2009	TIP - Roof	
	Unit Size:	64,600 CFM				
			Comments: Intake-S Generator			
GV-5	Greenheck FHI			1/21/2009	TIP - Roof	
	Unit Size:	64,600 CFM				
			Comments: Intake-S Generator			
GV-6	Greenheck FHI			1/21/2009	TIP - Roof	
	Unit Size:	30,000 CFM				
			Comments: Intake AHU-7			
GV-7	Greenheck FHI			1/21/2009	TIP - Roof	
	Unit Size:	30,000 CFM				
			Comments: Intake AHU-6			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
GV-8	Greenheck FHR			1/21/2009	TIP - Roof	
Major Component:		**Gravity Ventilator Schedule**				
	Unit Size:	23,000 CFM				
			Comments: Relief Office			
GV-9	Greenheck FHR			1/21/2009	TIP - Roof	
	Unit Size:	23,000 CFM				
			Comments: Relief Office			
GV-10	Greenheck FHR			1/21/2009	TIP - Roof	
	Unit Size:	8,000 CFM				
			Comments: Relief Office			
GV-11	Greenheck FHI			1/21/2009	TIP - Roof	
	Unit Size:	8,000 CFM				
			Comments: Intake AHU-5			
GV-12	Greenheck FHI			1/21/2009	TIP - Roof	
	Unit Size:	25,000 CFM				
			Comments: Intake AHU-1			
GV-13	Greenheck FHI			1/21/2009	TIP - Roof	
	Unit Size:	25,000 CFM				
			Comments: Intake AHU-2			
GV-14	Greenheck FHI			1/21/2009	TIP - Roof	
	Unit Size:	27,000 CFM				
			Comments: Intake AHU-8			
GV-15	Greenheck FHI			1/21/2009	TIP - Roof	
	Unit Size:	27,000 CFM				
			Comments: Intake AHU-9			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
GV-16	Greenheck FHR			1/21/2009	TIP - Roof	
Major Component:		**Gravity Ventilator Schedule**				
	Unit Size:	20,000 CFM				
			Comments: Relief Office			
GV-17	Greenheck FHR			1/21/2009	TIP - Roof	
	Unit Size:	20,000 CFM				
			Comments: Relief Office			
GV-18	Greenheck FHR			1/21/2009	TIP - Roof	
	Unit Size:	8,600 CFM				
			Comments: Relief UPS "B" & Swichgear Room B			
GV-19	Greenheck FHR			1/21/2009	TIP - Roof	
	Unit Size:	5,700 CFM				
			Comments: Relief Chiller Room B			
GV-20	Greenheck FHR			1/21/2009	TIP - Roof	
	Unit Size:	5,700 CFM				
			Comments: Relief Chiller Room A			
GV-21	Greenheck FHR			1/21/2009	TIP - Roof	
	Unit Size:	7,000 CFM				
			Comments: Relief UPS "A"			
GV-22	Greenheck FHR			1/21/2009	TIP - Roof	
	Unit Size:	1,600 CFM				
			Comments: Relief Switchgear Room A			
	Liebert	LPL 1150	093030100886L30	1/21/2009	TIP	Data 126
Major Component:		**Leak Detection**				Floor and Roof
	Unit Size:					
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
	Liebert	LPL 1150	093030100886L30	1/21/2009	TIP	PBX
Major Component:		**Leak Detection**				
	Unit Size:					
			Comments:			
	Eaton-Cutler Hammer			1/21/2009	TIP 123	Bldg High
Major Component:		**Man Normal Switch Gear A Side**				Voltage Power
	Unit Size:	400 AMP				
			Comments:			
	Cummins	PCIL2005G		1/21/2009	TIP 118	Emergency
Major Component:		**Emergency Paralling Switchgear**				Power
	Unit Size:	4000 AMP				
			Comments:			
	Cummins	PCIL20056-7464		1/21/2009	TIP 118	
Major Component:		**Digital Mater Control**				
	Unit Size:					
			Comments:			
	Cummins	BTPCE 1415032		1/21/2009	TIP 118	
Major Component:		**Automatic Transfer Switch 2**				
	Unit Size:	1200 AMP				
			Comments:			
	Cummins	BTPCC 1327734		1/21/2009	TIP 133	
Major Component:		**Automatic Transfer Switch**				
	Unit Size:	400 AMP				
	Cummins	MPC 0003777		1/21/2009	TIP 118	
Major Component:		**Mechanical Switch Board A**				
	Unit Size:	1200 AMP				
			Comments: 1200 A with metering cabinet, output board and tie breaker			
	Cummins			1/21/2009	TIP 118	
Major Component:		**N/E Switch Gear A**				
	Unit Size:	1600 AMP				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
	Cummins	BTTCF 1513029		1/21/2009	TIP 118	
Major Component:		**Automatic Transfer Switch**				
	Unit Size:	1600 AMP				
			Comments:			
	Cummins	K090065367		1/21/2009	TIP Rm 122	
Major Component:		**Power Command Transfer Switch**				
	Unit Size:	400 AMP				
			Comments:			
	Cummins	DSHAC B72029	K090065966	1/21/2009	TIP Rm 122	Life Safety
Major Component:		**Generator**				
	Unit Size:	250 KVA				
			Comments:			
	Cummins	1000.ODQFAD	L090068317	1/21/2009	TIP Rm 117	E.R. Power
	Unit Size:	1000 KW				
			Comments:			
	Cummins	1000.ODQFAD	L090068318	1/21/2009	TIP Rm 117	E.R. Power
	Unit Size:	1000 KW				
			Comments:			
	Tara Mount Day	Tank UTRS-150		1/21/2009	TIP RM 122	
Major Component:		**Veeder Rout System**				
	Unit Size:					
			Comments:			
Quantity 1	Tara Mount Day	Tank UTRS-150		1/21/2009	TIP RM 117	
Major Component:		**Veeder Rout System**				
	Unit Size:					
			Comments:			
		TLS-300C		1/21/2009	TIP Rm 117	
Major Component:		**Veeder Rout Model**				
	Unit Size:					
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
		TLS-300C		1/21/2009	TIP Rm 122	
Major Component:		**Veeder Rout Model**				
	Unit Size:					
			Comments:			
UPS	MGE EPS 7000	E7UPS500 #661924	R09-10090	6/1/2010	Room 133	TIP Data Center
Major Component:		**UPS**				
	Unit Size:	500 KVA				
			Comments:			
UPS	MGE EPS 7000	E7UPS500 #661924	R09-10091	5/17/2010	Room 133	TIP Data Center
	Unit Size:	500 KVA				
			Comments:			
UPS	MGE EPS 7000	E7UPS500 #661930	R09-10092	6/8/2010	Room 118	TIP Data Center
	Unit Size:	500 KVA				
			Comments:			
UPS	MGE EPS 7000	E7UPS500 #661930	R09-10093	5/17/2010	Room 118	TIP Data Center
	Unit Size:	500 KVA				
			Comments:			
UPS	MGE EPS 7000			1/21/2009	TIP - Rm 133	
	Unit Size:	500 KVA				
			Comments:			
FPC	MGE Power Management	PMM225 #663101	L09-10741	4/19/2010	Data 126	TIP Data Center
Major Component:		**FPC**				
	Unit Size:					
			Comments:			
FPC	MGE Power Management	PMM225 #663101	L09-10742	5/4/2010	Data 126	TIP Data Center
	Unit Size:					
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
FPC	MGE Power Management	PMM225 #663101	L09-10743	5/12/2010	Data 127	TIP Data Center
	Unit Size:					
			Comments:			
FPC	MGE Power Management	PMM225 #663105	L09-10744	5/10/2010	Data 126	TIP Data Center
Major Component:		**FPC**				
	Unit Size:					
			Comments:			
FPC	MGE Power Management	PMM225 #663103	L09-10745	5/3/2010	Data 126	TIP Data Center
	Unit Size:					
			Comments:			
FPC	MGE Power Management	PMM225 #663125	L09-10746	5/3/2010	PBX 127	TIP Data Center
	Unit Size:					
			Comments:			
FPC	MGE Power Management	PMM225 #663125	L09-10747	5/3/2010	Data 126	TIP Data Center
	Unit Size:					
			Comments:			
PDU	MGE Remote Power Mge	PMR1S #660101	M09-10289	5/4/2010	Data 126	TIP Data Center
Major Component:		**PDU**				
	Unit Size:					
			Comments:			
PDU	MGE Remote Power Mge	PMR24S #660089	M09-10279	5/3/2010	Data 126	TIP Data Center
	Unit Size:					
			Comments:			
PDU	MGE Remote Power Mge	PMR24S #660089	M09-10280	5/3/2010	Data 126	TIP Data Center
	Unit Size:					
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
PDU	MGE Remote Power Mge	PMR24S #66089	M09-10281	5/3/2010	Data 126	TIP Data Center
	Unit Size:					
			Comments:			
PDU	MGE Remote Power Mge	PMR24S #66089	M09-10282	5/3/2010	Data 126	TIP Data Center
Major Component:		**PDU**				
	Unit Size:					
			Comments:			
PDU	MGE Remote Power Mge	PMR24S #66093	M09-10283	5/3/2010	Data 126	TIP Data Center
	Unit Size:					
			Comments:			
PDU	MGE Remote Power Mge	PMR24S #66093	M09-10284	5/4/2010	PBX 127	TIP Data Center
	Unit Size:					
			Comments:			
PDU	MGE Remote Power Mge	PMR24S #66093	M09-10285	5/3/2010	Data 126	TIP Data Center
	Unit Size:					
			Comments:			
PDU	MGE Remote Power Mge	PMR24S #66097	M09-10286	5/3/2010	Data 126	TIP Data Center
	Unit Size:					
			Comments:			
PDU	MGE Remote Power Mge	PMR24S #66097	M09-10287	5/3/2010	Data 126	TIP Data Center
	Unit Size:					
			Comments:			
PDU	MGE Remote Power Mge	PMR24S #66097	M09-10288	5/3/2010	PBX 127	TIP Data Center
	Unit Size:					
			Comments:			

PENNSYLVANIA TURNPIKE COMMISSION

Preventive Maintenance Equipment Inventory - Contractor's Responsibility

HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
CHU-1	Vulcan	W-1070		1/21/2009	TIP	
Major Component:		**CHU-1**				
	Unit Size:	1/15 HP				
			Comments:			
CHU-2	Vulcan	W-1070		1/21/2009	TIP	
Major Component:		**CHU-2**				
	Unit Size:	1/15 HP				
			Comments:			
CHU-3	Vulcan	W-1070		1/21/2009	TIP	
Major Component:		**CHU-3**				
	Unit Size:	1/15 HP				
			Comments:			
CHU-4	Vulcan	W-1070		1/21/2009	TIP	
Major Component:		**CHU-4**				
	Unit Size:	1/15 HP				
			Comments:			
CHU-5	Vulcan	W-1070		1/21/2009	TIP	
Major Component:		**CHU-5**				
	Unit Size:	1/15 HP				
			Comments:			
CHU-6	Vulcan	W-1070		1/21/2009	TIP	
Major Component:		**CHU-6**				
	Unit Size:	1/15 HP				
			Comments:			
CHU-7	Vulcan	W-1070		1/21/2009	TIP	
Major Component:		**CHU-7**				
	Unit Size:	1/15 HP				
			Comments:			
CHU-8	Vulcan	W-1070		1/21/2009	TIP	
Major Component:		**CHU-8**				
	Unit Size:	1/15 HP				
			Comments:			

PENNSYLVANIA TURNPIKE COMMISSION

Preventive Maintenance Equipment Inventory - Contractor's Responsibility

HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
CHU-9	Vulcan	W-1070		1/21/2009	TIP	
Major Component:		**CHU-9**				
	Unit Size:	1/15 HP				
			Comments:			
	Softswitch 128	XPS24FT		1/21/2009	TIP	Room 123
Major Component:		**Lutron Panel**				
	Unit Size:					
			Comments:			
	Softswitch 128	XPS24FT		1/21/2009	TIP	Room 121
Major Component:		**Lutron Panel**				
	Unit Size:					
			Comments:			
	Softswitch 128	XPS24FT		1/21/2009	TIP	Room 139
Major Component:		**Lutron Panel**				
	Unit Size:					
			Comments:			
	Softswitch 128	XPS24FT		1/21/2009	TIP	Room 137
Major Component:		**Lutron Panel**				
	Unit Size:					
			Comments:			
	Eaton/Cutler Hammer			1/21/2009	TIP	
Major Component:		**Mechanical Switchboard B**				
	Unit Size:	120UAMT				
			Comments: Metering Cabinet and Outboard			
	Eaton/Cutler Hammer			1/21/2009	TIP	Room 139
Major Component:		**ATS-A Mechanical B**				
	Unit Size:	1200 AMP				
			Comments:			
	Eaton			1/21/2009	TIP	Room 139
Major Component:		**Main Switchgear B**				
	Unit Size:	4000 AMP				
			Comments:			

PENNSYLVANIA TURNPIKE COMMISSION

Preventive Maintenance Equipment Inventory - Contractor's Responsibility

HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
	Eaton			1/21/2009	TIP	Room 138
Major Component:		**UPS-Output Board**				
	Unit Size:					
			Comments:			
	Eaton			1/21/2009	TIP	Room 138
Major Component:		**N/E Switchgear B**				
	Unit Size:	1600 AMP				
			Comments:			
				1/21/2009	TIP	Room 138
Major Component:		**ATS N/E B**				
	Unit Size:	1600 AMP				
			Comments:			
	Cutler Hammer			1/21/2009	TIP	Room 123
Major Component:		**Transformer Dry Type**				
	Unit Size:	150 KVA				
			Comments:			
	Cutler Hammer			1/21/2009	TIP	Room 123
	Unit Size:	30 KVA				
			Comments:			
	Cutler Hammer			1/21/2009	TIP	Room 123
	Unit Size:	45 KVA				
			Comments:			
	Faraday	MPC7-ENC-B		1/21/2009	TIP	Room 123
Major Component:		**Fire Panel**				
	Unit Size:					
			Comments:			
	Weil	W-1624-13			TIP	Rain Water Harvest
Major Component:		**Submersible Pump**				System
	Unit Size:	5 HP				
			Comments:			

PENNSYLVANIA TURNPIKE COMMISSION

Preventive Maintenance Equipment Inventory - Contractor's Responsibility

HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
	Weil	W-1624-13			TIP	Rain Water Harvest System
Major Component:		**Submersible Pump**				
	Unit Size:	5 HP				
			Comments:			
	Weil	W-1624-13			TIP	Rain Water Harvest System
	Unit Size:	5 HP				
			Comments:			
	Weil	W-1624-13			TIP	Rain Water Harvest System
Major Component:						
	Unit Size:	5 HP				
			Comments:			
	Unit Size:					
			Comments:			
	Unit Size:					
			Comments:			
	Unit Size:					
			Comments:			
	Unit Size:					
			Comments:			
	Unit Size:					
			Comments:			

Turnpike Industrial Park (TIP) Garage
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PENNSYLVANIA TURNPIKE COMMISSION

Preventive Maintenance Equipment Inventory - Contractor's Responsibility

HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
	Cook	0765D32994-01			TIP Garage	
Major Component:		**Exhaust Fan**				
	Unit Size:					
			Comments:			
	Cook	0765D32994-02			TIP Garage	
	Unit Size:					
			Comments:			
	Cutler Hammer				TIP Garage	
Major Component:		**Electric Panel**				
	Unit Size:	225 AMP				
			Comments: 120 - 240 Volt			
	Unit Size:					
			Comments:			
	Unit Size:					
			Comments:			
	Unit Size:					
			Comments:			
	Unit Size:					
			Comments:			
	Unit Size:					
			Comments:			

Warehouse - Steelton
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PENNSYLVANIA TURNPIKE COMMISSION

Preventive Maintenance Equipment Inventory - Contractor's Responsibility

HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix II Area Served
	York	H1RA048506D	WBMM005118	Unkown	Warehouse	
Major Component:		**HVAC Units**			2715 S. Front St	
					Steelton, PA	
	Unit Size:	4 Ton				
			Comments: Forced Air - Natural gas			
	York	H1RA048506D	WBMM023911	Unkown	Warehouse	
					2715 S. Front St	
					Steelton, PA	
	Unit Size:	4 Ton				
			Comments: Forced Air - Natural gas			
	York	H1RA048506D	WBMM005017	Unknown	Warehouse	
					2715 S. Front St	
					Steelton, PA	
	Unit Size:	4 Ton				
			Comments: Forced Air - Natural gas			
	York	H1RA048506D	WBMM005015	Unknown	Warehouse	
					2715 S. Front St	
					Steelton, PA	
	Unit Size:	4 Ton				
			Comments: Forced Air - Natural gas			
	York	ZF120N20N2AAA5A	N1N1457985	2013	Warehouse	
	(New unit)				2715 S. Front St	
					Steelton, PA	
	Unit Size:					
			Comments:			
	York	ZF102N5N2AAA5A	N1L1354957	2013	Warehouse	
	(New unit)				2715 S. Front St	
					Steelton, PA	
	Unit Size:					
			Comments:			
	York	D3NZ024N05606A	(S)N1C1866516	2013	Warehouse	
	(New unit)				2715 S. Front St	
					Steelton, PA	
	Unit Size:					
			Comments:			
Notifier by Honeywell		NFW2-100		Unknown	Warehouse	Warehouse
Major Component:		**Fire Panel**			2715 S. Front St	
					Steelton, PA	
	Unit Size:					
			Comments: Fire Warden 100-2			

Appendix H – Preventive Maintenance (PM) Task List

Pennsylvania Turnpike Commission

Preventive Maintenance Task List - Contractor's Responsibility

ATC - Automatic Temperature Controls

		Frequency:	Other Comments:	Other Notes:
AHU App. Specific Control -	Verify that AHU is being controlled at the appropriate values. Change one setpoint value; verify smooth transition and stable control at the new set point. Return set point to original value. Repeat for each additional control loop, if any. Verify that controlled valves and dampers will stroke fully in both directions, sealing tightly where appropriate. Verify the proper operation of critical control processes and points associated with this unit. Make adjustments if necessary. This should be done semi-annually - once during early heating and cooling seasons.	6 Months	Contractor should record final operating values / setpoints - furnish to Owner.	
All Components	Electrical testing. Perform the following tests - insulation resistance test, contact resistance test. Inspect connections and enclosure. Clean enclosure and lubricate mechanical transfer switch per manufacturer's recommendations.	Annually		

Metasys Work Station	On each scheduled service visit to the Jobsite - Report in with appropriate customer personnel. Review METASYS for CRITICAL, FOLLOW-UP and OFF-LINE status indications. Review METASYS for OVERRIDE, DISABLED, and LOCKOUT status indications. Review System Event Log with customer; discuss METASYS operational concerns. Perform or schedule "Corrective Maintenance" procedures as appropriate to resolve situations noted in the preceding Reviews, Install appropriate METASYS Software refine and problem correction revisions ("Minor Rev's"), as they become available. Check monitor for clarity, focus and color. Clean Read/Write heads of removable disc drives(s). Cycle power, listen for unusual motor/bearing noise. Verify proper system restart, check system date, time and hardware status. Clean exterior surfaces. Save/Copy METASYS Workstation Data Base, including custom graphics and resident NCU Archive Data Bases, as indicated in the agreement.	Each Scheduled Visit

Electrical - Distribution Panelboards

		Frequency:	Other Comments: Other Notes:
Circuit Breakers	Calibrate overcurrent device. Provide electrical tests for the following - contact resistance test, insulation resistance test, inspect connections, thermographic test. Provide test reports to the Owner in writing per NETA 5.4.	Every 3 Years	Test Due 2020 and 2023
TVSS	Verify proper operation. Replace failed components. Review status indicator of each component. Document event history and reset history upon recording.	Monthly	

Electrical - Dry-Type Transformers

		Frequency:	Other Comments:	Other Notes:
General	De-energize transformer. Check for any accumulation of dust or dirt on the terminations or vents. If necessary, remove by vacuuming, brushing, or blowing dry air. Special care should be taken when blowing with dry air to prevent further damage to the product or injury to maintenance personnel from flying particles. Inspect insulators, terminals, terminal boards, for tracking (discharge), breaks, cracks or burns. Clean or repair of necessary. Check terminal quality and connections for tightness. Replace or tighten as necessary. Inspect ground connections and ground contact surfaces. Tighten or repair if needed. For ventilated designs only, if moisture is evident, the unit should be dried out b y placing it in an oven or by blowing heated air over it. The temperature should not exceed 110 degrees C (230 degrees F) to prevent damage to installation wiring.	Yearly		De-energize the transformer before making repairs. Failure to do so could result in severe personal injury, death, or property damage.
General Testing	Electrical testing - Perform the following electrical tests - polarization index (71.0), power factor test, insulation resistance tests, turns ratio test. Report results in writing to the Owner per NETA 5.4.	Every 3 years	Test Due 2020 and 2023	
Temperature Monitor	Review and record maximum temperature readings. Reset maximum temperature memory after recording. Verify proper operation of fans. Perform system test.	Monthly	>500 KVA only	

Preventive Maintenance Task List - Contractor's Responsibility

Electrical - Electrical Switchboard/Switch Gear

		Frequency:	Other Comments: Other Notes:
Inspection	Inspect for moisture, dirt or dust. Clean or repair as required. Inspect all electrical joints/connections, any component devices. Visually check connections to be certain clean and secure. If any evidence of overheating exists, repair/replace as required.	Yearly	
Low Voltage Circuit Break	Electrical testing. Perform the following electrical tests - high current test, calibrate overcurrent device, contact resistance test, insulation resistor test. Report results in writing to the Owner per NETA 5.4.	Every 3 Years	Test Due 2020 and 2023
Main Circuit Breaker	Electrical testing. Perform the following electrical tests - high current test, calibrate overcurrent device, contact resistance test, insulation resistance test. Report results in writing to the Owner per NETA 5.4.	Every 3 Years	Test Due 2020 and 2023
Mechanical/Switches	Check the operation of all mechanical components. Replace as required. Lubricate the operating parts of switch mechanisms per manufacturer's instructions. Operate each switch or circuit breaker several times to make sure that all mechanisms are free and in proper working order. Replace as required.	Yearly	

Electrical - Emergency Generator

		Frequency:	Other Comments: Other Notes:
Air Cleaner Element	Inspect and clean or replace air cleaner element.	Yearly	Before Starting Engine
Air Cleaner Indicator	Check the indicator, change elements if indicator diagram remains in the locked position.	Monthly	Before Starting Engine

Automatic Switches	Check that all switches are in proper position for automatic start.	Monthly	After Stopping the Engine
Batteries	Clean top of batteries. Check electrolyte level. Check for loose connections.	Monthly	Before Starting Engine
Battery Charger	Check for proper operation.	Monthly	Before Starting Engine
	Record charging amperage reading.	Monthly	After Stopping the Engine

Electrical - Emergency Generator

		Frequency:	**Other Comments: Other Notes:**
Bearing Bracket Temp	Check and record bearing bracket temperature (if equipped) with the engine under load. NOTE: Normal temperature values for the bearing bracket are 85 degrees C (185 degrees F) for the alarm and 195 degrees C (203 degrees F) for the shut down.	Yearly	With Engine Running
Belts	Check for worn, broken, or loose belts. Adjust and replace belts if necessary.	Monthly	Before Starting Engine
Block Heater	Check for proper operation. Maintain 32 degree C (90 degrees F) coolant temperature in the block at all times.	Monthly	Before Starting Engine
Control Panel	Visually inspect. Check for loose, broken or damaged wiring or components.	Monthly	Before Starting Engine
Coolant Analysis	Obtain sample and submit sample of analysis.	Annually	After Stopping the Engine
Cooling System	Check coolant level. Maintain level within 13 mm (1/2 in) to bottom of filler neck or proper level on sight gauge (if equipped).	Monthly	Before Starting Engine

