

**Memo**  
**East Goshen Township**  
**1580 Paoli Pike**  
**West Chester, PA 19380**

**Voice (610) 692-7171**

**Fax (610) 425-8950**

**E-mail [rsmith@eastgoshen.org](mailto:rsmith@eastgoshen.org)**

Date: November 15, 2016  
To: Daily Local News  
From: Rick Smith, Township Manager  
Re: Bid Notice

December 2, 2016 - The East Goshen Township Board of Supervisors is soliciting bids for HVAC Services.

One copy of the proposal form and other requested documentation must be submitted to the Township, East Goshen Township 1580 Paoli Pike, West Chester, PA 19380, by no later than 10:00 A.M. on December 2, 2016, at which time the bids will be opened and publicly read.

Bid specifications and proposal forms may be obtained from the East Goshen Township web page [www.eastgoshen.org](http://www.eastgoshen.org). See "Legal and Bid Notices" under the "About Us" tab.

Questions regarding this bid should be directed to the Township Manager at (610) 692-7171. Or by e-mail at [rsmith@eastgoshen.org](mailto:rsmith@eastgoshen.org)

East Goshen Township reserves the right to waive technicalities, to reject any or all bids or items herein and to make the award that is in the best interests of the Township.

Louis F. Smith, Jr.  
Township Manager

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Please publish November 16 and 21, 2016  
Please send proof of publication and invoice to:

Louis F. Smith, Jr. Township Manager  
East Goshen Township  
1580 Paoli Pike

**EAST GOSHEN TOWNSHIP  
HVAC SERVICES SPECIFICATIONS**

**November 15, 2016**

**INSTRUCTIONS TO BIDDERS**

**1. SCOPE OF WORK**

A. Preventative Maintenance and Repairs: The work to be performed shall consist of supplying the required labor, equipment and materials necessary to perform preventive maintenance and repairs to the HVAC Systems at the following municipal buildings that are owned by East Goshen Township (Township):

Township Building at 1580 Paoli Pike  
Public Works Annex at 1570 Paoli Pike  
District Court at 1572 Paoli Pike  
Police Substation at 1574 Paoli Pike  
Plank House at 1600 East Boot Road  
Blacksmith Shop at 1600 East Boot Road

(Note: The Township is currently out to bid for the replacement of the heat pump at the Blacksmith Shop. Accordingly this unit will not require preventative maintenance service and a filter change in April 2017. Preventative maintenance service and filter changes will be required thereafter.)

B. The list of HVAC equipment is attached as EXHIBIT A. This list is based on the best information available to the Township.

2. EXAMINATION OF THE PROPERTY: Bidders shall inspect the HVAC Systems in each building so that they can make their own judgment concerning all circumstances affecting the cost of service in question and the nature of the work to be performed. Bidders shall assume all risks, whether or not patent, latent, known, hidden or foreseeable. Prospective bidders may inspect the HVAC Systems only during normal business hours.

**Persons wanting to inspect the HVAC Systems must contact the Sue Smith at 610-692-7171 to schedule an inspection. Inspections will only be conducted on November 21, 23, 28 & 30.**

3. SPECIFICATIONS AND DOCUMENTS: Bidders are advised to examine carefully the specifications and all documents describing the proposed work and to make their own independent judgment with respect to the circumstances affecting the cost of work required by said documentation.

4. EAST GOSHEN TOWNSHIP RESPONSIBILITIES:

- A. The Township shall contact the Contractor at the first evidence of a problem.
- B. The Township will advise the Contractor of the primary and secondary contact persons for the Township.

5. CONTRACTORS SCOPE OF WORK AND OBLIGATIONS: The Contractor shall supply all labor, equipment and materials necessary to perform the following:

- A. Inspection and preventative maintenance of the HVAC equipment as follows. The cost for this service shall be included in the Annual Cost.
  - a. The Contractor shall conduct two (2) preventative maintenance inspections a year.
    - i. One shall be conducted in April the second should be conducted in October.
  - b. The Contractor shall (if applicable) clean the condensate drainage system within each unit, including the trap which is located adjacent to each unit.
  - c. The Contractor shall (if applicable) provide treatment to control bacteria in the condensate pans and drainage systems.
  - d. The Contractor shall perform preventative maintenance on all units in accordance with the manufacturer's recommendations.
  - e. The Contractor shall provide the Township with a written report of the work done as preventative maintenance, at the conclusion of the preventative maintenance inspection.
  - f. At each preventative maintenance visit the Contractor shall (if applicable):
    - i. Check belts, bearings and sheaves for wear or damage.
    - ii. Check fans for cracks, looseness or abnormal vibration.
    - iii. Check pump couplings for wear and damage.
    - iv. Check seal and pipe connections for leaks.
    - v. Check and log suction and discharge pressures.
    - vi. Check and log amp draws.
    - vii. Check actuators for pneumatic air leaks, broken supports and proper operation.
    - viii. Check the cooling and heating coils for leaks, lint and dirt condition.
    - ix. Check and lubricate motors.
    - x. Check motor bearings, wiring connections and amp draws.
    - xi. Check and clean coil drain pans.
  - g. Annually the Contractor shall:
    - i. Check and lubricate gearboxes.
    - ii. Check and tighten electrical connections.
    - iii. Start chiller and perform operational check.
    - iv. Check and log system pressures.
    - v. Check and log the approach.
    - vi. Perform and log Full Load Performance check.