Preventive Maintenance Task List - Contractor's Responsibility

Crankcase Breather	Clean crankcase breather.	Yearly	Before Starting Engine
Day Tank	Inspect tank and containment for evidence of leakage. Verify proper operation of pumps and sequencing based upon tank levels. Verify alarms. Verify transfer operation. Repair or replace components as required.	Monthly	
Engine	Wipe down; clean as needed.	Yearly	Before Starting Engine
	Perform a complete engine adjustment and tune-up; refer to the Service Manual of your engine for more information.	Annually	Before Starting Engine
Engine Crankcase	Check the oil level. Maintain the oil level between the ADD and FULL marks on the "Engine Running" side of the dipstick.	Monthly	With Engine Running
	Check oil level. Maintain oil level between the ADD and FULL marks on the "Engine Stopped" side of the oil level gauge.	Monthly	Before Starting Engine
Engine Mounts	Inspect for proper installation and loose fasteners. Check for proper torque.	Yearly	With Engine Running
Engine Oil & Filter	Change oil. Replace filter(s), cut old filter open and inspect for foreign material.	Yearly	After Stopping the Engine
Exhaust System	Check for leaks. Repair or replace defective components with engine stopped.	Every 3 Years	With Engine Running

Preventive Maintenance Task List - Contractor's Responsibility

Frequency (RPM)	Check & record readings. NOTE: The operating voltage of a cold (just started) generator will be slightly higher than the operating voltage of a generator that has been under load & warm. The full load voltage of a SR4 Generator will decrease a max of 1% when this generator stabilized at 100 degrees C (212 degrees F). Most of the voltage decrease occurs in about 30 min. Generally, temps of generators stabilize within 2 hours.	Monthly	With Engine Running
Fuel Pressure Gauge	Check for proper operating fuel pressure. Refer to the O&M guide for the correct pressure reading.	Monthly	With Engine Running
Fuel System	Check for leaks. Drain water separator (if equipped). Check Fuel tank level. Check fuel filter indicator.	Monthly	Before Starting Engine
	Drain water and sediment from tank. Change fuel filters (filter size 1R-0749)	Monthly	Before Starting Engine
Gauges	Check condition of all gauges. Repair or replace any broken gauges.	Monthly	Before Starting Engine
Gen Air Inlet Filter	If differential pressure exceeds 0.6 inches of water, stop the engine and clean the elements of soaking in hot water with detergent. Rinse with clear water. Recharge the element with a thin layer of light weight machine oil (WD-40 or equivalent).	Monthly	With Engine Running
	Remove the filter elements and soak in hot water with detergent until clean. Rinse with clear water. Recharge the elements with a thin layer of light weight machine oil (WD-40 or equivalent).	Yearly	After Stopping the Engine
Generator	Check for moisture, dust, oil, greases, and debris on main stator windings, exciter, and PMG. Clean as needed.	Monthly	Before Starting Engine

Preventive Maintenance Task List - Contractor's Responsibility

Generator Bearing	Inspect generator bearing and bracket. Lubricate generator bearing. Refer to Generator Service Manual.	Yearly	Before Starting Engine
Generator Louvers	Check for the proper operation (able to open and close freely).	Monthly	With Engine Running
Governor	Check and maintain oil level (if required).	Monthly	Before Starting Engine
Hoses and Belts	Replace; it is recommended that all hoses and belts be replaced at this time to minimize downtime and additional repair cost of component failures caused by these items.	Every 3 Years	Before Starting Engine
Leaks and Noises	Check for leaks and unusual noises. NOTE: Engine must be stopped before making necessary repairs.	Monthly	With Engine Running
Linkages	Check and adjust all linkages, if necessary. Lubricate all linkage fittings with MPGM grease.	Yearly	Before Starting Engine
Load Test	Load the engine to minimum of 30% of rated load. Operate at this level for minimum of 2 hours. After approximately 1 hour, record the readings of all gauges: oil pressure, fuel pressure, oil level, rpm (frequency), generated voltage, service meter, engine jacket water temperature, exhaust temperature (if equipped) and manifold vacuum (if equipped). Engine slobbering can occur if the load testing is not conducted.	Yearly	With Engine Running
Oil Pressure Gauge	Check for proper operating oil pressure. Refer to the O&M guide for correct pressure reading.	Monthly	With Engine Running

Stator Winding Temp	Main Stator Winding Temp (if equipped with Winding Defectors) - Yearly Check and record main stator winding temperatures with engine under load. NOTE: Nominal temperature values for standby units are 180 degrees C (356 degrees F) for the alarm and 205 degrees C (401 degrees F) for the shut down.		With Engine Running
Turbo Charger	Inspect/check; inspect for proper operation. Check the end play and radial clearance on the turbine wheel and shaft.	Every 3 Years	Before Starting Engine
Walk-Around Inspection	Inspect engine, radiator, and generator for debris, loose or broken fittings, hoses or wires and guards. Repair as necessary.	Monthly	Before Starting Engine and with Engine Running

Electrical - Medium Voltage Switch/Feeder

		Frequency:	**Other Comments: Other Notes:**
15 KV Switch	Inspect, clean, lubricate and adjust per manufacturer's recommendations.	Annually	
	Testing - Perform the following electrical tests - insulation resistance test, contact resistance test and operational test. Report results in writing to Owner per NETA 5.4.	Every 3 Years	Test Due 2020 and 2023
Primary Feeder	Testing - Perform the following electrical tests - insulation resistance testing and PC high potential test. Report results in writing to the Owner.	Every 3 Years	Coordinate with 15 KV tests
	Inspect connection points. Observe for evidence of overheating, arcing, etc.	Annually	

Preventive Maintenance Task List - Contractor's Responsibility

Electrical - Motor Control Center

		Frequency:	Other Comments:	Other Notes:
Circuit Breaker	Inspect circuit breaker and the unite interior for evidence of possible damage. If evidence of damage is not apparent, the breaker may be reset and turned ON. If it is suspected that the circuit breaker has opened several short-circuit faults or if signs of circuit breaker deterioration appear within the enclosure, the circuit breaker should be replaced.	Yearly	Warning: Fault Condition must be corrected before start-up.	Caution: All inspections/tests are to be made on controllers & equipment which are deenergized, disconnected & isolated so that accidental contact cannot be made with live parts & so that all plant safety procedures will be observed.
Contactor	Inspect contactor. Contacts showing heat damage, displacement of metal, or loss of adequate wear allowance require replacement of the contacts and the contact springs. If deterioration extends beyond the contacts, such as binding in the guides or evidence of insulation damage, the damaged parts or the entire contactor must be replaced.	Yearly	Warning: Fault Condition must be corrected before start-up.	Caution: All inspections/tests are to be made on controllers & equipment which are deenergized, disconnected & isolated so that accidental contact cannot be made with live parts & so that all plant safety procedures will be observed.

Preventive Maintenance Task List - Contractor's Responsibility

Controller	Before returning the controller to service, checks must be made for the tightness of electrical connections and for the absence of short circuits, grounds and leakage. All equipment enclosures must be closed and secured before the brace circuit is energized.	Yearly	Warning: Fault condition must be up.	Caution: All inspections/tests are to be made on controllers & equipment which are deenergized, disconnected & isolated so that accidental contact cannot be made with live parts & so that all plant safety procedures will be observed.
Disconnect Switch	Inspect disconnect switch. The external operating handle of the disconnect switch must be capable of opening the switch. If the handle fails to open the switch or if visual inspections after opening indicates deterioration beyond normal wear and tear, such as overheating, contact blade or jaw pitting, insulation breakage or charring, the switch must be replaced.	Yearly	Warning: Fault condition must be corrected before start-up	Caution: All inspections/tests are to be made on controllers & equipment which are deenergized, disconnected & isolated so that accidental contact cannot be made with live parts & so that all plant safety procedures will be observed.

Preventive Maintenance Task List - Contractor's Responsibility

Enclosure	Inspect cabinet enclosure. Substantial damage to the unit door or frame such as deformation, displacement of parts or burnings, requires replacement of the entire unit.	Yearly	Warning: Fault condition must be corrected before start-up	Caution: All inspections/tests are to be made on controllers & equipment which are deenergized, disconnected & isolated so that accidental contact cannot be made with live parts & so that all plant safety procedures will be observed.
Fuse Holders	Inspect fuse holders. Deterioration of fuse holders or their insulating mounts requires their replacement.	Yearly	Warning: Fault condition must be corrected before start-up	Caution: All inspections/tests are to be made on controllers & equipment which are deenergized, disconnected & isolated so that accidental contact cannot be made with live parts & so that all plant safety procedures will be observed.

Preventive Maintenance Task List - Contractor's Responsibility

Miscellaneous	Check all indicating lamps, mechanical flags, doors, latches, and similar auxiliaries and repair, if required. Do not remove any labels or nameplates. Restore any that are damaged.	Yearly	Wrap-up	Caution: All inspections/tests are to be made on controllers & equipment which are deenergized, disconnected & isolated so that accidental contact cannot be made with live parts & so that all plant safety procedures will be observed.
Relays	Inspect overload relays. If burnout of the current element of an overload relay has occurred, the complete overload relay must be replaced. Any indication that an arc has struck and/or any indication of burning of the insulation of the overload relay also requires replacement of the overload relay. If there is no visual indication of damage that would require replacement of the overload relay, the relay must be electrically or mechanically tripped to verify the proper functioning of the overload relay contacts.	Yearly	Warning: Fault condition must be corrected before start-up	Caution: All inspections/tests are to be made on controllers & equipment which are deenergized, disconnected & isolated so that accidental contact cannot be made with live parts & so that all plant safety procedures will be observed.

Terminals-Conductors	Inspect terminals and internal conductors. Indications of arcing damage and/or overheating such as discoloration and melting of insulation require the replacement of damage parts.	Yearly	Warning: Fault condition must be corrected before start-up	Caution: All inspections/tests are to be made on controllers & equipment which are deenergized, disconnected & isolated so that accidental contact cannot be made with live parts & so that all plant safety procedures will be observed.

Electrical - Panelboards

		Frequency:	Other Comments:	Other Notes:
TVSS	Verify proper operation. Replace any failed components. Review status indicator of each component. Document event history and reset history upon recording.	Monthly		

Electrical - Panelboards - Emergency

		Frequency:	Other Comments:	Other Notes:
All Components	Inspect for moisture, dirt or dust. Clean or repair as required. Inspect all electrical joints, connections and component devices. Visually check connections to be certain they are clean and secure. Perform thermographic tests. Reports results to Owner.	Annually		
TVSS	Verify proper operation. Replace failed components. Review status indicator of each component. Document event history and reset history upon recording.	Monthly		

Preventive Maintenance Task List - Contractor's Responsibility

Electrical - Uninterrupted Power System (TIP Bldg. Only)

		Frequency:	Other Comments: Other Notes:
Battery	Check batteries in accordance with manufacturer's recommendations, including but not limited to system float voltage, system load, 100 percent float cell/jar voltage, internal resistance/impedance, re-torque as necessary, ambient temperature, temperature of negative terminal, and visual inspection. Fill cells as needed.	Quarterly	
Operator's Log	The operators log should contain the following information - Dates of air filter replacement, dates that battery maintenance was performed, dates that input, output and battery status readings were checked, and the values of those readings. The verbatim recording of any message associated with an abnormal condition. Initial messages may be replaced with additional messages. If it is necessary to call Liebert Service, a written record of all message information should be available.	3 Months	
Restart	1) Turn the rotary switch counterclockwise to Position 1 (not Position 0), thereby transferring the critical load to the Maintenance Bypass Line. 2) Perform start-up according to Section 3.6 Start-up. 3) Record verbatim any messages displayed during start-up. 4) Follow instructions contained in screen messages.	As required	

Preventive Maintenance Task List - Contractor's Responsibility

Electrical - Variable Frequency Drive

		Frequency:	Other Comments:	Other Notes:
Electrical Tests	Test input and output protection calibration, overtemperature, over frequency and overload protection. Perform continuity tests on bonding conductors. Perform resistance measurements through bolted connectors.	Every 3 Years	Test Due 2020 and 2023	
Mechanical Inspections	Inspect condition, anchorage, alignment and grounding. Ensure cleanliness of enclosure and heat transfer surfaces. Verify motor running protection settings and fuses. Perform diagnostic tests. Perform operational tests over minimum and maximum speeds and verify remote operation speed and start/stop controls.	Annually		

Fire Alarm - Fire Alarm System

		Frequency:	Other Comments:	Other Notes:
All Components	Follow NFPA-72 Code for inspection, Testing and Maintenance of system.	As Required		

Fire Protection - Clean Agent Fire Suppression System

		Frequency:	Other Comments:	Other Notes:
All Components	Follow NFPA-2001 Standards for Inspection, Maintenance, Testing and Training.	As Required		

Fire Protection - Double Interlocked Preaction System

		Frequency:	Other Comments:	Other Notes:
General	Remove and clean all strainers. Inspect and rain any accumulated water from air supply. Testing and maintenance to be in accordance with NFPA 25.	Yearly	During maintenance fix all leaks	

Preventive Maintenance Task List - Contractor's Responsibility

Fire Protection - Dry-Automatic Fire Sprinkler System

		Frequency:	Other Comments:	Other Notes:
All Components	Follow NFPA-25 Standards for Inspection, Maintenance and Testing of system.	As Required		

Fire Protection - Dry-PreAction Fire Sprinkler System

		Frequency:	Other Comments:	Other Notes:
All Components	Follow NFPA-25 Standards for Inspection, Maintenance and Testing of system.	As Required		

Fire Protection - Wet-Automatic Fire Sprinkler System

		Frequency:	Other Comments:	Other Notes:
All Components	Follow NFPA-25 Standards for Inspection, Maintenance and Testing of system.	As Required		

HVAC - Air Cooled Condensing Units

		Frequency:	Other Comments:	Other Notes:
Condenser	Inspect for leaks, inspect fins for cleanliness and damage. Clean and straighten/repair fins as required. Chemically clean condenser annually.	6 months		
Disconnect	Visually inspect wiring for cracks or corrosion. Replace or repair as required.	6 months	Caution: Machine must be shut-down and locked out before inspection.	

Fans	Visually inspect for operation. Inspect blades for any obstructions. Clean any debris found and repair any damage to fan blades and motor. Lubricate fan and motor per manufacturer's instructions.	6 Months	Caution: Machine must be shut-down and locked out before inspection.

HVAC - Air Handling Unit (CW/HW)

		Frequency:	**Other Comments: Other Notes:**
Air Handler	Observe unit weekly for any change in running condition and unusual noise.	Weekly	
Coils-Chilled Water	Use a soft brush to remove loose debris from both sides of the coil. Mix a high quality coil cleaning detergent with water according to the manufacturers instructions. Place the mixed solution in a garden pump-up sprayer or high pressure sprayer. Spray the leaving air side of the coil first, then the entering air side. Thoroughly rinse both sides of the coil. Straighten any coil fins with a fin rake. Confirm that the drain line remains open following the cleaning process. Use caution to assure that any contaminated material does not contact other areas of the unit or building. Properly dispose of all contaminated materials and cleaning solution. Provisions must be made to drain coils that are not in use when subjected to freezing temperatures. For detailed instructions, see pages 79 & 80 of Trane O&M. Coils should be inspected for leaks.	Yearly	Caution: Never use steam or hot water to clean a refrigerant cooling coil.

Preventive Maintenance Task List - Contractor's Responsibility

Coils-Hot Water	Use a brush to remove loose debris from both sides of the coil. Use a steam cleaning machine, starting from the top of the coil and working downward. Clean the leaving air side of the coil first, then the entering air side. Use a block-off to prevent steam from blowing through the coil and into a dry section of the unit. Confirm that the drain line is open. Allow the unit to dry before putting back into service. Straighten any coil fins that may have been damaged with a fin rake. Use caution to assure that any contaminated material does not contact other areas of the unit or building. Properly dispose of all contaminated materials and cleaning solution. RE: For detailed instructions see page 78 & 70 of Trane O&M. Coils should be inspected for leaks.	Yearly	Disconnect all electrical power to the unit.	Caution: Follow all directions provided with chemical cleaners to avoid personal injury and/or coil change. Commercially available chemical cleaners may contain caustic or hazardous agents.
Drain Pan	Inspect and clean condensate drain pan and lines. Vacuum and sanitize as required.	6 Months	For task details see Trane O & M page 76	Disconnect all electrical power to the unit.
Fan Bearing & Motor	Check fan bearing grease line connections. Re-lubricate fan bearing and check motor lubrication. Check bearing and motor bracket bolt torque. Check fan and motor sheave alignment and screws. Inspect and adjust fan belts, electrical connection and coils. Replace belts if required. Contractor should check and record amperages of fan motor.	3-6 Months	See details on page 74 of Trane O&M	

Preventive Maintenance Task List - Contractor's Responsibility

Fans	Inspect fans for organic matter on the interior surfaces of fans. 1) Disconnect all electrical power to the unit. 2) Don the appropriate personal protective equipment (PPE). 3) Use a portable vacuum with HEPA filtration to remove the loose dirt and organic matter. The filter should be 99.97% efficient at 0.3 micron particle size. 4) If no microbial growth (mold) exists, thoroughly clean the fan and associated components with an industrial cleaning solution. Carefully follow the cleaning solution manufacturers instructions regarding personal protection and ventilation when using their product. 5) If microbial growth (mold) is present, remove the contamination (Step 2) and thoroughly clean the affected area with an EPA-approved sanitizer specifically designed for HVAC use. Carefully follow the sanitizer manufacturers instructions regarding the use of the product. 6) Rinse the affected surfaces thoroughly with fresh water and a fresh sponge to prevent potential corrosion of metal surfaces. 7) Allow the unit to dry completely before putting it back into service. 8) Use caution to assure that any contaminated material does not contact other areas of the unite or building. Properly dispose of all contaminated materials and cleaning solution.	6 Months	See Warning on page 78 of Trane O&M prior to starting any work.	For cleaning directions, see page 78 of Trane O&M.
	Relubricate fan bearings.	Monthly		Lube according to table 55, page 76 of Trane O&M

Inspection of the Unit	Inspect unit casing for corrosion. Clean fan wheels & fan shaft. Inspect condensate drain pan/drain line. Remove obstacles. Check damper linkages, set screws & blade adjustment - clean. Clean damper operator. Inspect control & power box wiring. Rotate fan wheel and check for obstruction. Adjust the center & tighten wheel set screws to proper torque. Check condition of gasketing & insulation door & dampers. Examine flex, connections for cracks/leaks. Repair/replace damaged material.	Yearly	For details see Trane O&M	See Warning from Trane O&M
Internal Insulation	Inspect insulation in "Wet" and "Dry" sections for moisture. See Trane O&M for procedure. If evidence of microbial growth, immediately clean & sanitize.	6 Months		
Motor - Electric	Inspect internally and clean. Perform the following electrical tests; polarization index, power factor test, insulation resistance test. Report results of tests to Owner per NETA 5.4.	Every 3 Years	Test Due 2020 and 2023	Greater than or equal to 10HP only

HVAC - Air Handling Unit (DX/HW)

		Frequency:	**Other Comments:**	**Other Notes:**
Air Handler	Observe unit weekly for any change in running condition and unusual noise.	Weekly		

Preventive Maintenance Task List - Contractor's Responsibility

Coils-DX	Use a soft brush to remove loose debris from both sides of the coil. Mix a high quality coil cleaning detergent with water according to the manufacturers instructions. Place the mixed solution in a garden pump-up sprayer or high pressure sprayer. Spray the leaving air side of the coil first, then the entering air side. Thoroughly rinse both sides of the coil. Straighten any coil fins with a fin rake. Confirm that the drain line remains open following the cleaning process. Use caution to assure that any contaminated material does not contact other areas of the unit or building. Properly dispose of all contaminated materials and cleaning solution. Provisions must be made to drain coils that are not in use when subjected to freezing temperatures. For detailed instructions, see pages 79 & 80 of Trane O&M. Coils should be inspected for leaks with electronic leak detector.	Yearly	Caution: Never use steam or hot water to clean a refrigerant cooling coil.	
Coils-Hot Water	Use a brush to remove loose debris from both sides of the coil. Use a steam cleaning machine, starting from the top of the coil and working downward. Clean the leaving air side of the coil first, then the entering air side. Use a block-off to prevent steam from blowing through the coil and into a dry section of the unit. Confirm that the drain line is open. Allow the unit to dry before putting back into service. Straighten any coil fins that may have been damaged with a fin rake. Use caution to assure that any contaminated material does not contact other areas of the unit or building. Properly dispose of all contaminated materials and cleaning solution. RE: For detailed instructions see page 78 & 79 of Trane O&M.	Yearly	Disconnect all electrical power to the unit.	Follow all directions provided with chemical cleaners to avoid personal injury and/or coil damage. Commercially available chemical cleaners may contain caustic or hazardous agents.
Drain Pan	Inspect and clean condensate drain pan and lines. Vacuum and sanitize as required.	6 Months	For task details see Trane O&M page 76.	Disconnect all electrical power to the unit.

Preventive Maintenance Task List - Contractor's Responsibility

Fan Bearing & Motor	Check fan bearing grease line connections. Re-lubricate fan bearing and check motor lubrication. Check bearing and motor bracket bolt torque. Check fan and motor sheave alignment and screws. Inspect and adjust fan belts, electrical connection and coils.	3-6 Months	See details on page 74 of Trane O&M.	
Fans	Inspect fans for organic matter on the interior surfaces of fans. 1) Disconnect all electrical power to the unit. 2) Don the appropriate personal protective equipment (PPE). 3) Use a portable vacuum with HEPA filtration to remove the loose dirt and organic matter. The filter should be 99.97% efficient at 0.3 micron particle size. 4) If no microbial growth (mold) exists, thoroughly clean the fan and associated components with an industrial cleaning solution. Carefully follow the cleaning solution manufacturers instructions regarding personal protection and ventilation when using their product. 5) If microbial growth (mold) is present remove the contamination (Step 2) and thoroughly clean the affected area with an EPA-approved sanitizer specifically designed for HVAC use. Carefully follow the sanitizer manufacturers instructions regarding the use of the product. 6) Rinse the affected surfaces thoroughly with fresh water and fresh sponge to prevent potential corrosion of metal surfaces. 7) Allow the unite to dry completely before putting it back into service. 8) Use caution to assure that any contaminated material does not contact other areas of the unit or building. Properly dispose of all contaminated materials and cleaning solution.	6 Months	See Warning on page 78 of Trane O&M prior to starting any work.	For cleaning directions, see page 78 of Trane O&M
	Relubricate fan bearings.	Monthly		See warning on page 74 of Trane O&M

Inspection of Unit	Inspect unit casing for corrosion. Clean fan wheels & fan shaft. Inspect condensate drain pan/drain line. Remove obstacles. Check damper linkages, set screws & blade adjustment-clean. Clean damper operator. Inspect control & power box wiring. Rotate fan wheel & check for obstruction. Adjust the center & tighten wheel set screws to proper torque. Check condition of gasketing & insulation door & dampers. Examine flex, connections for cracks/leaks. Repair/replace damaged material.	Yearly	For details see Trane O&M	See Warnings from Trane O&M
Internal Insulation	Inspect insulation in "Wet" and "Dry" sections for moisture. See Trane O&M for procedure. If evidence of microbial growth, immediately clean & sanitize.	6 Months		

HVAC - Air Handling Unit (Heat Pump)

		Frequency:	**Other Comments:**	**Other Notes:**
Fans	Relubricate fan bearings	Monthly		See warnings on page 74 of Trane O&M

HP Condenser/Air Handler	The following maintenance procedures must be performed at the beginning of each cooling season to insure efficient unit operation. 1) Perform all of the monthly maintenance inspections. 2) With the unit operating, check unit superheat and record the reading in the "Maintenance Log". 3) Remove any accumulation of dust and/or dirt from the unit casing. 4) Remove corrosion from any surface and repaint. Check the gasket around the control panel door to insure it fits correctly and is in good condition to prevent water leakage. 5) Inspect the evaporator fan belt. If it is worn or frayed, replace it. 6) Inspect the control panel wiring to insure that all connections are tight and that the insulation is intact. Lubricate the indoor fan motor bearing with a non detergent 20-weight oil. (To insure good bearing lubrication, condenser fan motor bearings should be lubricated once every 6 months).	Yearly	Warning: Open and lock out unit.	Warning: This product contains fiberglass wool insulation. See page 17 of Odyssey O&M for details.
	Maintenance inspections and repair. 1) Check unit wiring. 2) Check drain pans. 3) Manually rotate the indoor fan. 4) Inspect the evaporator and condenser coils. 5) Check operation of unit. 6) Observe indoor fan operation. Clean, repair or replace components as required. Check and record amperage of compressors and fan motors.	Monthly		

HVAC - Boiler

		Frequency:	**Other Comments:**	**Other Notes:**
Burner	Check burner and pilot flame. Check start-up and proper operations. Observe alarm status and temperatures of hot water and flue.	Monthly / Heating Season	Check with gas company to verify gas pressure	Co < 100 PPM, Flue temperature 300 degrees F +/- 30 degrees F

Flue	Clean flue	Yearly	Keep flue clean of foreign matter.
Relief Valves	Check relief valve by lifting handle.	Yearly	Water could be very hot.

HVAC - Cabinet Unit Heater

		Frequency:	**Other Comments: Other Notes:**
All components	Inspect the unit cabinetry for chips or corrosion. Clean or repair to provide unit protection. Inspect fan wheel and housing for damage. Rotate fan wheel manually to ensure movement not blocked by obstructions. Clean and tighten all electrical connections. Inspect the strainer option for debris trapped in the filter screen.	Annually	

HVAC - Cabinet Unit Heaters Electric

		Frequency:	**Other Comments: Other Notes:**
All components	Inspect the unit cabinetry for chips or corrosion. Clean or repair to provide unit protection. Inspect fan wheel and housing for damage. Rotate fan wheel manually to ensure movement not blocked by obstructions. Clean and tighten all electrical connections. Inspect the strainer option for debris trapped in the filter screen.	Annually	

HVAC - Chilled Water System - Treatment

		Frequency:	**Other Comments: Other Notes:**
Air Vent	1) Isolate vent by closing gate valve. 2) Remove vent cover and check to see if mechanism operates freely. 3) Clean, repair or replace in accordance with instruction sheet 402-008 in Mech. O&M Volume 3.	Annually	

Expansion Tank	Check air pressure prior to start of cooling season.	Annually		
Treatment Program	Perform regular tests of chilled water system. Maintain appropriate water quality characteristics through a comprehensive treatment program.	Yearly		

HVAC - Chiller-Rotary

		Frequency:	**Other Comments:**	**Other Notes:**
Condenser	Inspect the condenser tubes for fouling. Clean if necessary.	Annually	Refer to Section 9 "Maintenance Procedures".	
Controls	Check refrigerant charge and leak check. Inspect all safety controls and inspect all electrical components for deficiencies. Repair/replace as required.	Annually	Disconnect all power	
Enclosure	Clean and repaint any area that show signs of corrosion.	Annually		
Evap/Condenser Tubes	Inspect tubes by performing a non-destructive tube test on the condenser and evaporator tubes.	Every 3 years	Use a nondestructive test	
Oil	Perform an oil analysis.	Annually	Disconnect all power	Have qualified laboratory perform tests.
Oil Filter	Measure the oil filter pressure drop. Replace oil filter if required.	Annually	Refer to Section 9 "Maintenance Procedures".	Replace oil filter if required.

Operator Log	Check and record readings of all gauges. Check evaporator and condenser pressure with gauges and compare to the reading on the clear language display. Pressure readings should fall within the ranges specified in the Operating Conditions Table. Measure and log the sub cooling and superheat. Refer to Table 26.	Weekly / Cooling Scan	Check O&M's for operating conditions.	Log all readings in "Series R Operating Log"
Piping	Inspect all piping for leaks and damage. Repair as needed.	Annually		
Refrigerant	Leak check the chiller. If operating conditions indicate a refrigerant shortage, immediately identify and repair all leaks.	As Required		
Relief Valves	Test all relief valves. Test vent piping of all relief valves for presence of refrigerant to detect improperly sealed relief valves. Replace any leaking relief valve.	Annually		
Strainers	Clean all water strainers in both the chilled and condensing water piping systems.	Monthly / Cooling Season		

HVAC - Computer Room Air Conditioner

		Frequency:	**Other Comments:**	**Other Notes:**
Coils	Inspect and clean in condenser and evaporator coils as necessary. If microbial growth (mold) is present, remove contamination and sanitize. Rinse affected surfaces thoroughly with fresh water. Dry completely prior to start-up of unit.	6 Months	Caution: Machine must be shut down prior to cleaning.	Warning: Never use steam cleaning, high pressure washer on coils. Damage to coils may result.

Preventive Maintenance Task List - Contractor's Responsibility

Filter	Replace filters.	Monthly	Caution: Machine must be shut down prior to cleaning.
General	Check humidifier and electric NTG coils. Check and replace fuses as needed. Check and record operating setpoints. Check accuracy of sensors and recalibrate as needed. Check equipment is operating properly.	Monthly	Caution: Machine must be shut down prior to replacement.

HVAC - Condenser Water System - Treatment

		Frequency:	Other Comments: Other Notes:
Metering Pump	1) Routinely check the physical operating condition of the pump. Look for the presence of any abnormal noise, excessive vibration, low flow and pressure output or high temperatures (when running constantly at maximum stroke rate, the pump housing temperature can be up to 160 degrees F (70 degrees C)). 2) For optimum performance, cartridge valves should be changed every 4-6 months. Depending on the application, more frequent changes may be required. Actual operating experience is the best guide in this situation. Repeated short-term deterioration of valve seats and balls usually indicates a need to review the suitability of wetted materials selected for the application. Contact the supplier for guidance. 3) Check for leaks around fittings or as a result of deteriorating tube e.g. when standard white translucent discharge tubing is exposed to direct sunlight. Take appropriate action to correct leak by tightening fittings or replacing components. 4: Keep the pump free of dirt/debris as this provides insulation and can lead to excessive pump temperatures. 5) If the pump has been out of service for a month or longer, clean the pump head/valve assemblies by pumping fresh water for approximately 30 minutes. If the pump does not operate normally after this "purging run", replace cartridge valve assemblies.	6 Months	
Solid Separator	Clean strainer.	Monthly / Cooling Season	

Treatment Program	Perform regular tests of condenser water. Maintain appropriate water quality characteristic through a comprehensive treatment program.	Monthly		

HVAC - Constant Volume Box

		Frequency:	**Other Comments:**	**Other Notes:**
Inspection	Inspect unit for cleanliness and proper operation. Verify airflow station and damper operation and calibration. Repair or replace as required.	Annually		

HVAC - Cooling Tower

		Frequency:	**Other Comments:**	**Other Notes:**
Bearing Assembly	Lubricate Bearings.	4 Months		
Electric Basin Heater	Check for power and proper operation.	Yearly	Do not exposed element to open air.	
Electric Motor	Lubrication of ball bearing motors.	End of each season and every 6 months.	Remove any oil, dust or scale deposits from motor.	Run motor for 3 hours every month when not in use.
Tower	Drain entire system at the end of seasonal shutdown.	Annually	Repaint all exposed metal	Coordinate with PTC prior to draining. Tower sump drains to building sump pit. Tower sump should be drained at slow rate to avoid overtaxing building sump

	Check all bolts and nuts and mechanical equipment including fan cylinder and fan guard.	Annually	Check all Maintenance items.	
	Lubricate fan shaft bearings. Flush and clean.	3 months Twice per season and before start-up		Maintain reliable water treatment program.
Tower Assembly	Visual inspection. Check louvers, suction screen, silt build-up and temperature of motor.	Monthly	Become accustomed to its normal sound and level of vibration.	
Tower Belts	Ensure proper belt tensioning. Keep belts free from foreign matter. Never apply belt dressing.	Yearly	Do not over tension.	

HVAC - Duct heating Coil-HW

		Frequency:	**Other Comments:**	**Other Notes:**
General	Inspect coil for cleanliness and leaks. Clean coils with steam and detergent, hot water, spray detergent or coil cleaner. Rinse coils thoroughly after cleaning.	Annually		

HVAC - Exhaust Fan-In Line

		Frequency:	**Other Comments:**	**Other Notes:**
General	Inspect belts, tighten and/or replace as necessary. Check equipment and controls are working properly.	6 Months		

HVAC - Fan-Prop

		Frequency:	**Other Comments:**	**Other Notes:**
General	Inspect belts, tighten and/or replace as necessary. Check equipment and controls are working properly.	6 Months		

HVAC - Fan Coil/Cabinet Unit Heater

		Frequency:	Other Comments: Other Notes:
Coils	Inspect coils and clean per UniTrane O&M directions.	Yearly	
Drain Pans	Check the main and auxiliary drain pans on fan-coil units to be sure the pans are clean and do not impede the condensate flow through the drain line. If microbial growth (mold) is found, remove it immediately by cleaning and sanitizing the unit properly.	6 Months	For directions, see page 90 of UniTrane O&M
Internal Insulation	Inspect internal insulation for "wet" & "dry" areas. Clean insulation to prevent unit from becoming an IAQ contaminant source. If evidence of contamination exists in either wet or dry sections, take immediate action to determine & eliminate cause.	6 Months	Complete in accordance with directions on page 95 and 96 of Trane O&M.
Unit	1) Inspect the unit cabinetry for chips or corrosion. Clean or repair to provide unit protection. 2) Inspect the fan wheel and housing for damage. Rotate the fan wheel manually to be sure movement is not blocked by obstructions. 3) Inspect the coil fins for excessive dirt or damage. Remove dirt and straighten fins. 4) Clean and tighten all electrical connections. 5) Inspect the strainer option for debris trapped in the filter screen. Repair as needed. See page 88 of Trane/Unitrane O&M. Verify equipment controls are working properly.	Yearly	

Preventive Maintenance Task List - Contractor's Responsibility

HVAC - Fan Powered Box w/ HW

		Frequency:	Other Comments:	Other Notes:
Inspection	Inspect fan and enclosure for cleanliness. Clean if required. Inspect hot water coil and clean if required. Verify proper operation of fan, flow station, damper and hot water valve. Repair or replace as required. Lubricate fan and motor per manufacturer's instructions.	Annually		

HVAC - Fan Powered Box w/ EH

		Frequency:	Other Comments:	Other Notes:
Inspection	Inspect fan and enclosure for cleanliness. Clean if required. Inspect hot water coil and clean if required. Verify proper operation of fan, flow station, damper and hot water valve. Repair or replace as required. Lubricate fan and motor per manufacturer's instructions.	Annually		

HVAC - Heating Hot Water-Treatment

		Frequency:	Other Comments:	Other Notes:
Air Vent	1) Isolate vent key closing gate valve. 2) Remove vent cover and check to see if mechanism operates freely. 3) Clean, repair or replace in accordance with instruction sheet 4002-008 in mech O&M valve.	Annually		
Expansion Tank	Check air pressure prior to start of heating season. Ensure integrity of bladder.	Annually		
Treatment Program	Perform regular tests of hot water system. Maintain appropriate water quality characteristics through a comprehensive treatment program.	Annually		

Preventive Maintenance Task List - Contractor's Responsibility

HVAC - Hydronic Unit Heater

		Frequency:	Other Comments:	Other Notes:
Coil	Inspect coil and clean if required. See Trane O&M H-IM-2F page 36.	Yearly		
Fan Motor Assembly	Remove fan motor assembly and clean unit. Wipe all excess lubricant from unit. Loosen dirt with a brush on the fan side of coil. Use high pressure air or steam on the side of coil away from fan. Clean casing, fan blades, fan guards and diffuser with damp cloth. Any rust spots should be cleaned and repainted.	Annually		
General	Verify local thermostat control operation.	Annually		
Motor	Wipe all excess lubricant from motor, fan and casing. For details, see Trane O&M UH-IM-2F page 36.	Yearly		
	Refill oil with good grade electronic motor oil while motor is at a standstill Inspect oiler and oiler holes when cleaning unit.	Annually		Allow rotating fans to stop prior to servicing to avoid serious injury.

HVAC - Kitchen Hood Exhaust

		Frequency:	Other Comments:	Other Notes:
General	Check all bearings periodically. Inspect v-belts for tightness. Clean the centrifical wheel, inlet or other moving parts. Lubricate fan shaft with manufacture recommended lubricant. Lubricate motor per motor manufacturer's lubrication instructions.	Annually		

HVAC - Power Roof Ventilator-Center Dome

		Frequency:	Other Comments:	Other Notes:
General	Inspect belts, tighten and/or replace as necessary. Clean as needed.	6 Months		

	Check all bearings periodically. Inspect v-belts for tightness. Clean the centrifical wheel, inlet or other moving parts. Lubricate fan shaft with manufacture recommended lubricant. Lubricate motor per motor manufacturer's lubrication instructions.	Annually		

HVAC - Power Roof Ventilator-Vane Axial

		Frequency:	Other Comments:	Other Notes:
General	Check all bearings periodically. Inspect v-belts for tightness. Clean the centrifical wheel, inlet or other moving parts. Lubricate fan shaft with manufacture recommended lubricant. Lubricate motor per motor manufacturer's lubrication instructions.	Annually		

HVAC - Pump-Floor Mounted

		Frequency:	Other Comments:	Other Notes:
General	Visually check for leaks. Check for lubrication. Adjust glands as necessary to maintain slight leakage. Hand test bearing housing for sign of temperature rise. Check bearing temperature with a thermometer. Check the packing and replace if necessary. Check alignment of pump and motor. Check hold-down bolts for tightness. Check coupling for wear.	6 Months		
	Check rotating elements for wear. Check wearing ring clearances. Re-grease bearings. Measure total dynamic suction and discharge head.	Annually		
	Remove bearings from pump, de-grease, thoroughly clean. Recharge with fresh grease and refit in accordance with assembly instructions.	2 Years		

Motor-Electric	Inspect internally and clean. Perform the following electrical tests; polarization index, power factor test, insulation resistance test. Report results of test to Owner per NETA 5.4.	Every 3 Years	Test Due 2020 and 2023	Greater than or equal to 10 HP only.

HVAC - Pump-In Line

		Frequency:	Other Comments:	Other Notes:
General	Visually check for leaks, hand test bearing housing for any sign of temperature rise. Check alignment of pump and motor. Check bolts for tightness. Check coupling for wear. Lubricate motor per instructions attached to motor.	6 Months		

HVAC - Unit Heater-Electric

		Frequency:	Other Comments:	Other Notes:
Fan Motor Assembly	Remove fan motor assembly and clean unit. Wipe all excess lubricant from unit. Loosen dirt with a brush on he fan side of coil. Use high pressure air or steam on the side of coil away from fan. Clean casing, fan blades, fan guards and diffuser with damp cloth. Any rust spots should be cleaned and repainted.	Annually		
General	Verify local thermostat control operation.	Annually		
Motor	Lubrication of ball sleeve bearings. See page 35 of Trane O&M for instructions.	Yearly		
	Refill oil with good grade electric motor oil while motor is at a standstill. Inspect oiler and oiler holes when cleaning unit.	Annually		Allow rotating fans to stop prior to servicing to avoid serious injury.

Preventive Maintenance Task List - Contractor's Responsibility

HVAC - VA V Box w/ HW

		Frequency:	Other Comments:	Other Notes:
Inspection	Inspect unit for cleanliness and proper operation. Inspect hot water coil for cleanliness. Clean if required. Verify airflow station, damper operation and hot water valve operation and calibration. Repair, replace or calibrate as required.	Annually		

HVAC - VA V Box-Cooling Only

		Frequency:	Other Comments:	Other Notes:
Inspection	Inspect unit for cleanliness and proper operation. Verify airflow station and damper operation and calibration. Repair or replace as required.	Annually		

Plumbing - DHW Storage System

		Frequency:	Other Comments:	Other Notes:
Air Vent	Inspect for dirt or debris. Clean if necessary.	Yearly		
Circulation Pump	Check electrical connections. Check bolts. If retaining screws have been pulled out of the housing DO NOT REPLACE them. Use of any other screw may short out the stator windings.	Yearly		
Expansion Tank	Inspect bladder-removable.	Yearly		
Storage Tank	Inspect tank for: 1) Integrity of insulating jacket, 2) Leaks	Yearly		
Thermostatic Mixing Valve	Inspect and clean strainer as needed. Verify proper operation and setpoint.	Yearly		

Preventive Maintenance Task List - Contractor's Responsibility

Plumbing - Domestic Hot Water Boiler

		Frequency:	Other Comments:	Other Notes:
Burner/Safety	Check burner operation and efficiency. Log efficiency readings and operating data. Check all safeties on boiler.	Yearly		
Inspection	Inspect jacket for air leaks due to loose panels and/or seals. Inspect all wiring and terminals for cracking. Check for any blockage in flue or vent pipe. Clean or repair as required.	Yearly		

Plumbing - Drinking Water Coolers

		Frequency:	Other Comments:	Other Notes:
Compressor Motor	Remove dirt and lint from the condenser. Check for refrigerant leaks with electronic leak detection.	Annually	Disconnect the power cord.	Refrigerant R-134A

Plumbing - Sewage Ejector

		Frequency:	Other Comments:	Other Notes:
Controls	Demonstrate and verify proper operation of controls, alarms and pump sequencing.	Annually		

Addendum No. 1

RFP #17-40130-8758

Mechanical/Electrical Maintenance Services
at
Central Administration Building (CAB)
TransCore Building (located on CAB site)
Turnpike Industrial Park (TIP) Building
TIP Maintenance Building (located on TIP site)
Steelton Warehouse
East Park Drive (EPD) E-ZPass Service Center

Prospective Respondents: You are hereby notified of the following information in regard to the referenced RFP:

REVISION

1. Replace Appendix G – Maintenance Equipment Inventory List in its entirety with the revised Appendix G – Maintenance Equipment Inventory List Addendum #1 10-30-2017 provided as attached to this addendum.
   Changes Noted:
   - Air handler unit 6 page 72
   - Air handler unit 7 page 72
   - Fan coil unit 4 page 81

QUESTIONS AND ANSWERS

Following are the answers to questions submitted in response to the above referenced RFP as of October 25, 2017. All of the questions have been listed verbatim, as received by the Pennsylvania Turnpike Commission.

Proposer Questions			**Pennsylvania Turnpike Commission (PTC)**		**RFP#: 17-40130-8758**
			Mechanical/Electrical Maintenance Services at Central Administration Building (CAB), TransCore Building (located on CAB site), Turnpike Industrial Park (TIP) Building, TIP Maintenance Building (located on TIP site), Steelton Warehouse, East Park Drive (EPD) E-ZPass Service Center		
#	Page	Section	Section Description	Proposer Question	Commission Response
1.				With this above referenced bid, is the PA Turnpike Commission looking for more than just generator and ATS maintenance at this location? For example, are you looking for one vendor who can provide services at these location to more than just the generators and ATS's for those generators?	The Commission is looking for one vendor to perform maintenance on all equipment at the six specified locations listed in the RFP. See the RFP, Sections IV-1 and IV – 2A & B for detailed information. For a detailed list of equipment by site, see Appendix G - Preventative Maintenance (PM) Equipment Inventory, which has been revised and attached to this addendum.
2.		H	Task List	Under the Equipment Inventory for each building, there is not any tasking for the Sprinkler System. Are these sprinkler systems part of the Contract for each building?	Yes – Follow manufacturer's recommendations.
3.		H	Task List	In some buildings, there are multiple pre-action Fire Systems. Are these systems part of the Contract?	Yes – Follow manufacturer's recommendations.
4.		H	Task List	The CRAC units according to the tasking have filters being changed every month. Is this a visual inspection to verify that the need to be replace, or do the filters have to be replaced every month regardless of being dirty or not?	Replaced as needed by PTC.

Proposer Questions			**Pennsylvania Turnpike Commission (PTC)**		**RFP#: 17-40130-8758**
			Mechanical/Electrical Maintenance Services at Central Administration Building (CAB), TransCore Building (located on CAB site), Turnpike Industrial Park (TIP) Building, TIP Maintenance Building (located on TIP site), Steelton Warehouse, East Park Drive (EPD) E-ZPass Service Center		
#	Page	Section	Section Description	Proposer Question	Commission Response
5.		H	Task List	The UPS units in the buildings have no tasking associated with the equipment. Should there be tasking associated with this equipment?	Yes – Follow manufacturer's recommendations.
6.		H	Task List	The PDUs in the buildings have no tasking associated with the equipment. Should there be tasking associated with this equipment?	Yes – Follow manufacturer's recommendations.
7.		H	Task List	The ATS units in the buildings have no tasking associated with the equipment. Should there be tasking associated with this equipment?	Yes – Follow manufacturer's recommendations.
8.	31	H	Task List	There are cooling towers at multiple sites. Is there any heat trace that needs tasking?	Yes – Follow manufacturer's recommendations.
9.				What equipment and tasking requires overtime/premium time to complete?	CAB only fire alarm and sprinkler system is done on premium hours.
10.		63-93	Equipment Inventory	AHU #6 and AHU #7 are not listed on the Equipment List. Is this equipment part of the Contract?	TIP AHU #6 and AHU #7 are York Solution – 30 27000 CFM Units installed 1/21/09 and started 8/2017. See revision #1 (above) and revised Appendix G (attached).
11.	63-93	G	Equipment Inventory	Fan Coil #4 is not listed on the Equipment Inventory. Is this piece of equipment part of the Contract?	TIP FCU #4 Carrier 42 BHC 10 1000 CFM. See revision #1 (above) and revised Appendix G (attached).

Proposer Questions			**Pennsylvania Turnpike Commission (PTC)** **RFP#: 17-40130-8758** Mechanical/Electrical Maintenance Services at Central Administration Building (CAB), TransCore Building (located on CAB site), Turnpike Industrial Park (TIP) Building, TIP Maintenance Building (located on TIP site), Steelton Warehouse, East Park Drive (EPD) E-ZPass Service Center		
#	Page	Section	Section Description	Proposer Question	Commission Response
12.	11-59	G	Equipment Inventory	In the CAB Building, the Equipment List contains no primary switchgear lineup. Is this equipment to be on the list?	The CAB switch gear line up consist of T01 and T02 listed on page 12 of Appendix G. HMDS switchboard containing 1 main beaker and 9 other breakers and LSDS switchboard with 18 breakers both listed on page 14 of Appendix G

All other terms, conditions and requirements of the original RFP dated October 12, 2017 remain unchanged unless modified by this Addendum.