- vii. Disassemble and clean magnetic starters.
- viii. Check and adjust operating and safety controls.
- ix. Check and adjust safety controls.
- x. Check and adjust unloaders, bypass valves, etc.
- xi. Check and adjust outside, mixed and return air dampers.
- xii. Check and adjust actuator and damper linkages.
- xiii. Disassemble and clean pump strainers.
- xiv. Evaporator coils will be cleaned on an annual basis.
- xv. Condenser coils will be cleaned with chemical cleaner on an annual basis.

- B. Air Filter Service for all HVAC units. The cost for this service shall be included in the Annual Cost.
- a. The Contractor shall service the air filters on all of the HVAC units (if applicable) two (2) times a year in April and October.
  - b. Contractor shall supply all filters for all of the HVAC units.
- C. Service that is specific to the closed loop system at the Township Building. The cost for this service shall be included in the Annual Cost.
- a. The Contractor shall maintain an ethanol level of twenty-five percent (25%) by volume in the closed loop system.
  - b. The Contractor shall provide confirmation of this at each preventative maintenance inspection.
- D. Repairs to the HVAC equipment as follows:
- a. The Contractor shall provide repair services at the specified hourly rate for repairs conducted between the hours of 7:00 AM and 5:00 PM Monday thru Friday.
  - b. The Contractor shall provide repair service during any other time at the specified overtime rate.
  - c. The aforementioned hourly rates shall be all inclusive.
  - d. The Contractor shall not bill the Township for cleaning supplies, refrigerant reclamation or disposal, travel time, meals, fuel surcharges, mileage, or tolls.
  - e. The Contractor may bill a minimum of one hour for all service calls.
  - f. The Contractor shall provide the Township with a written estimate for all repair work prior to the commencement of any work. The estimate shall include the breakdown for parts & materials and labor.
  - g. The Contractor shall not perform any repair work without written authorization from the Township.
  - h. The Contractor shall be responsible for the disposal of any parts and materials that are replaced.
  - i. The Township, in its sole discretion, may require independent verification from the parts supplier of the prices paid by the Contractor for repair parts and materials.

- E. Township Building - HVAC Control System – The HVAC system at the Township Building is controlled by the StruxureWare computer program. The Township has a separate contract for the monitoring and software maintenance for this computer program.
- F. Replacement of Units – If a HVAC unit needs repair, the Township specifically reserves the right to solicit bids or proposals for the replacement of the HVAC unit from other HVAC Contractors.

6. WORKMEN'S COMPENSATION INSURANCE: The Contractor during the term of this contract shall carry workmen's compensation insurance, insuring and covering any and all persons employed by him in the performance of this contract, and before starting work on the contract, shall annually file a certificate from the insurance company certifying the issuance of such company's insurance policy and the payment of the premium thereof with the Township.

**A certificate of insurance depicting the aforementioned coverage shall be submitted within ten (10) days after notification of award of the contract.**

7. LIABILITY INSURANCE: The contractor shall maintain, during the term of this contract at its sole expense, the following minimum liability insurance coverage:

A. General public liability insurance (non-automotive) for bodily injury and property damage in the amount of \$500,000.00 per occurrence but with the aggregate limit of \$1,000,000.00.

B. Automotive liability insurance for bodily injury and property damage in the amount of \$500,000.00.

The aforesaid policies of insurance and others that may be necessary to comply herewith shall be maintained in the amount set forth above and shall, inter alia, **NAME THE Township AS AN ADDITIONAL NAMED INSURED** and be designed to protect the Township from any and all claims for damage of any kind or any nature whatsoever, including but not limited to wrongful death, which may arise from the obligation of the contractor in the performance of this contract, whether such obligation is controlled by the contractor himself or by someone either directly or indirectly employed by him for the purpose of accomplishing some obligation incumbent upon the contractor by the terms of this contract and shall otherwise indemnify and hold the Township harmless from any and all manner of claims, lawsuits, judgment, damages and executions and shall provide, at the insurer's expense, all necessary legal aid, counsel and representation.