Appendix G - RFP#17-40130-8758

PENNSYLVANIA TURNPIKE COMMISSION

Preventive Maintenance Equipment Inventory - Contractor's Responsibility

PENNSYLVANIA TURNPIKE COMMISSION

Preventive Maintenance Equipment Inventory - Contractor's Responsibility

HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
RTU 1-1	Carrier	48HCTD28ABM6-2H2B0		3/17	EPD	Vending Area
Major Component:		**Roof Top Unit**				Employee Entrance
	Unit Size:	25 ton				
			Comments:			
RTU 1-2	Carrier	48HCSA06A2M6-2F2E0		3/17	EPD	A Common
	Unit Size:	5 ton				
			Comments:			
RTU 1-3	Carrier	48HCRD24ABM6-2H2B0		3/17	EPD	B Common
	Unit Size:	20 ton				
			Comments:			
RTU 1-4	Carrier	48HCRA04A2M6-0F2E0		3/17	EPD	Rm 14 Center Hallway
	Unit Size:	3 ton				
			Comments:			
RTU 1-5	Carrier	48HCSD09A2M6-0F2E0		3/17	EPD	B Common Area
	Unit Size:	8.5 ton				
			Comments:			
RTU 1-6	Carrier	48HCRA04A2M6-2F2E0		3/17	EPD	Rm 25-27 Area A
	Unit Size:	4 ton				
			Comments:			
RTU 1-7	Carrier	48HCSD08A2M6-2F2E0		3/17	EPD	Common Area C Rm 36 - Rm 44
	Unit Size:	7.5 ton				
			Comments:			
RTU 1-8	Carrier	48HCRD17A3M6-2H2B0		3/17	EPD	Mailroom Common Area B
	Unit Size:	15 ton				

		Comments:				

PENNSYLVANIA TURNPIKE COMMISSION

Preventive Maintenance Equipment Inventory - Contractor's Responsibility

HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
RTU 1-9	Carrier	48HCRD14A2M6-2F2E0		3/17	EPD	Common Area C East Side
Major Component:		**Roof Top Unit**				
	Unit Size:	12.5 ton				
		Comments:				
RTU 1-10	Carrier	48HCRA06A2M6-2F2E0		3/17	EPD	Common Area C
	Unit Size:	5 ton				
		Comments:				
RTU 1-11	Carrier	48HCSA04A2M6-2F2E0		3/17	EPD	Lobby Large BD
	Unit Size:	3 ton				
		Comments:				
RTU 1-12	Carrier	48HCSD17A2M6-2H2B0		3/17	EPD	Warehouse
	Unit Size:	15 ton				
		Comments:				
ATS-1	ASCO	J7ADTBB30150N5XC Automatic Transfer Switch		3/17	EPD	Room 49
	Unit Size:	150A				
		Comments: 480V/60Hz 3-phase 4-Wire				
ATS-2	ASCO	H7ADTBB30800N5XC Automatic Transfer Switch		3/17	EPD	Room 49
	Unit Size:	800A				
		Comments: 480V/60Hz 3-phase 4-Wire				
	Square D	Main Switch Board		3/17	EPD	Elect Rm 48
	Unit Size:	1600 A				
		Comments: 480/277 Volts				
NH1	Square D	Panel Board		3/17	EPD	Elect Rm 48
	Unit Size:	400 A				

			Comments: 480/277 Volts			

PENNSYLVANIA TURNPIKE COMMISSION

Preventive Maintenance Equipment Inventory - Contractor's Responsibility

HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
NH2	Square D			3/17	EPD	Elect Rm 38
Major Component:		**Panel Board**				
	Unit Size:	600 A				
			Comments: 480/277 Volts			
NH3	Square D			3/17	EPD	Elect Rm 08
	Unit Size:	400 A				
			Comments: 480/277 Volts			
LSH1	Square D			3/17	EPD	Emerg Panel Rm 49
	Unit Size:	400 A				
			Comments: 480/277 Volts			
LSH2	Square D			3/17	EPD	Elect Rm 38
	Unit Size:	100 A				
			Comments: 480/277 Volts			
LSH3	Square D			3/17	EPD	Elect Rm 08
	Unit Size:	100 A				
			Comments: 480/277 Volts			
OSH1	Square D			3/17	EPD	Emerg Panel Rm 49
	Unit Size:	800 A				
			Comments: 480/277 Volts			
OSH2	Square D			3/17	EPD	Elect Rm 38
	Unit Size:	225 A				
			Comments: 480/277 Volts			
OSH3	Square D			3/17	EPD	Elect Rm 08
	Unit Size:	225 A				

			Comments: 480/277 Volts			

PENNSYLVANIA TURNPIKE COMMISSION

Preventive Maintenance Equipment Inventory - Contractor's Responsibility

HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
NL1	Square D			3/17	EPD	Elect Rm 48
Major Component:		**Panel Board**				
	Unit Size:	400 A				
			Comments: 208/120 Volts			
NL2	Square D			3/17	EPD	Elect Rm 38
	Unit Size:	600 A				
			Comments: 208/120 Volts			
NL3	Square D			3/17	EPD	Elect Rm 38
	Unit Size:	225 A				
			Comments: 208/120 Volts			
NL4	Square D			3/17	EPD	Elect Rm 38
	Unit Size:	225 A				
			Comments: 208/120 Volts			
NL5	Square D			3/17	EPD	Elect Rm 38
	Unit Size:	225 A				
			Comments: 208/120 Volts			
NL6	Square D			3/17	EPD	Elect Rm 08
	Unit Size:	400 A				
			Comments: 208/120 Volts			
NL7	Square D			3/17	EPD	Elect Rm 08
	Unit Size:	225 A				
			Comments: 208/120 Volts			
NL8	Square D			3/17	EPD	Corridor 17
	Unit Size:	250 A				

			Comments: 208/120 Volts			

PENNSYLVANIA TURNPIKE COMMISSION

Preventive Maintenance Equipment Inventory - Contractor's Responsibility

HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
NL9	Square D			3/17	EPD	IT Office 57
Major Component:		**Panel Board**				
	Unit Size:	225 A				
			Comments: 208/120 Volts			
NL10	Square D			3/17	EPD	Elect Rm 48
	Unit Size:	400 A				
			Comments: 208/120 Volts			
LSL1	Square D			3/17	EPD	Emerg Panel Rm 49
	Unit Size:	100 A				
			Comments: 208/120 Volts			
LSL2	Square D			3/17	EPD	Elect Rm 38
	Unit Size:	100 A				
			Comments: 208/120 Volts			
LSL3	Square D			3/17	EPD	Elect Rm 08
	Unit Size:	100 A				
			Comments: 208/120 Volts			
OSL1	Square D			3/17	EPD	Emerg Panel Rm 49
	Unit Size:	800 A				
			Comments: 208/120 Volts			
OSL-1	Square D			3/17	EPD	Emerg Panel Rm 49
	Unit Size:	800 A				
			Comments: 208/120 Volts			
OSL-2	Square D			3/17	EPD	Elect Rm 38
	Unit Size:	100 A				

			Comments: 208/120 Volts			

PENNSYLVANIA TURNPIKE COMMISSION

Preventive Maintenance Equipment Inventory - Contractor's Responsibility

HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
OSL-3	Square D			3/17	EPD	Elect Rm 08
Major Component:		**Panel Board**				
	Unit Size:	100 A				
			Comments: 208/120 Volts			
UPS-A1	Square D			3/17	EPD	Telecom Rm 09
	Unit Size:	100 A				
			Comments: 208/120 Volts			
UPS-A2	Square D			3/17	EPD	Telecom Rm 41
	Unit Size:	100 A				
			Comments: 208/120 Volts			
UPS-B1	Square D			3/17	EPD	Telecom Rm 09
	Unit Size:	100 A				
			Comments: 208/120 Volts			
UPS-B2	Square D			3/17	EPD	Telecom Rm 41
	Unit Size:	100 A				
			Comments: 208/120 Volts			
		Dry Type		3/17	EPD	Emerg Panel
Major Component:		**Transformer**				Rm 49
	Unit Size:	15 KVA				
			Comments: 480/208 Volts			
				3/17	EPD	Elect Rm 08
		Transformer				
	Unit Size:	15 KVA				
			Comments: 480/120 Volts			
				3/17	EPD	Elect Rm 38
		Transformer				
	Unit Size:	15 KVA				

			Comments: 480/120 Volts			

PENNSYLVANIA TURNPIKE COMMISSION

Preventive Maintenance Equipment Inventory - Contractor's Responsibility

HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
				3/17	EPD	Elect Rm 08
Major Component:		**Transformer**				
	Unit Size:	30 KVA				
			Comments: 480/120 Volts			
				3/17	EPD	Elect Rm 38
	Unit Size:	30 KVA				
			Comments: 480/120 Volts			
				3/17	EPD	Elect Rm 48
	Unit Size:	75 KVA				
			Comments: 480/120 Volts			
				3/17	EPD	Elect Rm 08
	Unit Size:	112.5 KVA				
			Comments: 480/120 Volts			
				3/17	EPD	Elect Rm 38
	Unit Size:	150 KVA				
			Comments: 480/120 Volts			
				3/17	EPD	Emerg Panel Rm 49
	Unit Size:	225 KVA				
			Comments: 480/120 Volts			
	SEIMEN	FHD2002-UI			EPD	Room 48
		Fire Panel				
	Unit Size:					
			Comments:			
	LIEBERT	0136C51565		2001	EPD - Roof	Data
		Condenser	CSL 083LP			
	Unit Size:	0.75				

Comments:

PENNSYLVANIA TURNPIKE COMMISSION

Preventive Maintenance Equipment Inventory - Contractor's Responsibility

HVAC **Appendix G**

Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Area Served
	LIEBERT	0136C51575			EPD - Roof	Data Center
Major Component:		**Condenser**	CSL 03LP			
	Unit Size:	0.75				
			Comments:			
	LIEBERT	0136C51569			EPD - Roof	Data
			CSL 03LP			
	Unit Size:					
			Comments:			
	LIEBERT	37SA050C0C6B708			EPD	Data Center
		Npower UPS				
	Unit Size:					
			Comments:			
	LIEBERT	37SA050CCC6B708			EPD	Data Center
		Npower UPS				
	Unit Size:					
			Comments:			
	Generator	500	CAT00C15CNAP01475		EPD	
	Unit Size:					
			Comments:			
			106817-3		EPD	Data Center
Major Component:		**Fire**				
		Fire Suppression System Data Center				
	Unit Size:					
			Comments:			

Central Administration Building
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PENNSYLVANIA TURNPIKE COMMISSION

Preventive Maintenance Equipment Inventory - Contractor's Responsibility

HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
ATS-1	ASCO	940	118573	3/7/2001	CAB 082-Elec Room	Emergency Lighting
Major Component:		**Automatic Transfer Switch**				
	Unit Size:	150A				
			Comments: 480Y / 277V Group 7 control panel			
ATS-2	ASCO	940	118574	3/7/2001	CAB 082-Elec Room	AHU 1&2 Smoke Evac
	Unit Size:	260A				
			Comments: Generator Excerciser, 480Y / 277V, Group 7 control panel			
ATS-3	ASCO	940	118571-2	3/7/2001	CAB 082-Elec Room	UPS
	Unit Size:	150A				
			Comments: 480Y / 277V			
ATS-4	ASCO	940	125860	3/7/2001	CAB 082-Elec Room	A/C Units Call Center
	Unit Size:	150A				
			Comments: Generator Exerciser, 480Y / 277V, Group 7 control panel			
ATS-5	ASCO	940	118573	3/7/2001	CAB 082-Elec Room	UPS
	Unit Size:	150A				
			Comments: 480Y / 277V, Group 7 control panel			
MTS	ASCI	386	118575	3/7/2001	CAB 081-MER	Heating Pumps Boilers
	Unit Size:	260 AMP				
			Comments: Load transfer switch / non-automatic			
EHDP	Cutler-Hammer			3/7/2001	CAB 065 - Vestibule	East high voltage riser
Major Component:		**Distribution Panelboards**				
	Unit Size:	400A				
			Comments: 480/227V 3-Phase 4-Wire			
NHDP	Cutler-Hammer			3/7/2001	CAB 048-Office	North High Voltage Riser
Major Component:		**Distribution Panelboards**				
	Unit Size:	400 AMP				
			Comments: 480/227V 3-Phase 4-Wire			

PENNSYLVANIA TURNPIKE COMMISSION

Preventive Maintenance Equipment Inventory - Contractor's Responsibility

HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
NLDP	Cutler-Hammer			3/7/2001	CAB 048-Office	North Low Voltage Riser
Major Component:		**Distribution Panelboards**				
	Unit Size:	800 AMP				
			Comments: 208/120V 3-Phase 4-Wire			
NLIGDP	Cutler-Hammer			3/7/2001	CAB 048-Office	North Isolated Ground Riser
	Unit Size:	400 AMP				
			Comments: TVSS 208/120V 3-Phase 4-Wire			
SHDP	Cutler-Hammer			3/7/2001	CAB 080-Transforme	South High Voltage Riser
	Unit Size:	800A				
			Comments: 480/227V 3-Phase 4-Wire			
SLDP	Cutler-Hammer			3/7/2001	CAB 080-Transforme	South Low Voltage Riser
	Unit Size:	600A				
			Comments: 208/120V 3-Phase 4-Wire			
SLIGDP	Cutler-Hammer			3/7/2001	CAB 080-Transforme	South Isolated Ground Riser
	Unit Size:	225A				
			Comments: TVSS 208/120V 3-Phase 4-Wire			
WHDP	Cutler-Hammer			3/7/2001	CAB 028-Mechanical	West High Voltage Riser
	Unit Size:	400A				
			Comments: 480/227V 3-Phase 4-Wire			
T01	Cutler-Hammer			3/7/2001	AB 092 Transfer Roor	Main Distribution
Major Component:		**Dry-Type Transformers**				
	Unit Size:	2500 KVA				
			Comments:			
T02	Cutler-Hammer			3/7/2001	CAB 081-Mechanical Mezzanine	S Riser Area E/GR & 1st FL
	Unit Size:	75 KVA				
			Comments: 480V-480V K-13			

PENNSYLVANIA TURNPIKE COMMISSION

Preventive Maintenance Equipment Inventory - Contractor's Responsibility

HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
T03	Liebert	ITA030C-FK20	03902MX	3/7/2001	CAB 066 Mechanical Room	E Riser Area B/GR & 1st FL
Major Component:		**Dry-Type Transformers**				
	Unit Size:	125 KVA				
		Comments: 480V-208Y / 120V				
T04	Liebert	ITA050C-FK20	040013MX	3/7/2001	CAB 081 Storage	S Riser Area E/GR & 1st FL
	Unit Size:	50 KVA				
		Comments: 480V-208Y / 120V K-20				
T05	Liebert	ITA-050C-FK20	04003MX	3/7/2001	CAB 028 Mechanical Room	W Riser Area C/GR & 1st FL
	Unit Size:	50 KVA				
		Comments: 480V-208Y / 120V K-20				
T06	Liebert	ITS 125C-FK20	04005MX	3/7/2001	CAB 092 Transfer Ro	N Riser Area A/GR - 3rd FL
	Unit Size:	125 KVA				
		Comments: 480V-208Y / 120V K-20				
T07	Liebert	ITA075C-FK20	04008MX	3/7/2001	CAB 080 Transforme Room	S Riser Area E/GR - 3rd FL
	Unit Size:					
		Comments: 480V-208Y / 120V K-20				
T08	Cutler-Hammer	V15160	J00G0340	3/7/2001	CAB 129 Electric Closet	N Riser Area A/1-3 FL
	Unit Size:	15 KVA				
		Comments: 480V-208Y / 120V				
T09	Cutler-Hammer	V12157	J00G0447	3/7/2001	CAB 066 Mechanical Room	E Riser Area B/GR & 1st FL
	Unit Size:	30 KVA				
		Comments: 480V-208Y / 120V K13				
T10	Cutler-Hammer	V12157	J00G2933	3/7/2001	CAB 028 Mechanical Room	W Riser Area C/GR & 1st FL
	Unit Size:	112.5 KVA				
		Comments: 480V-208Y/120V				

PENNSYLVANIA TURNPIKE COMMISSION

Preventive Maintenance Equipment Inventory - Contractor's Responsibility

HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
T11	Cutler-Hammer	V55078	J00H3727	3/7/2001	CAB 092 Transfer Ro	Sub Distibution (all)
Major Component:		**Dry-Type Transformers**				
	Unit Size:	500 KVA				
			Comments: 480-208/120V			
T12	Cutler-Hammer	V49001	J01B0388	3/7/2001	CAB 080 Transforme Room	S Riser Area E/GR-3rd FL
	Unit Size:	150 KVA				
			Comments: 480V-208Y / 120V			
EO	Cutler-Hammer			3/7/2001	CAB 084 - Emergency Generator	Emergency Power
Major Component:		**Generator**				
	Unit Size:	1200 AMP				
			Comments: 480/277V 3-Phase 4-Wire			
HMDS	Cutler-Hammer	G0N0MPH01655		3/7/2001	CAB 082 - Electrical	Bldg High Voltage Power
	Unit Size:	3000 AMP				
			Comments: 480Y / 277V Main Distribution Switchboard			
LSDS	Cutler-Hammer	G0N0MPH01655		3/7/2001	CAB 082 - Electrical Room	Bldg Low Voltage Power
	Unit Size:	1600 AMP				
			Comments: 208Y / 120V Sub Distribution Switchboard			
GEN1	CAT	Eng. #3412	Eng #81Z24922	3/7/2001	CAB 084 Emergency Generator	Emergency Power
Major Component:		Generator #SR4B	Gen #9FG02178			
Emergency Generator			Arrangment #9Y-0448			
	Unit Size:	600 KW				
			Comments:			
LC	Cutler-Hammer	POW-R-Line 2A	AL6109072903-0002	3/7/2001	CAB Varies	CAB
Major Component:		**Lighting Controls**				
	Unit Size:					
			Comments:			
MCCI	Cutler-Hammer	IT 020-FVC 2100 Series	MPH01655	3/7/2001	CAB 081-Mechanical Mezzanine	Solid Separator Chiller 1&2, P1/8
Major Component:		**Motor Control Center**				
	Unit Size:					
			Comments: 480V 3PH 60HZ			

PENNSYLVANIA TURNPIKE COMMISSION

Preventive Maintenance Equipment Inventory - Contractor's Responsibility

HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
MCNEQ	Cutler-Hammer	IT 021-FVC 2100 Series	MPH01655	3/7/2001	CAB 089-Mechanical Room	EF-10,P9/13, P17/20
Major Component:						
Motor Control Center						
	Unit Size:					
			Comments: 208V 3PH 60HZ			
1EH	Cutler-Hammer			3/7/2001	CAB 139-Electrical	1st FL East High Voltage
	Unit Size:	225A				
			Comments: 208/120V 3-Phase 4-Wire			
1EL	Cutler-Hammer			3/7/2001	CAB 139-Electrical	1st FL East Low Voltage
	Unit Size:	225A				
			Comments: 208/120V 3-Phase 4-Wire			
1ELIG	Cutler-Hammer			3/7/2001	CAB 139-Electrical	1st FL East Isolated Ground
	Unit Size:	225A				
			Comments: TVSS 208/120V 3-Phase 4-Wire			
1NH	Cutler-Hammer			3/7/2001	CAB 129-Electric	1st FL North High Voltage
	Unit Size:	225A				
			Comments: 480/227V 3-Phase 4-Wire			
1NL	Cutler-Hammer			3/7/2001	CAB 129-Electric	1st FL North Low Voltage
	Unit Size:	400A				
			Comments: 208/120V 3-Phase 4-Wire			
1NLIG	Cutler-Hammer			3/7/2001	CAB 129-Electric	1st FL North Isolated Gr
	Unit Size:	225A				
			Comments: TVSS 208/120V 3-Phase 4-Wire			
1SH	Cutler-Hammer			3/7/2001	CAB 162-Lunch	1st FL South High Voltage
Major Component:		**Panelboards**				
	Unit Size:	225A				
			Comments: 480/277V 3-Phase 4-Wire			

PENNSYLVANIA TURNPIKE COMMISSION

Preventive Maintenance Equipment Inventory - Contractor's Responsibility

HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
1SL	Cutler-Hammer			3/7/2001	CAB 162-Lunch	1st FL South Low Voltage
Major Component:		**Panelboards**				
	Unit Size:	225A				
			Comments: 208/120V 3-Phase 4-Wire			
1SLIG	Cutler-Hammer			3/7/2001	CAB 162-Lunch	1st FL South Isolated Ground
	Unit Size:	225A				
			Comments: TVSS 208/120V 3-Phase 4-Wire			
1WH	Cutler-Hammer			3/7/2001	CAB 118-Electrical	1st FL West High Voltage
	Unit Size:	225A				
			Comments: 480/227V 3-Phase 4-Wire			
1WL	Cutler-Hammer			3/7/2001	CAB 118-Electrical	1st FL West Low Voltage
	Unit Size:	225A				
			Comments: 208/120V 3-Phase 4-Wire			
1WLIG	Cutler-Hammer			3/7/2001	CAB 118-Electrical	1st FL West Isolated Ground
	Unit Size:	225A				
			Comments: TVSS 208/120V 3-Phase 4-Wire			
2NH	Cutler-Hammer			3/7/2001	CAB 221-Electric	2nd FL North High Voltage
	Unit Size:	225A				
			Comments: 480/227V 3-Phase 4-Wire			
2NL	Cutler-Hammer			3/7/2001	CAB 221-Electric	2nd FL North Low Voltage
	Unit Size:	400A				
			Comments: 408/120V 3-Phase 4-Wire			
2NLIG	Cutler-Hammer			3/7/2001	CAB 221-Electric	2nd FL North Isolated Ground
	Unit Size:	225A				
			Comments: TVSS 208/120V 3-Phase 4-Wire			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
2SH	Cutler-Hammer			3/7/2001	CAB 236-Open Office	2nd FL South High Voltage
Major Component:		**Panelboards**				
	Unit Size:	225A				
			Comments: 480/227V 3-Phase 4-Wire			
2SL	Cutler-Hammer			3/7/2001	CAB 236-Open Office	2nd FL South Low Voltage
	Unit Size:	225A				
			Comments: 208/120V 3-Phase 4-Wire			
2SLIG	Cutler-Hammer			3/7/2001	CAB 236-Open Office	2nd FL South Isolated Ground
	Unit Size:	225A				
			Comments: TVSS 208/120V 3-Phase 4-Wire			
3NH	Cutler-Hammer			3/7/2001	CAB 335-Electric	3rd FL North High Voltage
	Unit Size:	225A				
			Comments: 480/227V 3-Phase 4-Wire			
3NL	Cutler-Hammer			3/7/2001	CAB 335-Electric	3rd FL North Low Voltage
	Unit Size:	400A				
			Comments: 208/120V 3-Phase 4-Wire			
3NLIG	Cutler-Hammer			3/7/2011	CAB 335-Electric	3rd FL North Isolated Ground
	Unit Size:	225A				
			Comments: TVSS			
3SH	Cutler-Hammer			3/7/2001	CAB 356A-Closet	3rd FL South High Voltage
	Unit Size:	225A				
			Comments: 480/277V 3-Phase 4-Wire			
3SL	Cutler-Hammer			3/7/2011	CAB 356A-Closet	3rd FL South Low Voltage
	Unit Size:	225A				
			Comments: 208/120V 3-Phase 4-Wire			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
3SLIG	Cutler-Hammer			3/7/2001	CAB 356A-Closet	3rd FL South Isolated Ground
Major Component:		**Panelboards**				
	Unit Size:	125A				
			Comments: TVSS 208/120V 3-Phase 4-Wire			
BLMEP	Cutler-Hammer			3/7/2001	CAB 089-Boiler Room	Basement Low Voltage MEP
	Unit Size:	225A				
			Comments: 208/120V 3-Phase 4-Wire			
GEH	Cutler-Hammer			3/7/2001	CAB 065-Vestibule	Ground East High Voltage
	Unit Size:	225A				
			Comments: 50A MCB 480/227V 3-Phase 4-Wire			
GEL	Cutler-Hammer			3/7/2001	CAB 065-Vestibule	Ground East Low Voltage
	Unit Size:	400A				
			Comments: 400A MCB 208/120V 3-Phase 4-Wire			
GELIG	Cutler-Hammer			3/7/2001	CAB 048-Office	Ground East Isolated Ground
	Unit Size:	225A				
			Comments: TVSS 150A MCB 208/120V 3-Phase 4-Wire			
GNH	Cutler-Hammer			3/7/2001	CAB 046-Office	Gr Floor North High Voltage
	Unit Size:	125A				
			Comments: 480/277V 3-Phase 4-Wire			
GNL	Cutler-Hammer			3/7/2001	CAB 048-Office	Ground North Low Voltage
	Unit Size:	225A				
			Comments: 208/120V 3-Phase 4-Wire			
GNLIG	Cutler-Hammer			3/7/2001	CAB 048-Office	Gr North Low Volt Isolated Ground
	Unit Size:	225A				
			Comments: 208/120V 3-Phase 4-Wire			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
GSH	Cutler-Hammer			3/7/2001	CAB 078-PC Setup	Ground South High Voltage
Major Component:		**Panelboards**				
	Unit Size:	225A				
			Comments: 50A MCB 480/227V 3-Phase 4-Wire			
GSL	Cutler-Hammer			3/7/2001	CAB 078-PC Setup	Ground South Low Voltage
	Unit Size:	225A				
			Comments: 100A MCB 208/120V 3-Phase 4-Wire			
GSLIG	Cutler-Hammer			3/7/2001	CAB 078-PC Setup	Ground South Isolated Ground
	Unit Size:	225A				
			Comments: TVSS 100A MCB 208/120V 3-Phase 4-Wire			
GWH	Cutler-Hammer			3/7/2001	CAB 028-Mechanical	Ground West High Voltage
	Unit Size:	225A				
			Comments: 350A MCB 208/120V 3-Phase 4-Wire			
GWL	Cutler-Hammer			3/7/2001	CAB 028-Mechanical	Ground West Low Voltage
	Unit Size:	400A				
			Comments: 350A MCB 208/120V 3-Phase 4-Wire			
GWLIG	Cutler-Hammer			3/7/2001	CAB 028-Mechanical	Ground West Isolated Ground
	Unit Size:	225A				
			Comments: TVSS 150A MCB 208/120V 3-Phase 4-Wire			
HEFR	Cutler-Hammer			3/7/2001	CAB 077-Mechanical	High Voltage East
	Unit Size:	225A				
			Comments: 480/227V 3-Phase 3-Wire			
HWFR	Cutler-Hammer			3/7/2001	CAB 016-Mechanical	High Voltage West
	Unit Size:	225A				
			Comments: 480/277V 3-Phase 3-Wire			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
KIT	Cutler-Hammer			3/7/2001	CAB 059-Dishwasher	Kitchen
Major Component:		**Panelboards**				
	Unit Size:	400A				
			Comments: 208/120V 3-Phase 4-Wire			
KITST	Cutler-Hammer			3/7/2001	CAB 059-Dishwasher	Kitchen
	Unit Size:	225A				
			Comments: 208/120V 3-Phase 4-Wire			
MCCNEQP	Cutler-Hammer			3/7/2001	CAB 089-Boiler Room	Normal Emerg Equip Power
	Unit Size:	225A				
			Comments: 208/120V 3-Phase 4-Wire			
OLE	Cutler-Hammer			3/7/2001	CAB 139-Electrical	East Outside Low Voltage
	Unit Size:	225A				
			Comments: 480/227V 3-Phase 4-Wire			
OLN	Cutler-Hammer			3/7/2001	CAB 126-Electrical	North Outside Low Voltage
	Unit Size:	225A				
			Comments: 480/227V 3-Phase 4-Wire			
OLW	Cutler-Hammer			3/7/2011	CAB 118-Electrical	West Outside Low Voltage
	Unit Size:	225A				
			Comments: 480/227V 3-Phase 4-Wire			
1CELB	Cutler-Hammer			3/7/2001	CAB 087-Electrical	1st FL Comm (Normal) Low Vol
Major Component:		**Panelboards - Emergency**				
	Unit Size:	225A				
			Comments: TVSS 208/120V 3-Phase 4-Wire			
1CELC	Cutler-Hammer			3/7/2001	CAB 087-Electrical	1st FL Comm (Normal) Low Vol
	Unit Size:	225A				
			Comments: TVSS 208/120V 3-Phase 4-Wire			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
1CULA	Cutler-Hammer			3/7/2001	CAB 087-Electrical	1st FL Comm (UPS) Low Voltage
Major Component:		**Panelboards -Emergency**				
	Unit Size:	225A				
			Comments: TVSS 208/120V 3-Phase 4-Wire			
1CULB	Cutler-Hammer			3/7/2001	CAB 087-Electrical	1st FL Comm (UPS) Low Voltage
	Unit Size:	225A				
			Comments: TVSS 208/120V 3-Phase 4-Wire			
1CULC	Cutler-Hammer			3/7/2001	CAB 087-Electrical	1st FL Comm (UPS) Low Voltage
	Unit Size:	225A				
			Comments: TVSS 208/120V 3-Phase 4-Wire			
1NELHA	Cutler-Hammer			3/7/2001	CAB 162-Lunch	1st FL Normal Life Safety High Voltage
	Unit Size:	225A				
			Comments: 480/277V 3-Phase 4-Wire			
1NELHB	Cutler-Hammer			3/7/2001	CAB 128-Fire Comma	1st FL Normal Life Safety High Voltage
	Unit Size:	225A				
			Comments: 480/227V 3-Phase 4-Wire			
1NELL	Cutler-Hammer			3/7/2001	CAB 128-Fire Comma	1st FL Normal Life Safety Low Voltage
	Unit Size:	100A				
			Comments: 208/120V 3-Phase 4-Wire			
2NELH	Cutler-Hammer			3/7/2001	CAB 221-Electrical	2nd FL Normal Emerg Life Safety Hi Volt
	Unit Size:	100A				
			Comments: 480/277V 3-Phase 4-Wire			
3	Cutler-Hammer			3/7/2001	CAB 087-Electrical	1st FL Comm (Normal) Low Voltage
	Unit Size:					
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
3NELH	Cutler-Hammer			3/7/2001	CAB 335 Electrical	3rd FL Normal
Major Component:		**Panelboards - Emergency**				Life Safety
						High Voltage
	Unit Size:	100A				
			Comments: 480/277V 3-Phase 4-Wire			
BHELH	Cutler-Hammer			3/7/2001	CAB 089-Boiler Room	Normal Emerg
						Life Safety
						High Voltage
	Unit Size:	225A				
			Comments: 480/277V 3-Phase 4-Wire			
BHNQH	Cutler-Hammer			3/7/2001	CAB 089-Boiler Room	Normal Emerg
						Equip
						High Voltage
	Unit Size:	150A				
			Comments: 480/277V 3-Phase 4-Wire			
BNELL	Cutler-Hammer			3/7/2001	CAB 084-Emergency Generator	Base Normal Emergency
						Life Safety
	Unit Size:	225A				Low Voltage
			Comments: 208/120V 3-Phase 4-Wire			
DATAPDUA	Liebert	**PDU**		3/7/2001	CAB 239-Data Room	Data Power Distribution
	Unit Size:	225A - (2 units)				
			Comments: TVSS 208/120V 3-Phase 4-Wire			
	Unit Size:					
			Comments:			
GCEL	Cutler-Hammer			3/7/2001	CAB 087-Electrical	Call Center (Normal Emer)
						Low Voltage
	Unit Size:	225A				
			Comments: 208/120V 3-Phase 4-Wire			
GCELA	Cutler-Hammer			3/7/2001	CAB 087-Electrical	Call Center (Normal)
						Low Voltage
	Unit Size:	225A				
			Comments: TVSS 208/120V 3-Phase 4-Wire			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
GCELB	Cutler-Hammer			3/7/2001	CAB 087-Electrical	Gr Comm (Normal) Low Voltage
Major Component:		**Panelboards - Emergency**				
	Unit Size:	225A				
			Comments: TVSS 208/120V 3-Phase 4-Wire			
GCELC	Cutler-Hammer			3/7/2001	CAB 087-Electrical	Gr Comm (Normal) Low Voltage
	Unit Size:	225A				
			Comments: TVSS 208/120V 3-Phase 4-Wire			
GCUL	Cutler-Hammer			3/7/2001	CAB 087-Electrical	Communication (UPS) Low Voltage
	Unit Size:	400A				
			Comments: 208/120V 3-Phase 4-Wire			
GCULA	Cutler-Hammer			3/7/2001	CAB 087-Electrical	Gr Comm (UPS) Low Voltage
	Unit Size:	225A				
			Comments: TVSS 208/120V 3-Phase 4-Wire			
GCULB	Cutler-Hammer			3/7/2001	CAB 087-Electrical	Gr Comm (UPS) Low Voltage
	Unit Size:	225A				
			Comments: TVSS 208/120V 3-Phase 4-Wire			
GNELHA	Cutler-Hammer			3/7/2001	CAB 087-Electrical	Gr FL Normal Emergency Life Safety
	Unit Size:	225A				High Voltage
			Comments: 480/277V 3-Phase 4-Wire			
GNELHB	Cutler-Hammer			3/7/2001	CAB 047-Corr	Gr Normal Emergency Life Safety
	Unit Size:	225A				High Voltage
			Comments: 480/277V 3-Phase 4-Wire			
GNELHC	Cutler-Hammer			3/7/2001	CAB 087-Electrical	Gr Normal Emergency Life Safety
	Unit Size:	200A				
			Comments: 480/277V 3-Phase 4-Wire			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
GNEQHA	Cutler-Hammer			3/7/2001	CAB 087-Electrical	Gr Normal Equipment High Voltage
Major Component:		**Panelboards -Emergency**				
	Unit Size:	225A				
			Comments: 480/277V 3-Phase 4-Wire			
UPS-087	Liebert	Series 300 AP 366	M14434F	3/7/2001	CAB 087	Call Center and 239 PDU
	Unit Size:	75 KVA				
			Comments:			
VFD AHU-1	Cutler-Hammer	SV9000		3/7/2001	CAB 016-MER	AHU-1
Major Component:		**Variable Frequency Drive**				
	Unit Size:	50 HP				
			Comments:			
VFD AHU-2	Cutler-Hammer	SV9000		3/7/2001	CAB 077-MER	AHU-2
	Unit Size:	50 HP				
			Comments:			
VFD AHU-6	Cutler-Hammer	SV9000		3/7/2001	CAB 066-MER	AHU-6
	Unit Size:	50 HP				
			Comments:			
VFD AHU-7	Cutler-Hammer	SV9000		3/7/2001	CAB 028-MER	AHU-7
	Unit Size:	50 HP				
			Comments:			
VFD P-15/16	Cutler-Hammer	732AV16322A2394		3/7/2001	CAB 089-MER	Heating Hot Water
	Unit Size:	7.5 HP				
			Comments:			
VFD P-7/8	Cutler-Hammer	SV9000		3/7/2001	CAB 081-MER	Chilled Water
	Unit Size:	70 AMP				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
VFD RF-1	Cutler-Hammer	SV9000		3/7/2001	CAB 077-MER	RF-1
Major Component:		**Variable Frequency Drive**				
	Unit Size:	50 HP				
			Comments:			
VFD RF-2	Cutler-Hammer	SV9000		3/7/2001	CAB 077-MER	RF-2
	Unit Size:	50 HP				
			Comments:			
VFD RF-6	Cutler-Hammer	SV9000		3/7/2001	CAB 066-MER	RF-6
	Unit Size:	50 HP				
			Comments:			
VFD RF-7	Cutler-Hammer	SV9000		3/7/2001	CAB 028-MER	RF-7
	Unit Size:	50 HP				
			Comments:			
	Edwards 200			3/7/2001	CAB - Room 217	Entire Bldg
Major Component:		**Fire Alarm System**				
	Unit Size:	2 Panels				
			Comments:			
FM-200 Microwave		Fike FM-200		3/7/2001	CAB Penthouse	Mircowave Tower Room
	Unit Size:					
			Comments:			
Dry-FSS	Viking			3/7/2001		Garage
Major Component:		**Dry-Automatic Fire Sprinkler System**				
	Unit Size:					
			Comments:			
Wet-AFSS				3/7/2001	CAB Throughout Bldg	Building
Major Component:		**Wet-Automatic Fire Sprinkler System**				
	Unit Size:					
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
ACCU-1	Liebert	DCSF083LP	95110390	3/7/2001	CAB Garage Entr. Eas	CRACU-1
Major Component:		**Air Cooled Condensing Units**				
	Unit Size:	3/4 HP, 3.5 Ton				
		Comments:				
ACCU-3	Liebert			3/7/2001	CAB Roof Board Roo	CRACU-3
	Unit Size:	20 Ton				
		Comments:				
ACCU-4	Liebert			3/7/2001	CAB Roof Board Roo	CRACU-4
	Unit Size:	30 Ton				
		Comments:				
ACCU-5	Trane	TTA120A400		3/7/2001	CAB Outside - South	AHU-4
	Unit Size:	1.0 HP, 10 Ton				
		Comments:				
ACCU-6	Trane	TTA180B400		3/7/2001	CAB Outside - South	AHU-8
	Unit Size:	1/2 HP, 15 Ton				
		Comments:				
ACCU-7	Trane	TTA180B4/TWE180B400		3/7/2001	CAB Outside - South	AHU-9
Major Component:		**Air Cooled Condensing Units**				
	Unit Size:	1/2 HP, 15 Ton				
		Comments:				
AHU-1	Trane	MCCA066UB00C0000U - K99M123030		3/7/2001	CAB 016 MER	Area A/E - East
Major Component:		**Air Handling Unit (CW/HW)**				
	Unit Size:	31490 CFM				
		Comments: (12) 20 x 25 x2				
AHU-2	Trane	MCCA06UB00C000U - K99M123780		3/7/2001	CAB 077 MER	Area A/E - West
	Unit Size:	32620 CFM				
		Comments: (12) 20 x 24 x 12 / (12) 20 x 20 x 2				

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
AHU-3	Trane	MCCA010UB0000C00U	K00A02285	3/7/2001	CAB 016 MER	Training Rooms Ground Floor
	Unit Size:	4300 CFM				
			Comments:			
AHU-5	Trane	MCCA17UB0000C00U	K00A02323	3/7/2001	CAB 077 MER	Kitchen/ Cafeteria
	Unit Size:	8000 CFM				
			Comments: (8) 16 x 20 x 2 / (4) 16 x 25 x 2			
ACU-6	Trane	MCCA035UB0000C00U	K00A02522	3/7/2001	CAB 066 MER	East Wing (B)
	Unit Size:	17500 CFM				
			Comments: (8) 16 x 25 x 2 / (12) 20 x 25 x 2 / (2) 20 x 24 x 2 / (6) 24 x 24 x			
AHU-7	Trane	MCCA035UB0000C00U	K00A02533	3/7/2001	CAB 028 MER	West Wing ©
	Unit Size:	15640 CFM				
			Comments(6) 24 x 24 x 12 / (2) 24 x 20 x 12 / (8) 16 x 25 x 2 / (12) 20 x 25 x			
AHU-4	Trane	MCCA088FCC0B0000A00	K00A12740	3/7/2001	CAB 077 MER	First Floor Call Center
	Unit Size:	3120 CFM				
			Comments: (2) 24x 20 x 12 / (4) 20 x 20 x 2			
AHU-10	Magic Aire	36-BHX-3	W001161236	3/7/2001	CAB Penthouse D	Microwave Room
Major Component:		**Air Handling Unit (Heat Pump)**				
	Unit Size:					
			Comments:			
AHU-4A	Magic Aire	36-BHX3	W001161245	3/7/2001	CAB 081 Computer/L	081 Computer/ LAN
	Unit Size:					
			Comments:			
AHU-8	Trane	TWE180B400CA	R124N486H	3/7/2001	CAB 077 MER	PBX
	Unit Size:	6000 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
AHU-9	Trane	TWE180B400CA	R124JRU6H	3/7/2001	CAB 077 MER	PBX
	Unit Size:	6000 CFM				
			Comments:			
BLR1	Weben Jarco	ER 100 NG	279979-03	1/1/2003	CAB 081 - Mechanica Room	All hot water heating equipment
Major Component:		**Boiler**				
	Unit Size:	1,000,000 BTU				
			Comments:			
BLR2	Weben Jarco	ER 100 NG	279978-03	1/1/2003	CAB 081 - Mechanica Room	All hot water heating equipment
	Unit Size:	1,000,000 BTU				
			Comments:			
BLR3	Weben Jarco	ER 100 NG	279977-03	1/1/2003	CAB 081 - Mechanica Room	All hot water heating equipment
	Unit Size:	1,000,000 BTU				
			Comments:			
BLR4	Weben Jarco	ER 100 NG	279976-03	1/1/2003	CAB 081 - Mechanica Room	All hot water heating equipment
	Unit Size:	1,000,000 BTU				
			Comments:			
BLR5	Weben Jarco	ER 100 NG	279975-03	1/1/2003	CAB 081 - Mechanica Room	All hot water heating equipment
Major Component:		**Boiler**				
	Unit Size:	1,000,000 BTU				
			Comments:			
BLR6	Weben Jarco	ER 100 NG	279974-03	1/1/2003	CAB 081 - Mechanica Room	All hot water heating equipment
	Unit Size:	1,000,000 BTU				
			Comments:			
CUH-1 (127-1)	**Trane**	FFHB0801A-COC6-G		3/7/2001	CAB 127 - Vestibule	127 - Vestibule
Major Component:		**Cabinet Unit Heater**				
	Unit Size:					
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
CUH-1 (127-2)	**Trane**	FFHB0801A-COC6-G		3/7/2001	CAB 127 - Vestibule	127 - Vestibule
Major Component:		**Cabinet Unit Heater**				
Unit Size:						
			Comments:			
CUH-1 (Stair A) Gro	**Trane**	FFHB0801A-COC6-G		3/7/2001	CAB Stair A/ Ground Floor	
Unit Size:						
			Comments:			
CUH-1 (Stair B) Gro	**Trane**	FFHB0801A-COC6-G		3/7/2001	CAB Stair B / Ground	Stair B/ Ground Floor
Unit Size:						
			Comments:			
CUH-1 (Stair D) Gro	**Trane**	FFHB0801A-COC6-G		3/7/2001	CAB Stair D/ Ground Floor	
Unit Size:						
			Comments:			
CUH-1/Quantity 6	**Trane**	FFHB0801A-COC6-G		3/7/2001	CAB Varies	Varies
Unit Size:						
			Comments:			
CUH-2 (Stair A) 1st	**Trane**	FFHB0301A-COC6		3/7/2001	CAB Stair A / 1st Floo	Stair A
Major Component:		**Cabinet Unit Heater**				
Unit Size:						
			Comments:			
CUH-2 (Stair A) 2nd	**Trane**	FFHB0301A-COC6		3/7/2001	CAB Stair A / 2nd Flo	Stair A/2nd FL
Unit Size:						
			Comments:			
CUH-2 (Stair A) 3rd	**Trane**	FFHB0301A-COC6		3/7/2001	CAB Stair A / 3rd Floo	Stair A/3rd FL
Unit Size:						
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
CUH-2 (Stair B) 1st	**Trane**	FFHB0301A-COC6		3/7/2001	CAB Stair B / 1st Floo	Stair B/1st FL
	Unit Size:		Comments:			
CUH-2 (Stair B) 2nd	**Trane**	FFHB0301A-COC6		3/7/2001	CAB Stair B / 2nd Flo	Stair B/2nd FL
	Unit Size:		Comments:			
CUH-2 (Stair B) 3rd	**Trane**	FFHB0301A-COC6		3/7/2001	CAB Stair B / 3rd Floc	Stair B/3rd FL
	Unit Size:		Comments:			
CUH-2 (Stair D) 1st	**Trane**	FFHB0301A-COC6		3/7/2001	CAB Stair D	Stair D
	Unit Size:		Comments:			
CUH-2 (Stair D) 2nd	**Trane**	FFHB0301A-COC6		3/7/2001	CAB Stair D / 2nd Flo	Stair D/2nd FL
	Unit Size:		Comments:			
CUH-2 (Stair D) 3rd	**Trane**	FFHB0301A-COC6		3/7/2001	CAB Stair D / 3rd Floc	Stair D/3rd FL
Major Component:		**Unit Cabinet Heater**				
	Unit Size:		Comments:			
ChilWST				3/7/2001	CAB 081 - MER	Chilled Water
Major Component:		**Chilled Water System - Treatment**				System
	Unit Size:		Comments:			
CH-1	Trane	CHHC1C2F0G0	UAOC6062-6061	3/7/2001	CAB 081 Mechanical	All cooling
Major Component:		**Chiller-Rotary**			Room	equipment
	Unit Size:	250 Ton				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
CH-2	Trane	CHHC1C2F0G0		3/7/2001	CAB 081 Mechanical Room	All cooling equipment
Major Component:		**Chiller-Rotary**				
	Unit Size:	250 Ton				
			Comments:			
CRACU-1	Liebert	BF042A	326562-001	3/7/2001	AB 082 - Electric Roor	082-Elec Room
Major Component:		**Computer Room Air Conditioner**				
	Unit Size:	1800 CFM				
			Comments:			
CondWST				3/7/2001		Condenser Water System
Major Component:		**Condenser Water System - Treatment**				
	Unit Size:					
			Comments:			
CVB-006	Trane	VCC E03		3/7/2001	CAB 006 - Men's Lock	066 - Men's Locker
Major Component:		**Constant Air Vol. Box-Cooling Only**				
	Unit Size:	160 CFM				
			Comments:			
CVB-009	Trane	VCC E03		3/7/2001	CAB 009 - Women's Locker	009 - Women's Locker
	Unit Size:	160 CFM				
			Comments:			
C-1/Quanity-18	**Trane**	CONV RG		3/7/2001	CAB Varies	Varies
Major Component:		**Convectors**				
	Unit Size:					
			Comments:			
CT-1	Marley	CSS251D-LHX	10777	3/7/2001	CAB Outside Building E. Park/Lot	Condenser Water
Major Component:		**Cooling Tower**				
	Unit Size:	GOD 10684				
			Comments:			
CT-2	Marley	7VC284TTFN7233AAL	AV62032S	3/7/2001	CAB Outside Building E. Park/Lot	Condenser Water
	Unit Size:	1500GPM626L18MT				
			Comments:			

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Preventive Maintenance Equipment Inventory - Contractor's Responsibility

HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
DHC-1				3/7/2001	CAB 060-Kitchen	060 Kitchen
Major Component:		**Duct Heating Coil-HW**				
	Unit Size:	1100 CFM/4.8 GPM				
			Comments:			
DHC-2				3/7/2001	CAB 058B-Serving	058B-Serving Area
	Unit Size:	2800 CFM/12.1 GPM				
			Comments:			
DHC-3				3/7/2001	CAB 067 Corridor	058A Cafeteria
	Unit Size:	4000 CFM/17.3 GPM				
			Comments:			
EF-8	Barry Blower	ESI445		3/7/2001	CAB 308 Men's Toile	West Atrium Smoke Exhaust
Major Component:		**Exhaust Fan-Blower**				
	Unit Size:	23250 CFM				
			Comments:			
EF-9	Barry Blower	ESI445		3/7/2001	CAB 349 Men's Toilet	East Atrium Smoke Exhaust
	Unit Size:	23250 CFM				
			Comments:			
EF-1	Penn	SX125BC		3/7/2001	CAB 005-PSP	Ground "E" Toilet Showers
Major Component:		**Exhaust Fan-In Line**				
	Unit Size:	1/2 HP / 1870 CFM				
			Comments: Time Clock - DDC			
EF-10	Penn	SX225BC		3/7/2001	CAB 081-MER Mez	081-Refrig/ Vent
	Unit Size:	5 HP / 2900 CFM				
			Comments: Locat T-stat			
EF-11	Penn	SX105BC		3/7/2001	CAB 081-MER Mez	SubBasement Offices
	Unit Size:	1/2 HP / 1000 CFM				
			Comments: Local T-stat			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
EF-13	Penn	SX095BC		3/7/2001	CAB 081-MER Mez	Penthouse Ventilation
	Unit Size:	1/4 HP / 500 CFM				
			Comments: Local T-stat			
EF-15	Penn	SX095BC		3/7/2001	CAB 005-PSP	013-Storage
	Unit Size:	1/4 HP / 500 CFM				
			Comments: Local T-stat			
EF-16	Penn	SX105BC		3/7/2001	CAB 079-PBXLAN/W/	080-Storage & Transformer
	Unit Size:	1/4 HP / 800 CFM				
			Comments: Time Clock-DDC			
EF-2	Penn	SX095BC		3/7/2001	CAB 006-Men's Locker room	007-Elevator Machine Room
	Unit Size:	1/4 Hp / 470 CFM				
			Comments: Local T-stat			
EF-3	Penn	SX115BC		3/7/2001	308-Men's Toilet	Area "E" West Toilet Rooms
	Unit Size:	1/3 HP / 1220 CFM				
			Comments: Time Clock-DDC			
EF-4	Penn	SX115BC		3/7/2001	CAB 349-Men's Toile	Area "E" East Toilet Rooms
Major Component:		**Exhaust Fan-In Line**				
	Unit Size:	1/3 HP / 1220 CFM				
			Comments: Time Clock_DDC			
EF-5	Penn	SX095BC		3/7/2001	CAB Penhouse	329/330 Toilet Rooms
	Unit Size:	1/4 HP / 440 CFM				
			Comments:			
EF-6	Penn	SC205BC		3/7/2001	CAB 085-Service	085/083 Service/Garage
	Unit Size:	3/4 HP / 2640 CFM				
			Comments: CO and Local T-stat, 2 speed			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
EF-12	Penn	BLL30		3/7/2001	CAB 082-Electrical Room	082-Electrical Room
Major Component:		**Exhaust Fan-Prop**				
	Unit Size:	1/2 HP / 500 CFM				
			Comments: Local T-stat			
EF-14	Penn	BFH24		3/7/2001	CAB Electrical Room	Electrical Room
	Unit Size:	1 HP / 700 CFM				
			Comments: Local T-stat			
EF-17	Penn	BFH24		3/7/2001	CAB 077-MER	077-MER
	Unit Size:	3/4 HP / 2200 CFM				
			Comments: Local T-stat			
EF-18	Penn	BFH24		3/7/2001	CAB 016-MER	016-MER
	Unit Size:	1/2 HP / 1500 CFM				
			Comments: Local T-stat			
EF-7	Penn	BLL24		3/7/2001	CAB 085-Service	084-Emergency Gen
	Unit Size:	1/2 HP / 480 CFM				
			Comments: Local T-stat			
FCU1	Trane			3/7/2001	CAB Varies	Varies
Major Component:		**Fan Coil/Cabinet Unit Heater**				
	Unit Size:					
			Comments:			
FPB-018	Trane	VSVVE0304		3/7/2001	CAB 018-Ticket Production	018-Ticket Production
Major Component:		**Fan Powered Box w/HW**				
	Unit Size:	200 CFM				
			Comments:			
FPB-020	Trane	VSVVE0304		3/7/2001	CAB 020-Office	020/019 Office Storage
	Unit Size:	330 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
FPB-021A	Trane	VSVVE1715		3/7/2001	CAB 021-Open Office	021-Open Office
Major Component:		**Fan Powered Box w/HW**				
	Unit Size:	1380 CFM				
			Comments:			
FPB-021B	Trane	VSVVE1715		3/7/2001	CAB 021-Open Office	021-Open Office
	Unit Size:	1380 CFM				
			Comments:			
FPB-021C	Trane	VSVVE1715		3/7/2001	CAB 021-Open Office	021-Open Office
	Unit Size:	1380 CFM				
			Comments:			
FPB-022	Trane	VSVVE0304		3/7/2001	CAB 022-Office	022-Office
	Unit Size:	200 CFM				
			Comments:			
FPB-025	Trane	VSVVE2440		3/7/2001	CAB 025-Bag Room	025-Bag Room
	Unit Size:	1060 CFM				
			Comments:			
FPB-030	Trane	VSVVE0304		3/7/2001	CAB 030-Training	030-Training
	Unit Size:	320 CFM				
			Comments:			
FPB-032	Trane	VSVVE0304		3/7/2001	CAB 032-Training	032-Training
	Unit Size:	250 CFM				
			Comments:			
FPB-033	Trane	VSVVE0304		3/7/2001	CAB 033-Training	033-Training
	Unit Size:	330 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
FPB-035	Trane	VSVVE0304		3/7/2001	CAB 035-Training	035-Training
Major Component:		**Fan Powered Box w/HW**				
	Unit Size:	280 CFM				
			Comments:			
FPB-036	Trane	VSVVE0304		3/7/2001	CAB 036-Conference	036/034 Conf/Break Out
	Unit Size:	280 CFM				
			Comments:			
FPB-038	Trane	VSVVE0304		3/7/2001	CAB 038-Training	038-Training
	Unit Size:	330 CFM				
			Comments:			
FPB-040	Trane	VSVVE0304		3/7/2001	CAB 040-Conference	040/037 Conf/Break Out
	Unit Size:	280 CFM				
			Comments:			
FPB-041	Trane	VSVVE0304		3/7/2001	CAB 041-Training Pre	041-Training Prep
	Unit Size:	220 CFM				
			Comments:			
FPB-042	Trane	VSVVE0607		3/7/2001	CAB 042	042 Fitness Area
	Unit Size:	460 CFM				
			Comments:			
FPB-043	Trane	VSVVE0607		3/7/2001	CAB 043-Training	043-Training
	Unit Size:	420 CFM				
			Comments:			
FPB-048	Trane	VSVVE0304		3/7/2001	CAB 048-Office	048-Office
	Unit Size:	200 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
FPB-050	Trane	VSVVE1115		3/7/2001	CAB 050-Open Office	050-Open Office
Major Component:		**Fan Powered Box w/HW**				
	Unit Size:	1200 CFM				
			Comments:			
FPB-051	Trane	VSVVE0304		3/7/2001	CAB 051-Conference	051-Conference
	Unit Size:	200 CFM				
			Comments:			
FPB-069	Trane	VSVVE1111		3/7/2001	CAB 069-Open Office	069-Open Office
	Unit Size:	710 CFM				
			Comments:			
FPB-070	Trane	VSVVE0607		3/7/2001	CAB 070/068 Corrido	070/068 Corridor
	Unit Size:	400 CFM				
			Comments:			
FPB-071A	Trane	VSVVE2440		3/7/2001	CAB 071-Print Shop	071-Print Shop
	Unit Size:	2270 CFM				
			Comments:			
FPB-071B	Trane	VSVVE2440		3/7/2001	CAB 071-Print Shop	071-Print Shop
	Unit Size:	2270 CFM				
			Comments:			
FPB-071C	Trane	VSVVE2440		3/7/2001	CAB 071-Print Shop	071-Print Shop
	Unit Size:	2270 CFM				
			Comments:			
FPB-072	Trane	VSVVE0304		3/7/2001	CAB 072-Loading Doc	072-Loading Dock
	Unit Size:	200 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
FPB-074	Trane	VSVVE0304		3/7/2001	CAB 074-Supply/Offi	074-Supply/ Office
Major Component:		**Fan Powered Box w/HW**				
	Unit Size:	300 CFM				
			Comments:			
FPB-075	Trane	VSVVE1111		3/7/2001	CAB 075-Receiving Stock	075-Receiving Stock
	Unit Size:	890 CFM				
			Comments:			
FPB-100	Trane	VSVVE1111		3/7/2001	CAB 100 Elevator Lob	100-Elevator Lobby
	Unit Size:	790 CFM				
			Comments:			
FPB-101	Trane	VSVVE1720		3/7/2001	CAB Room 101	101 Conference
	Unit Size:	1470 CFM				
			Comments:			
FPB-107	Trane	VSVVE0607		3/7/2001	CAB 107-Break Out	107/109 Break Out
	Unit Size:	510 CFM				
			Comments:			
FPB-125	Trane	VSVVE0304		3/7/2001	CAB 125-Conference	125 Conference
	Unit Size:	200 CFM				
			Comments:			
FPB-128	Trane	VSVVE0304		3/7/2001	CAB 128-Fire Comma	128 Fire Command
	Unit Size:	200 CFM				
			Comments:			
FPB-133	Trane	VSVVE0304		3/7/2001	CAB 133-Conference	133-Conference
	Unit Size:	330 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
FPB-135	Trane	VSVVE0304		3/7/2001	CAB 135-Conference	135-Conference
Major Component:		**Fan Powered Box w/HW**				
	Unit Size:	210 CFM				
			Comments:			
FPB-160	Trane	VSVVE0304		3/7/2001	CAB 160-Conference	160-Conference
	Unit Size:	200 CFM				
			Comments:			
FPB-200	Trane	VSVVE1111		3/7/2001	CAB 200-Elevator Lol	200-Elevator Lobby
	Unit Size:	830 CFM				
			Comments:			
FPB-211	Trane	VSVVE0304		3/7/2001	CAB 211-Conference	211-Conference
	Unit Size:	280 CFM				
			Comments:			
FPB-215	Trane	VSVVE0304		3/7/2001	CAB 215-Break Out	215-Break Out
	Unit Size:	200 CFM				
			Comments:			
FPB-219	Trane	VSVVE0304		3/7/2001	CAB 219-Conference	219-Conference
	Unit Size:	200 CFM				
			Comments:			
FPB-220	Trane	VSVVE0304		3/7/2001	CAB 220-Conference	220-Conference
	Unit Size:	200 CFM				
			Comments:			
FPB-222	Trane	VSVVE0304		3/7/2001	CAB 222-Break Out	222-Break Out
	Unit Size:	200 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
FPB-300	Trane	VSVVE0607		3/7/2001	CAB 300-Elevator Lol	300-Elevator Lobby
Major Component:		**Fan Powered Box w/HW**				
	Unit Size:	500 CFM				
			Comments:			
FPB-301	Trane	VSVVE0607		3/7/2001	CAB 301-Office	301-Office
	Unit Size:	520 CFM				
			Comments:			
FPB-303	Trane	VSVVE0607		3/7/2001	CAB 303-Office	303-Office
	Unit Size:	340 CFM				
			Comments:			
FPB-304	Trane	VSVVE0607		3/7/2001	CAB 304-Office	304-Office
	Unit Size:	340 CFM				
			Comments:			
FPB-305	Trane	VSVVE0604		3/7/2001	CAB 305-Office	305-Office
	Unit Size:	340 CFM				
			Comments:			
FPB-306	Trane	VSVVE0607		3/7/2001	CAB 306-Office	306-Office
	Unit Size:	340 CFM				
			Comments:			
FPB-307	Trane	VSVVE0304		3/7/2001	CAB 307-Coffee/Cop	307-Coffee/ Copy
	Unit Size:	280 CFM				
			Comments:			
FPB-316	Trane	VSVVE0304		3/7/2001	CAB 316-Conference	316-Conference
	Unit Size:	300 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
FPB-333	Trane	VSVVE0304		3/7/2001	CAB 333-Conference	333-Conference
Major Component:		**Fan Powered Box w/HW**				
	Unit Size:	280 CFM				
			Comments:			
FPB-334	Trane	VSVVVE0304		3/7/2001	CAB 334-Conference	334-Conference
	Unit Size:	300 CFM				
			Comments:			
FPB-336	Trane	VSVVE0304		3/7/2001	CAB 336-Conference	336-Conference
	Unit Size:	240 CFM				
			Comments:			
FPB-350	Trane	VSVVE0304		3/7/2001	CAB 350-Coffee/Cop	350-Coffee/ Copy
	Unit Size:	250 CFM				
			Comments:			
FPB-351	Trane	VSVVE0607		3/7/2001	CAB 351-Office	351-Office
	Unit Size:	340 CFM				
			Comments:			
FPB-352	Trane	VSVVE0607		3/7/2001	CAB 352-Office	352-Office
	Unit Size:	340 CFM				
			Comments:			
FPB-163	Trane	VSEE1730		3/7/2001	CAB 163-CAC	163-CAC
Major Component:		**Fan Powered Box w/EH**				
	Unit Size:	1840 CFM				
			Comments:			
FPB-165	Trane	VCEE0607		3/7/2001	CAB 165-ITS	165-ITS
	Unit Size:	510 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
FPB-166	Trane	VSEE0607		3/7/2001	CAB 166-Network Control	166-Network Control
Major Component:		**Fan Powered Box w/EH**				
	Unit Size:	420 CFM				
			Comments:			
FPB-353	Trane	VSEE1715		3/7/2001	CAB 353-Small Board Room	353-Small Board Room
	Unit Size:	1440 CFM				
			Comments:			
FPB-358	Trane	VSEF1406		3/7/2001	CAB 358-Large Board Room	358-Large Board Room
	Unit Size:	2200 CFM				
			Comments:			
FT-2 Ft (Quantity 9)	**Trane**			3/7/2001	CAB Varies	Varies
Major Component:		**Finned Tube Radiation**				
	Unit Size:					
			Comments:			
FT-5 Ft (Quantity 13)	**Trane**			3/7/2001	CAB Varies	Varies
	Unit Size:					
			Comments:			
FT-7 Ft (Quantity 5)	**Trane**			3/7/2001	CAB Varies	Varies
Major Component:		**Finned Tube Radiation**				
	Unit Size:					
			Comments:			
FT-9 Ft (Quantity 57)	**Trane**			3/7/2001	CAB Varies	Varies
	Unit Size:					
			Comments:			
GFS-1	Advantage Cont.	AGF-1		1/26/2004	CAB 089-MER	Main Entry De-Icing Sys HW
Major Component:		**Glycol Feed System - De-Icing**				
	Unit Size:	30 Gal -1 1/2 GPM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
GRV-1	Penn			3/7/2001	CAB Roof Above 066	AHU-6
Major Component:		**Gravity Roof Ventilator**				
	Unit Size:	84" x 20"				
			Comments: Relief			
GRV-2	Penn			3/7/2001	CAB Roof Above 028	AHU-7
	Unit Size:	84" x 20"				
			Comments: Relief			
HHWT				3/7/2001	CAB 081-MER	Hot Water
Major Component:		**Heating Hot Water-Treatment**				System
	Unit Size:	950 GPM				
			Comments:			
HUH1/Quantity-18	**Trane**	UHSA038WXDAAC-000A		3/7/2001	CAB Varies	Varies
Major Component:						
	Unit Size:	1/20 HP				
			Comments:			
HUH2/Quantity-4	**Trane**	UHSA090WZDAAE-000A		3/7/2001	CAB Varies	Varies
	Unit Size:	1/8 HP				
			Comments:			
KHE-1	Penn			3/7/2001	CAB Roof Above 066	Kitchen Hood
Major Component:		**Kitchen Hood Exhaust**				#1/ 060 Kitchen
	Unit Size:	2000 CFM				
			Comments: Local switch at hood			
KHE-2	Penn	FX183HFT		3/7/2001	CAB Roof Above 066	Kitchen Hood #2/ 058B Serv Area
	Unit Size:	3 HP / 3760 CFM				
			Comments: Local switch at hood			
303A	Johnson	PE-FEU-DSA111B		3/7/2001	CAB 303A	303A
Major Component:		**Personal Environment Module**				
	Unit Size:					
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
PRV-1	Penn	DX08B		3/7/2001	CAB Roof Above	Dishwasher
Major Component:		**Power Roof Ventilator-Centr. Dome**			066 MER	Hood
	Unit Size:	1/4 HP / 500 CFM				
			Comments: Local switch at hood			
PRV-2	Penn	DX11B		3/7/2001	CAB Roof Above 066	062/063 Toilet Rooms
	Unit Size:	1/4 HP / 950 CFM				
			Comments: Time Clock-DDC			
PRV-3	Penn	DX16B		3/7/2001	CAB Roof Above 066	060-Kitchen
	Unit Size:	1/2 HP / 2370 CFM				
			Comments: Time Clock-DDC			
PRV-4	Penn	DX08B		3/7/2001	CAB Roof Above 066	066-MER
	Unit Size:	1/4 HP / 550 CFM				
			Comments: Local T-stat			
PRV-5	Penn	DX08B		3/7/2001	CAB Roof Above 028	028-MER
	Unit Size:	1/4 HP / 480 CFM				
			Comments: Local T-stat			
PRV-8	Penn	DX08B		3/7/2001	CAB Roof Above 028	86
Major Component:		**Power Roof Ventilator-Centr. Dome**				
	Unit Size:	1/4 HP / 570 CFM				
			Comments: Local T-stat			
PRV-9	Penn	DX12B		3/7/2001	CAB Roof Above 066	071- Print Shop
	Unit Size:	1/3 HP / 1700 CFM				
			Comments: Time Clock-DDC			
PRV-6	Penn	HS48		3/7/2001	CAB Roof Above 356	Atrium Smoke Evac
Major Component:		**Power Roof Ventilator-Vane Axial**				
	Unit Size:	7.5 HP / 23250 CFM				
			Comments: Fire Alarm/Emergency Power			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
PRV-7	Penn	HS48		3/7/2001	CAB Roof Above 356	Atrium Smoke Evac
Major Component:		**Power Roof Ventilator-Vane Axial**				
	Unit Size:	7.5 HP / 23250 CFM				
			Comments: Fire Alarm/Emergency Power			
P-1	Taco	Taco 1024		3/7/2001	CAB 089-MER	Condenser Water
Major Component:		**Pump-Floor Mounted**				
	Unit Size:	15 HP / 750 GPM				
			Comments: Duty			
P-15	Taco	Taco 1030		3/7/2001	CAB 089-MER	Secondary HW
	Unit Size:	7.5 HP / 375 GPM				
			Comments: Duty			
P-16	Taco	Taco 1030		3/7/2001	CAB 089-MER	Secondary HW
	Unit Size:	7.5 HP / 375 GPM				
			Comments: Stand by			
P-2	Taco	Taco 1024		3/7/2001	CAB 089-MER	Condenser Water
	Unit Size:	15 HP / 750 GPM				
			Comments: Stand by			
P-3	Taco	Taco 1024		3/7/2001	CAB 089-MER	Condenser Water
Major Component:		**Pump-Floor Mounted**				
	Unit Size:	15 HP / 750 GPM				
			Comments: Duty			
P-4	Taco	Taco 1224		3/7/2001	CAB 089-MER	CHI-Primary CHW
	Unit Size:	7.5 HP / 600 GPM				
			Comments: Duty			
P-5	Taco	Taco 1224		3/7/2001	CAB 089-MER	Chiller Primary
	Unit Size:	7.5 HP / 600 GPM				
			Comments: Stand by			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
P-6	Taco	Taco 1224		3/7/2001	CAB 089-MER	CH2-Primary
Major Component:		**Pump-Floor Mounted**				CHW
	Unit Size:	7.5 HP / 600 GPM				
			Comments: Duty			
P-7	Taco	Taco 1530		3/7/2001	CAB 089-MER	Secondary CHW
	Unit Size:	20 HP / 950 GPM				
			Comments: Duty			
P-8	Taco	Taco 1530		3/7/2001	CAB 089-MER	Secondary CHW
	Unit Size:	20 HP / 950 GPM				
			Comments: Stand by			
P-10	Taco	Taco 1635		3/7/2001	CAB 089-MER	B-02/Primary
Major Component:		**Pump-In Line**				HW
	Unit Size:	.5 HP / 70 GPM				
			Comments: Stand by			
P-11	Taco	Taco 1635		3/7/2001	CAB 089-MER	B-3 Primary HW
	Unit Size:	.5 HP / 70 GPM				
			Comments:			
P-12	Taco	Taco 1635		3/7/2001	CAB 089-MER	B-4 Primary HW
Major Component:		**Pump-In Line**				
	Unit Size:	.5 HP / 70 GPM				
			Comments:			
P-13	Taco	Taco 1635		3/7/2001	CAB 089-MER	B-5 Primary HW
	Unit Size:	.5 HP / 70 GPM				
			Comments:			
P-14	Taco	Taco 1635		3/7/2001	CAB 089-MER	B-6 Primary HW
	Unit Size:	.5 HP / 70 GPM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
P-17	PACO	PACO 1250-1		3/7/2001	CAB 081-MER	East Perimeter HW
Major Component:		**Pump-In Line**				
	Unit Size:	1/2 HP / 13 GPM				
			Comments:			
P-18	PACO	PACO 1250-1		3/7/2001	CAB 081-MER	South Perimeter HW
	Unit Size:	1 HP / 20 GPM				
			Comments:			
P-19	PACO	PACO 1250-1		3/7/2001	CAB 081-MER	North Perimeter HW
	Unit Size:	3/4 HP / 38 GPM				
			Comments:			
P-20	PACO	PACO 1250-1		3/7/2001	CAB 081-MER	West Perimeter HW
	Unit Size:	1/2 HP / 13 GPM				
			Comments:			
P-21	Bell & Gossett	Series 90 Model 1-1/2A		3/7/2001	CAB 081-MER	Main Entry De-Icing Sys. HW
	Unit Size:	3/4 HP / 18 GPM				
			Comments:			
P-22	Bell & Gossett	Series 90 Model 1-1/2A		3/7/2001	CAB 081-MER	Main Entry De-Icing Sys. HW
Major Component:		**Pump-In Line**				
	Unit Size:	1/2 HP / 16 GPM				
			Comments:			
P-9	Taco	Taco 1635		3/7/2001	CAB 089-MER	B-1/Primary HW
	Unit Size:	.5 HP / 70 GPM				
			Comments: Duty			
UH1	Trane			3/7/2001	CAB Varies	Varies
Major Component:		**Unit Heater-Electric**				
	Unit Size:					
			Comments:			

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Preventive Maintenance Equipment Inventory - Contractor's Responsibility

HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
VVB-046	Trane	VCC E11		3/7/2001	CAB 046-Corridor	046-Corridor
Major Component:		**VAV Box w/HW**				
	Unit Size:	620 CFM				
			Comments:			
VVB-078	Trane	VCC E11		3/7/2001	CAB 078-PC Setup	078-PC Setup
	Unit Size:	670 CFM				
			Comments:			
VVB-113	Trane	VCVV E03		3/7/2001	CAB 113-Corridor	113-Corridor
	Unit Size:	100 CFM				
			Comments:			
VVB-124	Trane	VCVV E03		3/7/2001	CAB 124-Office	124-Office
	Unit Size:	170 CFM				
			Comments:			
VVB-137	Trane	VCVV E03		3/7/2001	CAB 137-Office	137-Office
	Unit Size:	170 CFM				
			Comments:			
VVB-146	Trane	VCVV E03		3/7/2001	CAB 146-Corridor	146-Corridor
	Unit Size:	130 CFM				
			Comments:			
VVB-209	Trane	VCVV E06		3/7/2001	CAB 209-Office	209-Office
	Unit Size:	170 CFM				
			Comments:			
VVB-223	Trane	VCVV E03		3/7/2001	CAB 223-Office	223-Office
	Unit Size:	170 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
VVB-229	Trane	VCVV E06		3/7/2001	CAB 229-Office	229-Office
Major Component:		**VAV Box w/HW**				
	Unit Size:	170 CFM				
			Comments:			
VVB-314	Trane	VCVV E03		3/7/2001	CAB 314-Office	314-Office
	Unit Size:	190 CFM				
			Comments:			
VVB-343	Trane	VCVV E03		3/7/2001	CAB 343-Office	343-Office
	Unit Size:	180 CFM				
			Comments:			
VVB-344	Trane	VCVV E03		3/7/2001	CAB 344-Office	344-Office
	Unit Size:	100 CFM				
			Comments:			
VVB-345	Trane	VCVV E03		3/7/2001	CAB 345-Office	345-Office
	Unit Size:	120 CFM				
			Comments:			
VVB-023	Trane	VCC E06		3/7/2001	CAB 023-Inter Reviev	023-Inter Review
Major Component:		**VAV Box-Cooling Only**				
	Unit Size:					
			Comments:			
VVB-024	Trane	VCC E03		3/7/2001	CAB 024-Batch Ticket	024-Batch Tickets
	Unit Size:	200 CFM				
			Comments:			
VVB-031	Trane	VCC E03		3/7/2001	CAB 031-Kitchen	031-Kitchen
	Unit Size:	140 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
VVB-039	Trane	VCC E06		3/7/2001	CAB 039-Corridor	039-Corridor
Major Component:		**VAV Box-Cooling Only**				
	Unit Size:	400 CFM				
			Comments:			
VVB-044	Trane	VCC E03		3/7/2001	CAB 044-Copy	044-Copy
	Unit Size:	90 CFM				
			Comments:			
VVB-045	Trane	VCC E03		3/7/2001	CAB 045-Copy Cente	045-Copy Center
	Unit Size:	180 CFM				
			Comments:			
VVB-052	Trane	VCC E03		3/7/2001	CAB 052-Office	052-Office
	Unit Size:	100 CFM				
			Comments:			
VVB-053	Trane	VCC E03		3/7/2001	CAB 053-Office	053-Office
	Unit Size:	100 CFM				
			Comments:			
VVB-054	Trane	VCC E03		3/7/2001	CAB 054-Office	054-Office
	Unit Size:	130 CFM				
			Comments:			
VVB-055	Trane	VCC E03		3/7/2001	CAB 055-Office	055-Office
	Unit Size:	160 CFM				
			Comments:			
VVB-057	Trane	VCC E03		3/7/2001	CAB 057-Office	057-Office
	Unit Size:	120 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
VVB-061	Trane	VCC E03		3/7/2001	CAB 061-Office	061-Office
Major Component:		**VAV Box-Cooling Only**				
	Unit Size:	100 CFM				
			Comments:			
VVB-073	Trane	VCC E03		3/7/2001	CAB 073-Mail Room	073-Mail Room
	Unit Size:	200 CFM				
			Comments:			
VVB-108	Trane	VCC E03		3/7/2011 3/7/2001	CAB 108-Office	108-Office
	Unit Size:	90CFM				
			Comments:			
VVB-110	Trane	VCC E03		3/7/2001	CAB 110-Office	110-Office
	Unit Size:	110 CFM				
			Comments:			
VVB-112	Trane	VCC E03		3/7/2001	CAB 112-Office	112-Office
	Unit Size:	110 CFM				
			Comments:			
VVB-114	Trane	VCC E03		3/7/2001	CAB 114-Plotter	114-Plotter
	Unit Size:	140 CFM				
			Comments:			
VVB-115	Trane	VCC E03		3/7/2001	CAB 115-Office	115-Office
	Unit Size:	110 CFM				
			Comments:			
VVB-117	Trane	VCC E03		3/7/2001	CAB 117-Copy	117-Copy
	Unit Size:	140 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
VVB-120	Trane	VCC E03		3/7/2001	CAB 120-Copy	120-Copy
Major Component:		**VAV Box-Cooling Only**				
	Unit Size:	90 CFM				
			Comments:			
VVB-121	Trane	VCC E03		3/7/2001	CAB 121-Office	121-Office
	Unit Size:	110 CFM				
			Comments:			
VVB-122	Trane	VCC E03		3/7/2001	CAB 122-Storage	122-Storage
	Unit Size:	150 CFM				
			Comments:			
VVB-130	Trane	VCC E03		3/7/2001	CAB 130-Office	130-Office
	Unit Size:	80 CFM				
			Comments:			
VVB-132	Trane	VCC E06		3/7/2001	CAB 132-Entry Lobby	132-Entry Lobby
	Unit Size:	460 CFM				
			Comments:			
VVB-140	Trane	VCC E03		3/7/2001	CAB 140-Office	140-Office
	Unit Size:	150 CFM				
			Comments:			
VVB-141	Trane	VCC E03		3/7/2001	CAB 141-Copy	141-Copy
	Unit Size:	140 CFM				
			Comments:			
VVB-143	Trane	VCC E03		3/7/2001	CAB 143-File	143-File
	Unit Size:	150 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
VVB-145	Trane	VCC E03		3/7/2001	CAB 145-Break Out	145-Break Out
Major Component:		**VAV Box-Cooling Only**				
	Unit Size:	100 CFM				
			Comments:			
VVB-147	Trane	VCC E03		3/7/2001	CAB 147-Office	147-Office
	Unit Size:	110 CFM				
			Comments:			
VVB-148	Trane	VCC E03		3/7/2001	CAB 148-Office	148-Office
	Unit Size:	110 CFM				
			Comments:			
VVB-161	Trane	VCC E03		3/7/2001	CAB 161 & 162	161 & 162
	Unit Size:	170 CFM				
			Comments:			
VVB-164	Trane	VCC E03		3/7/2001	CAB 164-Quiet Area	164-Quiet Area
	Unit Size:	180 CFM				
			Comments:			
VVB-205	Trane	VCC E06		3/7/2001	CAB 205-Atrium	205-Atrium
	Unit Size:					
			Comments:			
VVB-207	Trane	VCC E03		3/7/2001	CAB 207-Copy	207-Copy
	Unit Size:	140 CFM				
			Comments:			
VVB-212	Trane	VCC E03		3/7/2001	CAB 212-Office	212-Office
	Unit Size:	110 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
VVB-213	Trane	VCC E03		3/7/2001	CAB 213-Storage	213-Storage
Major Component:		**VAV Box-Cooling Only**				
	Unit Size:	150 CFM				
			Comments:			
VVB-214	Trane	VCC E03		3/7/2001	CAB 214-Office	214-Office
	Unit Size:	170 CFM				
			Comments:			
VVB-216	Trane	VCC E06		3/7/2001	CAB 216-Lobby	216-Lobby
	Unit Size:	310 CFM				
			Comments:			
VVB-224	Trane	VCC E03		3/7/2001	CAB 224-Office	224-Office
	Unit Size:	110 CFM				
			Comments:			
VVB-225	Trane	VCC E03		3/7/2001	CAB 225-Office	225-Office
	Unit Size:	110 CFM				
			Comments:			
VVB-226	Trane	VCC E03		3/7/2001	CAB 226-Office	226-Office
	Unit Size:	110 CFM				
			Comments:			
VVB-231	Trane	VCC E03		3/7/2001	CAB 231-Copy	231-Copy
	Unit Size:	140 CFM				
			Comments:			
VVB-237	Trane	VCC E06		3/7/2001	CAB 237- Atrium	237-Atrium
	Unit Size:	550 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
VVB-302	Trane	VCC E06		3/7/2001	CAB 302-Open Office	302-Open Office
Major Component:		**VAV Box-Cooling Only**				
	Unit Size:		Comments:			
VVB-311	Trane	VCC E03		3/7/2001	CAB 311-Copy	311-Copy
	Unit Size:	140 CFM	Comments:			
VVB-313	Trane	VCC E06		3/7/2001	CAB 313-Office	313-Office
	Unit Size:	390 CFM	Comments:			
VVB-315	Trane	VCC E03		3/7/2001	CAB 315-Office	315-Office
	Unit Size:	100 CFM	Comments:			
VVB-317	Trane	VCC E03		3/7/2001	CAB 317-Office	317-Office
	Unit Size:	90 CFM	Comments:			
VVB-318	Trane	VCC E03		3/7/2001	CAB 318-Office	318-Office
	Unit Size:	130 CFM	Comments:			
VVB-322	Trane	VCC E06		3/7/2001	CAB 322-Office	322-Office
	Unit Size:	250 CFM	Comments:			
VVB-323	Trane	VCC E06		3/7/2001	CAB 323-Files	323-Files
	Unit Size:	260 CFM	Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
VVB-326	Trane	VCC E03		3/7/2001	CAB 326-Storage	326-Storage
Major Component:		**VAV Box-Cooling Only**				
	Unit Size:	110 CFM				
			Comments:			
VVB-327	Trane	VCC E03		3/7/2001	CAB 327-Office	327-Office
	Unit Size:	130 CFM				
			Comments:			
VVB-332A	Trane	VCC E03		3/7/2001	CAB 322A-Corridor	322A-Corridor
	Unit Size:	230 CFM				
			Comments:			
VVB-337	Trane	VCC E06		3/7/2001	CAB 337,340 Storage	337,340 Storage
	Unit Size:	320 CFM				
			Comments:			
VVB-338	Trane	VCC E03		3/7/2001	CAB 338-Copy	338-Copy
	Unit Size:	80 CFM				
			Comments:			
VVB-339	Trane	VCC E03		3/7/2001	CAB 339-Office	339-Office
	Unit Size:	130 CFM				
			Comments:			
VVB-346	Trane	VCC E03		3/7/2001	CAB 346-Copy	346-Copy
	Unit Size:	140 CFM				
			Comments:			
VVB-355	Trane	VCC E06		3/7/2001	CAB 356-Lobby	356-Lobby
	Unit Size:	260 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
VVB-359	Trane	VCC E03		3/7/2001	CAB 359-Kitchen	359-Kitchen
Major Component:		**VAV Box-Cooling Only**				
	Unit Size:	200 CFM				
			Comments:			
DHWSS				3/7/2001	CAB 089 MER	Domestic
Major Component:		**DHW Storage System**				Hot Water
	Unit Size:	750 Gal				
			Comments:			
DWH-1	Lochinvar	AWN286PM	H14H20307877	8/23/2014	CAB 089 MER	Hot Water
Major Component:		**Domestic Hot Water Boiler**				System
	Unit Size:	285,000 BTU HR				
			Comments:			
BFP-1	Watts	909 QT		3/7/2001	CAB 081 MER	Building
Major Component:		**Domestic Water System**				
	Unit Size:	1 1/2"				
			Comments:			
DWC7	EBCO	P8AM		3/7/2001	CAB 003 Foyer	Ground Floor
Major Component:		**Drinking Water Coolers**				A & E
	Unit Size:	8 GPH-100V				
			Comments:			
RO-004	PurcEarth Techologies			3/7/2001	CAB 004-Kitchenette	Rm 004
Major Component:		**Reverse Osmosis System**				
	Unit Size:	50 Gal. @ Day				
			Comments:			
RO-031	PurcEarth Techologies			3/7/2001	CAB 031-Kitchenette	Rm 031
	Unit Size:	50 Gal. @ Day				
			Comments:			
RO-117	PurcEarth Techologies			3/7/2001	CAB 117-Coffee/Cop	Rm 117
	Unit Size:	50 Gal. @ Day				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
RO-120	PurcEarth Techologies			3/7/2001	CAB 120-Coffee/Cop	Rm 120
Major Component:		**Reverse Osmosis System**				
	Unit Size:	50 Gal. @ Day				
			Comments:			
RO-162	PurcEarth Techologies			3/7/2001	CAB 126-Lunch Roon	Rm 162
	Unit Size:	50 Gal. @ Day				
			Comments:			
RO-207	PurcEarth Techologies			3/7/2001	CAB 207-Coffee/Cop	Rm 207
	Unit Size:	50 Gal. @ Day				
			Comments:			
RO-231	PurcEarth Techologies			3/7/2001	CAB 231-Coffee/Cop	Rm 231
	Unit Size:	50 Gal. @ Day				
			Comments:			
RO-307	PurcEarth Techologies			3/7/2001	CAB 307-Coffee/Cop	Rm 307
	Unit Size:	50 Gal. @ Day				
			Comments:			
RO-311	PurcEarth Techologies			3/7/2001	CAB 311-Coffee-Cop	Rm 311
	Unit Size:	50 Gal. @ Day				
			Comments:			
RO-346	PurcEarth Techologies			3/7/2001	CAB 346-Coffee/Cop	Rm 346
	Unit Size:	50 Gal. @ Day				
			Comments:			
RO-350	PurcEarth Techologies			3/7/2001	CAB 350-Coffee/Cop	Rm 350
	Unit Size:	50 Gal. @ Day				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
RO-359	PurcEarth Techologies			3/7/2001	CAB 359-Coffee/Cop	Rm 359
Major Component:		**Reverse Osmosis System**				
	Unit Size:	50 Gal. @ Day				
			Comments:			
	Unit Size:					
			Comments:			
	Unit Size:					
			Comments:			
	Unit Size:					
			Comments:			
	Unit Size:					
			Comments:			
	Unit Size:					
			Comments: Heat Pump			
	Unit Size:					
			Comments:			
	Unit Size:					

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
	EST	Quick Start		3/7/2001	CAB Annex	
Major Component:		**Fire Panels**				
	Unit Size:					
			Comments:			
	Trane	TWA120A300DA	R465174AY	3/7/2001	CAB Annex	
	Unit Size:					
			Comments: Heat Pump			
	Unit Size:					
			Comments:			
	Unit Size:					
			Comments:			
	Unit Size:					
			Comments:			
	Unit Size:					
			Comments:			
	Unit Size:					
			Comments:			
	Unit Size:					
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
V-D1	Price SDV			1/21/2009	TIP	Ex. Office 111
Major Component:		**VAV Box**				
	Unit Size:	200 CFM				
			Comments:			
V-D2	Price SDV			1/21/2009	TIP	Files 112
	Unit Size:	1350 CFM				
			Comments:			
V-D3	Price SDV			1/21/2009	TIP	Ex. Office 110
	Unit Size:	300 CFM				
			Comments:			
V-D4	Price SDV			1/21/2009	TIP	Unassign 132
	Unit Size:	300 CFM				
			Comments:			
V-D5	Price SDV			1/21/2009	TIP	Storage 106
	Unit Size:	150 CFM				
			Comments:			
V-D6	Price SDV			1/21/2009	TIP	Control Rm 105
	Unit Size:	300 CFM				
			Comments:			
V-D7	Price SDV			1/21/2009	TIP	Office 102
	Unit Size:	800 CFM				
			Comments:			
V-D8	Price SDV			1/21/2009	TIP	Office 102
	Unit Size:	800 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
V-D9	Price SDV			1/21/2009	TIP	Staging 101
Major Component:		**VAV Box**				
	Unit Size:	1500 CFM				
			Comments:			
V-D10	Price SDV			1/21/2009	TIP	Corridor 141
	Unit Size:	500 CFM				
			Comments:			
V-D11	Price SDV			1/21/2009	TIP	Corridor 116
	Unit Size:	400 CFM				
			Comments:			
V-D12	Price SDV			1/21/2009	TIP	Printer Rm 115
	Unit Size:	300 CFM				
			Comments:			
V-D13	Price SDV			1/21/2009	TIP	Corridor 128
	Unit Size:	500 CFM				
			Comments:			
V-D14	Price SDV			1/21/2009	TIP	Elec Rm 130
	Unit Size:	300 CFM				
			Comments:			
V-D15	Price SDV			1/21/2009	TIP	Elec Rm 131
	Unit Size:	300 CFM				
			Comments:			
V-D16	Price SDV			1/21/2009	TIP	AHU Rm 104
	Unit Size:	500 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
V-D16	Price SDV			1/21/2009	TIP	AHU Rm 104
Major Component:		**VAV Box**				
	Unit Size:	500 CFM				
			Comments:			
V-S1	Price SDV			1/21/2009	TIP	PBX Batt 114
	Unit Size:	3400 CFM				
			Comments:			
V-S2A	Price SDV			1/21/2009	TIP	UPS Rm A118
	Unit Size:	3500 CFM				
			Comments:			
V-S2B	Price SDV			1/21/2009	TIP	UPS Rm A118
	Unit Size:	3500 CFM				
			Comments:			
V-S3	Price SDV			1/21/2009	TIP	Corridor 119
	Unit Size:	500 CFM				
			Comments:			
V-S4A	Price SDV			1/21/2009	TIP	Batt Rm A120
	Unit Size:	3450 CFM				
			Comments:			
V-S4B	Price SDV			1/21/2009	TIP	Batt Rm A120
	Unit Size:	3450 CFM				
			Comments:			
V-S5	Price SDV			1/21/2009	TIP	Switchgear 123
	Unit Size:	1600 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
V-S6	Price SDV			1/21/2009	TIP	AHU Rm 124
Major Component:		**VAV Box**				
	Unit Size:	800 CFM				
			Comments:			
V-N1	Price SDV			1/21/2009	TIP	Pump Rm 100
	Unit Size:	2000 CFM				
			Comments:			
V-N2A	Price SDV			1/21/2009	TIP	UPS Rm B133
	Unit Size:	3500 CFM				
			Comments:			
V-N2B	Price SDV			1/21/2009	TIP	UPS Rm B133
	Unit Size:	3500 CFM				
			Comments:			
V-N3A	Price SDV			1/21/2009	TIP	Batt Rm B138
	Unit Size:	3450 CFM				
			Comments:			
V-N3B	Price SDV			1/21/2009	TIP	Batt Rm B138
	Unit Size:	3450 CFM				
			Comments:			
V-N4	Price SDV			1/21/2009	TIP	Switch Gear 139
	Unit Size:	1600 CFM				
			Comments:			
V-N5	Price SDV			1/21/2009	TIP	Chiller Rm B140
	Unit Size:	3800 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
V-N6	Price SDV			1/21/2009	TIP	Chiller Rm
Major Component:		**VAV Box**				B140
	Unit Size:	3800 CFM				
			Comments:			
V-N7	Price SDV			1/21/2009	TIP	Boiler Rm 143
	Unit Size:	1800 CFM				
			Comments:			
V-W1	Price SDV			1/21/2009	TIP	AHU Rm 145
	Unit Size:	1200 CFM				
			Comments:			
V-W2	Price SDV			1/21/2009	TIP	Elec Rm 121
	Unit Size:	750 CFM				
			Comments:			
V-E1	Price SDV			1/21/2009	TIP	Custodial
	Unit Size:	1400 CFM				
			Comments:			
V-E2	Price SDV			1/21/2009	TIP	Corridor
	Unit Size:	1500 CFM				
			Comments:			
V-E3	Price SDV			1/21/2009	TIP	Dmarc 136
	Unit Size:	800 CFM				
			Comments:			
V-E4	Price SDV			1/21/2009	TIP	Dmarc 125
	Unit Size:	800 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
V-E5	Price SDV			1/21/2009	TIP	AHU Rm 144
Major Component:		**VAV Box**				
	Unit Size:	1200 CFM				
			Comments:			
V-E6	Price SDV			1/21/2009	TIP	Elec Rm 137
	Unit Size:	750 CFM				
			Comments:			
V-E7	Price SDV			1/21/2009	TIP	Office Area 146
	Unit Size:	560 CFM				
			Comments:			
V-E8	Price SDV			1/21/2009	TIP	Office Area 146
	Unit Size:	880 CFM				
			Comments:			
V-E9	Price SDV			1/21/2009	TIP	Office Area 146
	Unit Size:	560 CFM				
			Comments:			
V-E10	Price SDV			1/21/2009	TIP	Office Area 146
	Unit Size:	880 CFM				
			Comments:			
V-E11	Price SDV			1/21/2009	TIP	Office Area 146
	Unit Size:	520 CFM				
			Comments:			
V-E12	Price SDV			1/21/2009	TIP	Office Area 146
	Unit Size:	880 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
V-E13	Price SDV			1/21/2009	TIP	1DF 149
Major Component:		**VAV Box**				
	Unit Size:	800 CFM				
			Comments:			
V-E14	Price SDV			1/21/2009	TIP	Office Area 146
	Unit Size:	520 CFM				
			Comments:			
V-E15	Price SDV			1/21/2009	TIP	Office Area 146
	Unit Size:	520 CFM				
			Comments:			
V-E16	Price SDV			1/21/2009	TIP	Office Area 146
	Unit Size:	1060 CFM				
			Comments:			
V-E17	Price SDV			1/21/2009	TIP	Office Area 146
	Unit Size:	1320 CFM				
			Comments:			
V-E18	Price SDV			1/21/2009	TIP	Office Area 146
	Unit Size:	1020 CFM				
			Comments:			
V-E19	Price SDV			1/21/2009	TIP	Office Area 146
	Unit Size:	1020 CFM				
			Comments:			
V-E20	Price SDV			1/21/2009	TIP	Office Area 146
	Unit Size:	1305 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
V-E21	Price SDV			1/21/2009	TIP	Conf/Tra 147
Major Component:		**VAV Box**				
	Unit Size:	1440 CFM				
			Comments:			
V-E22	Price SDV			1/21/2009	TIP	Break Rm 1500
	Unit Size:	495 CFM				
			Comments:			
V-E23	Price SDV			1/21/2009	TIP	Conf 155
	Unit Size:	280 CFM				
			Comments:			
V-E24	Price SDV			1/21/2009	TIP	Conf 154
	Unit Size:	210 CFM				
			Comments:			
V-E25	Price SDV			1/21/2009	TIP	Conf 152
	Unit Size:	165 CFM				
			Comments:			
V-E26	Price SDV			1/21/2009	TIP	Conf 153
	Unit Size:	265 CFM				
			Comments:			
V-E27	Price SDV			1/21/2009	TIP	Exc Conf 156
	Unit Size:	630 CFM				
			Comments:			
V-E28	Price SDV			1/21/2009	TIP	Supply
	Unit Size:	165 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
V-E29	Price SDV			1/21/2009	TIP	Office Area 146
Major Component:		**VAV Box**				
	Unit Size:	1225 CFM				
			Comments:			
V-E30	Price SDV			1/21/2009	TIP	Office 161
	Unit Size:	250 CFM				
			Comments:			
V-E31	Price SDV			1/21/2009	TIP	Recp/Wait 165
	Unit Size:	940 CFM				
			Comments:			
V-E32	Price SDV			1/21/2009	TIP	Office 146
	Unit Size:	1060 CFM				
			Comments:			
V-E33	Price SDV			1/21/2009	TIP	Dir Office 162
	Unit Size:	365 CFM				
			Comments:			
AHU-1	York Solution -25			1/21/2009	TIP	Area C
Major Component:		**Air Handler Unit - Hot Water Coil**				Mech/Elec
	Unit Size:	25,000 CFM				
			Comments:			
AHU-2	York Solution -25			1/21/2009	TIP	Area C Mech/Elec
	Unit Size:	25,000 CFM				
			Comments:			
AHU-3	York Solution-20			1/21/2009	TIP	Area D Mech/Elec
	Unit Size:	20,000 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
AHU-4	York Solution-20			1/21/2009	TIP	Area D
Major Component:		**Air Handler Unit- Hot Water Coil**				Mech/Elec
	Unit Size:	20,000 CFM				
			Comments:			
AHU-5	York Solution-9			1/21/2009	TIP	Area C Data Center Offices
	Unit Size:					
			Comments:			
AHU-6	York Solution-30			1/21/2009	TIP	Warehouse
Major Component:						
	Unit Size:	27,000 CFM				
			Comments:	August-17		
AHU-7	York Solution-30			1/21/2009	TIP	Warehouse
	Unit Size:	27,000 CFM				
			Comments:	August-17		
AHU-8	York Solution-30			1/21/2009	TIP	Area E&F
Major Component:						East Offices
	Unit Size:	27,000 CFM				
			Comments:			
AHU-9	York Solution-30			1/21/2009	TIP	Area E&F East Offices
	Unit Size:	27,000 CFM				
			Comments:			
EF-1	Greenheck	GB-360-7		1/21/2009	TIP	Battery Room
Major Component:		**Fan Schedule**				
	Unit Size:	7000 CFM				
			Comments:			
EF-2	Greenheck	GB-360-7		1/21/2009	TIP	Battery Room
	Unit Size:	7000 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
EF-3	Greenheck	GB-220-4		1/21/2009	TIP	Battery Room
	Unit Size:	3500 CFM				
			Comments:			
EF-4	Greenheck	GB-121-4		1/21/2009	TIP	Bathroom
	Unit Size:	750 CFM				
			Comments:			
EF-5	Greenheck	GB-121-4		1/21/2009	TIP	Bathroom
Major Component:		**Fan Schedule**				
	Unit Size:	750 CFM				
			Comments:			
EF-6	Greenheck	GB-131-4		1/21/2009	TIP	Bathroom
	Unit Size:	1200 CFM				
			Comments:			
EF-7	Greenheck	GB-131-4		1/21/2009	TIP	Bathroom
	Unit Size:	1500 CFM				
			Comments:			
EF-8	Greenheck	GB-161-5		1/21/2009	TIP	Refrig Exhaust
	Unit Size:	2000 CFM				
			Comments:			
EF-9	Greenheck	GB-161-5		1/21/2009	TIP	Refrig Exhaust
	Unit Size:	2000 CFM				
			Comments:			
EF-10	Greenheck	GB-360-4		1/21/2009	TIP	Battery Room
	Unit Size:	7000 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
EF-11	Greenheck	GB-360-4		1/21/2009	TIP	Battery Room
	Unit Size:	7000 CFM				
			Comments:			
EF-12	Greenheck	GB-420-15		1/21/2009	TIP	Data Center
	Unit Size:	9000 CFM				
			Comments:			
EF-13	Greenheck	GB-260-7		1/21/2009	TIP	PBX Room
Major Component:		**Fan Schedule**				
	Unit Size:	4000 CFM				
			Comments:			
EF-14	Greenheck	GB-330-10		1/21/2009	TIP	Standby Generator
	Unit Size:	6000 CFM				
			Comments:			
EF-15	Greenheck	GB131-4		1/21/2009	TIP	Life Safety Generator
	Unit Size:	1000 CFM				
			Comments:			
CRAC-A1	Liebert	FH600C		1/21/2009	TIP	Data Center
Major Component:		**Computer Room AC Unit Schedule**				
	Unit Size:	17,100 CFM				
			Comments:			
CRAC-A2	Liebert	FH600C		1/21/2009	TIP	Data Center
	Unit Size:	17,100 CFM				
			Comments: Standby			
CRAC-B1	Liebert	FH600C		1/21/2009	TIP	Data Center
	Unit Size:	17,100 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
CRAC-B2	Liebert	FH600C		1/21/2009	TIP	Data Center
	Unit Size:	17,100 CFM				
			Comments: Standby			
CRAC-C1	Liebert	FH376C		1/21/2009	TIP	PBX Room
	Unit Size:	9100 CFM				
			Comments:			
CRAC-C2	Liebert	FH376C		1/21/2009	TIP	PBX Room
Major Component:		**Computer Room AC Unit Schedule**				
	Unit Size:	9100 CFM				
			Comments: Standby			
CRAC-D1	Liebert	FH376C		1/21/2009	TIP	PBX Room
	Unit Size:	9100 CFM				
			Comments: Standby			
CRAC-E1	Liebert	BU102C		1/21/2009	TIP	Printer Room
	Unit Size:	2800 CFM				
			Comments:			
CRAC-E2	Liebert	BU102C		1/21/2009	TIP	Printer Room
	Unit Size:	2800 CFM				
			Comments: Standby			
HX-A1	Bell Gossett	Model GPX		1/21/2009	TIP	A Side
Major Component:		**Plate and Fram Heat Exchanger Schedule**				Chilled Water
	Unit Size:	399 Tons				
			Comments:			
HX-B1	Bell Gossett	Model GPX		1/21/2009	TIP	B Side Chilled Water
	Unit Size:	399 Tons				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
B-1	Patterson Kelley	N2000-M		1/21/2009	TIP	Heating Water
Major Component:		**Gas Fired Hot Water Boiler Schedule**				
	Unit Size:	2000 MBH				
			Comments:			
B-2	Patterson Kelley	N2000-M		1/21/2009	TIP	Heating Water
	Unit Size:	2000 MBH				
			Comments:			
B-3	Patterson Kelley	N2000-M		1/21/2009	TIP	Heating Water
Major Component:		**Gas Fired Hot Water Boiler Schedule**				
	Unit Size:	2000 MBH				
			Comments:			
B-4	Patterson Kelley	N-2000M		1/21/2009	TIP	Heating Water
	Unit Size:	2000 MBH				
			Comments: Standby			
FOT-1	Xerxes			1/21/2009	TIP	Chilled Water
Major Component:		**Storage Tank Schedule**				
	Unit Size:	10,000 GAL				
			Comments:			
FOT-2	Xerxes			1/21/2009	TIP	Chilled Water
	Unit Size:	10,000 GAL				
			Comments:			
ET-A1	Bell & Gossett	B-300		1/21/2009	TIP	Chilled Water
Major Component:		**Expansion Tank Schedule**				
	Unit Size:	80 GAL				
			Comments:			
ET-B1	Bell & Gossett	B-300		1/21/2009	TIP	Chilled Water
	Unit Size:	80 GAL				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
ET-1	Bell & Gossett	B-1400		1/21/2009	TIP	Heating Water
	Unit Size:	370 GAL				
			Comments:			
SS-A1	Lakos	HTX-0130		1/21/2009	TIP	Condenser
Major Component:		**Solids Separator System Schedule**				Water
	Unit Size:	150 GPM				
			Comments:			
SS-B1	Lakos	HTX-0130		1/21/2009	TIP	Condenser
Major Component:		**Solids Separator System Schedule**				Water
	Unit Size:	150 GPM				
			Comments:			
WF-A1	Filterite	6CMC2		1/21/2009	TIP	
Major Component:		**Water Filter Schedule**				Chilled Water
	Unit Size:	50 GPM				
			Comments:			
WF-B1	Filterite	6CMC2		1/21/2009	TIP	Chilled Water
	Unit Size:	50 GPM				
			Comments:			
WF-1	Filterite	6CMC2		1/21/2009	TIP	Heating Water
	Unit Size:	35 GPM				
			Comments:			
CH-A1	York	TCWL0132SE46		1/21/2009	TIP	Scroll Chiller
Major Component:		**Water Colled Chiller Schedule**				
	Unit Size:	133 Tons				
			Comments:			
CH-A2	York	TCWL0132SE46		1/21/2009	TIP	Scroll Chiller
	Unit Size:	133 Tons				
			Comments: Standby			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
CH-B1	York	TCWL0132SE46		1/21/2009	TIP	Scroll Chiller
	Unit Size:	133 Tons				
			Comments:			
CH-B2	York	TCWL0132SE46		1/21/2009	TIP	Scroll Chiller
	Unit Size:	133 Tons				
			Comments: Standby			
CT-A1	Evapco at 19-76			1/21/2009	TIP	Condenser Water
Major Component:		**Induced Draft Cooling Tower Schedule**				
	Unit Size:	133 Ton				
			Comments:			
CT-A2	Evapco at 19-76			1/21/2009	TIP	Condenser Water
	Unit Size:	133 Ton				
			Comments: Standby			
CT-B1	Evapco at 19-76			1/21/2009	TIP	Condenser Water
	Unit Size:	133 Ton				
			Comments:			
CT-B2	Evapco at 19-76			1/21/2009	TIP	Condenser Water
	Unit Size:	133 Ton				
			Comments: Standby			
P-A1	Bell & Gossett	1510-3AC		1/21/2009	TIP	Primary CHW
Major Component:		**Pump Schedule**				
	Unit Size:	200 GPM				
			Comments:			
P-A2	Bell & Gossett	1510-3AC		1/21/2009	TIP	Primary CHW
	Unit Size:	200 GPM				
			Comments: Standby			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
P-A5	Bell & Gossett	1510-2 1/2 BB		1/21/2009	TIP	Secondary CHW
	Unit Size:	200 GPM				
			Comments:			
P-A6	Bell & Gossett	1510-2 1/2 BB		1/21/2009	TIP	Primary CHW
	Unit Size:	200 GPM				
			Comments: Standby			
P-A9	Bell & Gossett	1510-3BC		1/21/2009	TIP	Primary CHW
Major Component:		**Pump Schedule**				
	Unit Size:	399 GPM				
			Comments:			
P-A10	Bell & Gossett	1510-3BC		1/21/2009	TIP	Secondary CHW
	Unit Size:	399 GPM				
			Comments: Standby			
P-A13	Bell & Gossett	1510-3BC		1/21/2009	TIP	Primary CHW
	Unit Size:	150 GPM				
			Comments:			
P-B1	Bell & Gossett	1510-3AC		1/21/2009	TIP	Primary CHW
	Unit Size:	300 GPM				
			Comments:			
P-B2	Bell & Gossett	1510-3AC		1/21/2009	TIP	Secondary CHW
	Unit Size:	300 GPM				
			Comments: Standby			
P-B5	Bell & Gossett	1510-2 1/2 BB		1/21/2009	TIP	Primary CHW
	Unit Size:	200 GPM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
P-B6	Bell & Gossett	1510-2 1/2 BB		1/21/2009	TIP	Primary CHW
	Unit Size:	200 GPM				
			Comments: Standby			
P-B9	Bell & Gossett	1510-3BC		1/21/2009	TIP	Primary CHW
	Unit Size:	399 GPM				
			Comments:			
P-B10	Bell & Gossett	1510-3BC		1/21/2009	TIP	Primary CHW
Major Component:		**Pump Schedule**				
	Unit Size:	399 GPM				
			Comments: Standby			
P-B13	Bell & Gossett	1510-3BC		1/21/2009	TIP	Primary CHW
	Unit Size:	150 GPM				
			Comments:			
P-1	Bell & Gossett	80-4x4x7		1/21/2009	TIP	Primary CHW
	Unit Size:	115 GPM				
			Comments:			
P-2	Bell & Gossett	80-4x4x7		1/21/2009	TIP	Primary CHW
	Unit Size:	115 GPM				
			Comments:			
P-3	Bell & Gossett	80-4x4x7		1/21/2009	TIP	Primary CHW
	Unit Size:	115 GPM				
			Comments:			
P-4	Bell & Gossett	80-4x4x7		1/21/2009	TIP	Secondary CHW
	Unit Size:	115 GPM				
			Comments: Standby			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
P-5	Bell & Gossett	1510-2BC		1/21/2009	TIP	Primary CHW
	Unit Size:	115 GPM				
			Comments:			
P-6	Bell & Gossett	1510-2BC		1/21/2009	TIP	Primary CHW
	Unit Size:	115 GPM				
			Comments:			
P-7	Bell & Gossett	1510-2BC		1/21/2009	TIP	Primary CHW
Major Component:		**Pump Schedule**				
	Unit Size:	115 GPM				
			Comments:			
P-8	Bell & Gossett	1510-2BC		1/21/2009	TIP	Primary CHW
	Unit Size:	115 GPM				
			Comments: Standby			
FCU-01	Carrier	42 BHC 10		1/21/2009	TIP	DMARC 136
Major Component:		**Fan Coil Unit**				
	Unit Size:	1000 CFM				
			Comments:			
FCU-02	Carrier	42 BHC 10		1/21/2009	TIP	DMARC 125
	Unit Size:	1000 CFM				
			Comments:			
FCU-03	Carrier	42 BHC 10		1/21/2009	TIP	IDF 149
	Unit Size:	1000 CFM				
			Comments:			
FCU-04	Carrier	42 BHC 10		1/21/2009	TIP	IDF 149
	Unit Size:	1000 CFM				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
UH-1 Thru UH-4	Vulcan	HV-108		1/21/2009	TIP	Type: Horiz
Major Component:		**Hot Water Unit Heater**				
	Unit Size:	210 CFM				
			Comments:			
UH-5 Thru UH-9	Vulcan	HV-125A		1/21/2009	TIP	Type: Horiz
	Unit Size:	580 CFM				
			Comments:			
UH-10 & UH-11	Vulcan	HV-108A		1/21/2009	TIP	Type: Horiz
	Unit Size:	210 CFM				
			Comments:			
UH-12 & UH-13	Vulcan	HV-108A		1/21/2009	TIP	Type: Horiz
Major Component:		**Hot Water Unit Heater**				
	Unit Size:	580 CFM				
			Comments:			
GV-1	Greenheck FHI			1/21/2009	TIP - Roof	
Major Component:		**Gravity Ventilator Schedule**				
	Unit Size:	17,600 CFM				
			Comments: Intake-E Generator			
GV-2	Greenheck FHI			1/21/2009	TIP - Roof	
	Unit Size:	64,600 CFM				
			Comments: Intake-S Generator			
GV-3	Greenheck FHI			1/21/2009	TIP - Roof	
	Unit Size:	64,600 CFM				
			Comments: Intake-S Generator			
GV-4	Greenheck FHI			1/21/2009	TIP - Roof	
	Unit Size:	64,600 CFM				
			Comments: Intake-S Generator			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
GV-5	Greenheck FHI			1/21/2009	TIP - Roof	
	Unit Size:	64,600 CFM				
			Comments: Intake-S Generator			
GV-6	Greenheck FHI			1/21/2009	TIP - Roof	
	Unit Size:	30,000 CFM				
			Comments: Intake AHU-7			
GV-7	Greenheck FHI			1/21/2009	TIP - Roof	
	Unit Size:	30,000 CFM				
			Comments: Intake AHU-6			
GV-8	Greenheck FHR			1/21/2009	TIP - Roof	
Major Component:		**Gravity Ventilator Schedule**				
	Unit Size:	23,000 CFM				
			Comments: Relief Office			
GV-9	Greenheck FHR			1/21/2009	TIP - Roof	
	Unit Size:	23,000 CFM				
			Comments: Relief Office			
GV-10	Greenheck FHR			1/21/2009	TIP - Roof	
	Unit Size:	8,000 CFM				
			Comments: Relief Office			
GV-11	Greenheck FHI			1/21/2009	TIP - Roof	
	Unit Size:	8,000 CFM				
			Comments: Intake AHU-5			
GV-12	Greenheck FHI			1/21/2009	TIP - Roof	
	Unit Size:	25,000 CFM				
			Comments: Intake AHU-1			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
GV-13	Greenheck FHI			1/21/2009	TIP - Roof	
	Unit Size:	25,000 CFM				
			Comments: Intake AHU-2			
GV-14	Greenheck FHI			1/21/2009	TIP - Roof	
	Unit Size:	27,000 CFM				
			Comments: Intake AHU-8			
GV-15	Greenheck FHI			1/21/2009	TIP - Roof	
	Unit Size:	27,000 CFM				
			Comments: Intake AHU-9			
GV-16	Greenheck FHR			1/21/2009	TIP - Roof	
Major Component:		**Gravity Ventilator Schedule**				
	Unit Size:	20,000 CFM				
			Comments: Relief Office			
GV-17	Greenheck FHR			1/21/2009	TIP - Roof	
	Unit Size:	20,000 CFM				
			Comments: Relief Office			
GV-18	Greenheck FHR			1/21/2009	TIP - Roof	
	Unit Size:	8,600 CFM				
			Comments: Relief UPS "B" & Swichgear Room B			
GV-19	Greenheck FHR			1/21/2009	TIP - Roof	
	Unit Size:	5,700 CFM				
			Comments: Relief Chiller Room B			
GV-20	Greenheck FHR			1/21/2009	TIP - Roof	
	Unit Size:	5,700 CFM				
			Comments: Relief Chiller Room A			

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Preventive Maintenance Equipment Inventory - Contractor's Responsibility

HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
GV-21	Greenheck FHR			1/21/2009	TIP - Roof	
	Unit Size:	7,000 CFM				
			Comments: Relief UPS "A"			
GV-22	Greenheck FHR			1/21/2009	TIP - Roof	
	Unit Size:	1,600 CFM				
			Comments: Relief Switchgear Room A			
	Liebert	LPL 1150	093030100886L30	1/21/2009	TIP	Data 126
Major Component:		**Leak Detection**				Floor and Roof
	Unit Size:					
			Comments:			
	Liebert	LPL 1150	093030100886L30	1/21/2009	TIP	PBX
Major Component:		**Leak Detection**				
	Unit Size:					
			Comments:			
	Eaton-Cutler Hammer			1/21/2009	TIP 123	Bldg High
Major Component:		**Man Normal Switch Gear A Side**				Voltage Power
	Unit Size:	400 AMP				
			Comments:			
	Cummins	PCIL2005G		1/21/2009	TIP 118	Emergency
Major Component:		**Emergency Paralling Switchgear**				Power
	Unit Size:	4000 AMP				
			Comments:			
	Cummins	PCIL20056-7464		1/21/2009	TIP 118	
Major Component:		**Digital Mater Control**				
	Unit Size:					
			Comments:			
	Cummins	BTPCE 1415032		1/21/2009	TIP 118	
Major Component:		**Automatic Transfer Switch 2**				
	Unit Size:	1200 AMP				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
	Cummins	BTPCC 1327734		1/21/2009	TIP 133	
Major Component:		**Automatic Transfer Switch**				
	Unit Size:	400 AMP				
	Cummins	MPC 0003777		1/21/2009	TIP 118	
Major Component:		**Mechanical Switch Board A**				
	Unit Size:	1200 AMP				
			Comments: 1200 A with metering cabinet, output board and tie breaker			
	Cummins			1/21/2009	TIP 118	
Major Component:		**N/E Switch Gear A**				
	Unit Size:	1600 AMP				
			Comments:			
	Cummins	BTTCF 1513029		1/21/2009	TIP 118	
Major Component:		**Automatic Transfer Switch**				
	Unit Size:	1600 AMP				
			Comments:			
	Cummins	K090065367		1/21/2009	TIP Rm 122	
Major Component:		**Power Command Transfer Switch**				
	Unit Size:	400 AMP				
			Comments:			
	Cummins	DSHAC B72029	K090065966	1/21/2009	TIP Rm 122	Life Safety
Major Component:		**Generator**				
	Unit Size:	250 KVA				
			Comments:			
	Cummins	1000.ODQFAD	L090068317	1/21/2009	TIP Rm 117	E.R. Power
	Unit Size:	1000 KW				
			Comments:			
	Cummins	1000.ODQFAD	L090068318	1/21/2009	TIP Rm 117	E.R. Power
	Unit Size:	1000 KW				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
	Tara Mount Day	Tank UTRS-150		1/21/2009	TIP RM 122	
Major Component:		**Veeder Rout System**				
	Unit Size:					
			Comments:			
Quantity 2	Tara Mount Day	Tank UTRS-150		1/21/2009	TIP RM 117	
Major Component:		**Veeder Rout System**				
	Unit Size:					
			Comments:			
		TLS-300C		1/21/2009	TIP Rm 117	
Major Component:		**Veeder Rout Model**				
	Unit Size:					
			Comments:			
		TLS-300C		1/21/2009	TIP Rm 122	
Major Component:		**Veeder Rout Model**				
	Unit Size:					
			Comments:			
UPS	MGE EPS 7000	E7UPS500 #661924	R09-10090	6/1/2010	Room 133	TIP Data Center
Major Component:		**UPS**				
	Unit Size:	500 KVA				
			Comments:			
UPS	MGE EPS 7000	E7UPS500 #661924	R09-10091	5/17/2010	Room 133	TIP Data Center
	Unit Size:	500 KVA				
			Comments:			
UPS	MGE EPS 7000	E7UPS500 #661930	R09-10092	6/8/2010	Room 118	TIP Data Center
	Unit Size:	500 KVA				
			Comments:			
UPS	MGE EPS 7000	E7UPS500 #661930	R09-10093	5/17/2010	Room 118	TIP Data Center
	Unit Size:	500 KVA				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
UPS	MGE EPS 7000			1/21/2009	TIP - Rm 133	
	Unit Size:	500 KVA				
			Comments:			
FPC	MGE Power Management	PMM225 #663101	L09-10741	4/19/2010	Data 126	TIP Data Center
Major Component:		**FPC**				
	Unit Size:					
			Comments:			
FPC	MGE Power Management	PMM225 #663101	L09-10742	5/4/2010	Data 126	TIP Data Center
	Unit Size:					
			Comments:			
FPC	MGE Power Management	PMM225 #663101	L09-10743	5/12/2010	Data 127	TIP Data Center
	Unit Size:					
			Comments:			
FPC	MGE Power Management	PMM225 #663103	L09-10744	5/10/2010	Data 126	TIP Data Center
Major Component:		**FPC**				
	Unit Size:					
			Comments:			
FPC	MGE Power Management	PMM225 #663103	L09-10745	5/3/2010	Data 126	TIP Data Center
	Unit Size:					
			Comments:			
FPC	MGE Power Management	PMM225 #663125	L09-10746	5/3/2010	PBX 127	TIP Data Center
	Unit Size:					
			Comments:			
FPC	MGE Power Management	PMM225 #663125	L09-10747	5/3/2010	Data 126	TIP Data Center
	Unit Size:					
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
PDU	MGE Remote Power Mge	PMR1S #660101	M09-10289	5/4/2010	Data 126	TIP Data Center
Major Component:		**PDU**				
	Unit Size:					
			Comments:			
PDU	MGE Remote Power Mge	PMR24S #660089	M09-10279	5/3/2010	Data 126	TIP Data Center
	Unit Size:					
			Comments:			
PDU	MGE Remote Power Mge	PMR24S #660089	M09-10280	5/3/2010	Data 126	TIP Data Center
	Unit Size:					
			Comments:			
PDU	MGE Remote Power Mge	PMR24S #66089	M09-10281	5/3/2010	Data 126	TIP Data Center
	Unit Size:					
			Comments:			
PDU	MGE Remote Power Mge	PMR24S #66089	M09-10282	5/3/2010	Data 126	TIP Data Center
Major Component:		**PDU**				
	Unit Size:					
			Comments:			
PDU	MGE Remote Power Mge	PMR24S #66093	M09-10283	5/3/2010	Data 126	TIP Data Center
	Unit Size:					
			Comments:			
PDU	MGE Remote Power Mge	PMR24S #66093	M09-10284	5/4/2010	PBX 127	TIP Data Center
	Unit Size:					
			Comments:			
PDU	MGE Remote Power Mge	PMR24S #66093	M09-10285	5/3/2010	Data 126	TIP Data Center
	Unit Size:					
			Comments:			

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Preventive Maintenance Equipment Inventory - Contractor's Responsibility

HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
PDU	MGE Remote Power Mge	PMR24S #66097	M09-10286	5/3/2010	Data 126	TIP Data Center
	Unit Size:		Comments:			
PDU	MGE Remote Power Mge	PMR24S #66097	M09-10287	5/3/2010	Data 126	TIP Data Center
	Unit Size:		Comments:			
PDU	MGE Remote Power Mge	PMR24S #66097	M09-10288	5/3/2010	PBX 127	TIP Data Center
	Unit Size:		Comments:			
CHU-1	Vulcan	W-1070		1/21/2009	TIP	
Major Component:		**CHU-1**				
	Unit Size:	1/15 HP	Comments:			
CHU-2	Vulcan	W-1070		1/21/2009	TIP	
Major Component:		**CHU-2**				
	Unit Size:	1/15 HP	Comments:			
CHU-3	Vulcan	W-1070		1/21/2009	TIP	
Major Component:		**CHU-3**				
	Unit Size:	1/15 HP	Comments:			
CHU-4	Vulcan	W-1070		1/21/2009	TIP	
Major Component:		**CHU-4**				
	Unit Size:	1/15 HP	Comments:			
CHU-5	Vulcan	W-1070		1/21/2009	TIP	
Major Component:		**CHU-5**				
	Unit Size:	1/15 HP	Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
CHU-6	Vulcan	W-1070		1/21/2009	TIP	
Major Component:		**CHU-6**				
	Unit Size:	1/15 HP				
			Comments:			
CHU-7	Vulcan	W-1070		1/21/2009	TIP	
Major Component:		**CHU-7**				
	Unit Size:	1/15 HP				
			Comments:			
CHU-8	Vulcan	W-1070		1/21/2009	TIP	
Major Component:		**CHU-8**				
	Unit Size:	1/15 HP				
			Comments:			
CHU-9	Vulcan	W-1070		1/21/2009	TIP	
Major Component:		**CHU-9**				
	Unit Size:	1/15 HP				
			Comments:			
	Softswitch 128	XPS24FT		1/21/2009	TIP	Room 123
Major Component:		**Lutron Panel**				
	Unit Size:					
			Comments:			
	Softswitch 128	XPS24FT		1/21/2009	TIP	Room 121
Major Component:		**Lutron Panel**				
	Unit Size:					
			Comments:			
	Softswitch 128	XPS24FT		1/21/2009	TIP	Room 139
Major Component:		**Lutron Panel**				
	Unit Size:					
			Comments:			
	Softswitch 128	XPS24FT		1/21/2009	TIP	Room 137
Major Component:		**Lutron Panel**				
	Unit Size:					
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
	Eaton/Cutler Hammer			1/21/2009	TIP	
Major Component:		**Mechanical Switchboard B**				
	Unit Size:	120UAMT				
			Comments: Metering Cabinet and Outboard			
	Eaton/Cutler Hammer			1/21/2009	TIP	Room 139
Major Component:		**ATS-A Mechanical B**				
	Unit Size:	1200 AMP				
			Comments:			
	Eaton			1/21/2009	TIP	Room 139
Major Component:		**Main Switchgear B**				
	Unit Size:	4000 AMP				
			Comments:			
	Eaton			1/21/2009	TIP	Room 138
Major Component:		**UPS-Output Board**				
	Unit Size:					
			Comments:			
	Eaton			1/21/2009	TIP	Room 138
Major Component:		**N/E Switchgear B**				
	Unit Size:	1600 AMP				
			Comments:			
				1/21/2009	TIP	Room 138
Major Component:		**ATS N/E B**				
	Unit Size:	1600 AMP				
			Comments:			
	Cutler Hammer			1/21/2009	TIP	Room 123
Major Component:		**Transformer Dry Type**				
	Unit Size:	150 KVA				
			Comments:			
	Cutler Hammer			1/21/2009	TIP	Room 123
	Unit Size:	30 KVA				
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
	Cutler Hammer			1/21/2009	TIP	Room 123
	Unit Size:	45 KVA				
			Comments:			
	Faraday	MPC7-ENC-B		1/21/2009	TIP	Room 123
Major Component:		**Fire Panel**				
	Unit Size:					
			Comments:			
	Weil	W-1624-13			TIP	Rain Water Harvest
Major Component:		**Submersible Pump**				System
	Unit Size:	5 HP				
			Comments:			
	Weil	W-1624-13			TIP	Rain Water Harvest
Major Component:		**Submersible Pump**				System
	Unit Size:	5 HP				
			Comments:			
	Weil	W-1624-13			TIP	Rain Water Harvest System
	Unit Size:	5 HP				
			Comments:			
	Weil	W-1624-13			TIP	Rain Water Harvest
Major Component:						System
	Unit Size:	5 HP				
			Comments:			
	Unit Size:					
			Comments:			
	Unit Size:					
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
	Cook	0765D32994-01			TIP Garage	
Major Component:		**Exhaust Fan**				
	Unit Size:					
			Comments:			
	Cook	0765D32994-02			TIP Garage	
	Unit Size:					
			Comments:			
	Cutler Hammer				TIP Garage	
Major Component:		**Electric Panel**				
	Unit Size:	225 AMP				
			Comments: 120 - 240 Volt			
	Unit Size:					
			Comments:			
	Unit Size:					
			Comments:			
	Unit Size:					
			Comments:			
	Unit Size:					
			Comments:			
	Unit Size:					
			Comments:			

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HVAC Tag #	Manufacturer	Model #	Serial #	Date Installed	Equipment Location	Appendix G Area Served
	York	H1RA048506D	WBMM005118	Unkown	Warehouse	
Major Component:		**HVAC Units**			2715 S. Front St	
					Steelton, PA	
	Unit Size:	4 Ton				
			Comments: Forced Air - Natural gas			
	York	H1RA048506D	WBMM023911	Unkown	Warehouse	
					2715 S. Front St	
					Steelton, PA	
	Unit Size:	4 Ton				
			Comments: Forced Air - Natural gas			
	York	H1RA048506D	WBMM005017	Unknown	Warehouse	
					2715 S. Front St	
					Steelton, PA	
	Unit Size:	4 Ton				
			Comments: Forced Air - Natural gas			
	York	H1RA048506D	WBMM005015	Unknown	Warehouse	
					2715 S. Front St	
					Steelton, PA	
	Unit Size:	4 Ton				
			Comments: Forced Air - Natural gas			
	York	ZF120N20N2AAA5A	N1N1457985	2013	Warehouse	
	(New unit)				2715 S. Front St	
					Steelton, PA	
	Unit Size:					
			Comments:			
	York	ZF102N5N2AAA5A	N1L1354957	2013	Warehouse	
	(New unit)				2715 S. Front St	
					Steelton, PA	
	Unit Size:					
			Comments:			
	York	D3NZ024N05606A	(S)N1C1866516	2013	Warehouse	
	(New unit)				2715 S. Front St	
					Steelton, PA	
	Unit Size:					
			Comments:			
Notifier by Honeywell		NFW2-100		Unknown	Warehouse	Warehouse
Major Component:		**Fire Panel**			2715 S. Front St	
					Steelton, PA	
	Unit Size:					
			Comments: Fire Warden 100-2			