C. CANCELLATION OF INSURANCE: Each and every policy of insurance maintained in accordance with the terms of these specifications or the contracts entered hereunder,

shall carry with it an endorsement to the effect that the insurance carrier will convey to the Township, by certified mail, return receipt requested, written notice of any modification, alterations or cancellations of any policy or policies or the terms thereof; and said written notice must be received by the Township, at least ten (10) days prior to the effective date of any such modification, alteration or cancellation. If such modifications, alterations or cancellations shall cause the insurance coverage required hereunder to fail to meet the minimum requirement set forth herein, the contractor shall be deemed to be in default and the Township shall terminate this agreement as of the effective date of said change in insurance coverage and the surety on the performance bond shall be held responsible by the Township for any loss arising as a result thereof.

D. GOVERNMENTAL IMMUNITY WAIVER: All policies of insurance required pursuant to these specifications or the contract(s) entered into therein under, shall waive any governmental immunity, if any, of the Township and shall extend to and include all direct and indirect agents and employees of the contractor and shall include policies of liability insurance on all vehicles and equipment utilized or in any way connected with the service to be rendered by the contractor pursuant to the terms of this contract.

**A certificate of insurance depicting the aforementioned coverage limits and naming the Township as additional insured shall be submitted within ten (10) days after notification of award of the contract.**

8. HOLD HARMLESS PROVISION: The contractor will indemnify and save harmless the Township and all its officers, agents and employees from any actions, liabilities or claims resulting from the performance of the contract.

9. BONDS:

A. Bid Bond **A Bid bond is not required.**

B. Performance Bond The successful bidder will be required to obtain and post a performance bond in the amount of 50% of the contract amount. The performance bond shall be in a form acceptable to the Township. In lieu of a performance bond the Contractor may post a certified check or a letter of credit with the Township. The check will be deposited into a non-interest bearing account by the Township for the duration of the contract. **The performance bond, letter of credit or check shall be submitted within ten (10) days after notification of the award of the contract.**

11. FORM OF BID: All bids must be on the form provided by the Township. A bidder may not withdraw his bid for a period of ninety (90) days after the bid opening.

12. BID AWARD: The determination of the low bidder shall be determined in accordance with the formula set forth in the schedule of prices. The selection of the low bidder shall be at the sole

discretion of the Township. The Township specifically reserves the right to waive technicalities, to reject any or all bids or items herein, and to make the award that is in the best interests of the Township.

13. NOTICE TO PROCEED: Upon receipt of the required performance bond and certificate of insurance and execution of the agreement, a notice to proceed shall be issued by the Township.

14. BIDDERS' QUALIFICATIONS: Bidders submitting proposals must have previous experience in the maintenance and repair of similar HVAC Systems. **The bidder shall submit a minimum of five (5) references with their bid.**

15. TERM: The term of the HVAC Services contract shall be for a period of one (1) year commencing on January 1, 2017, with the Township having the option to renew the contract for two (2) additional one (1) year periods, which option shall be exercised by the Township no later than thirty (30) days before the expiration date(s) of the contract.

If the contract is extended the cost for the Annual Cost, Standard Hourly Rate and the Overtime Hourly Rate will be increased by a percentage equal to the Consumer Price Index US City Average for all Urban Consumers for the twelve month period ending in October of 2017 and 2018 as applicable.

16. PAYMENT: The Contractor shall invoice for the Annual Cost indicated on the Schedule of Prices as follows:

- A. 50% of the Annual Cost may be invoiced at the conclusion of the preventative maintenance in April.
- B. 50% of the Annual Cost may be invoiced at the conclusion of the preventative maintenance in October.
- C. The Contractor shall invoice for repairs upon completion of the work.

17. ADDENDUM(S):

- A. Addendum(s) will be posted on the Township Web Page [www.eastgoshen.org](http://www.eastgoshen.org) on the Public bids and RFP page. See "Legal and Bid Notices" under the "About Us" tab.
- B. Bidder shall acknowledge receipt of addendum(s) on the proposal form.

**EAST GOSHEN TOWNSHIP  
HVAC SERVICES PROPOSAL FORM**

Submitted by (please print or type):

Date: \_\_\_\_\_

Firm Name \_\_\_\_\_

Address \_\_\_\_\_  
\_\_\_\_\_

Contact Person \_\_\_\_\_

Telephone \_\_\_\_\_

E-Mail \_\_\_\_\_

PA Home Improvement Consumer Protection Act No. \_\_\_\_\_

This proposal is submitted in accordance with your advertisement inviting bids to be received by the East Goshen Township for HVAC Services at the locations indicated in the Instructions to Bidder dated November 15, 2016.

After examining the HVAC Systems listed in the specifications, we confirm that we have read and understand the specifications as set forth in the Instructions to Bidders, and hereby propose to furnish said services in strict accordance with all specifications for the sums indicated, and the undersigned herein agrees to furnish all labor, materials and equipment and to perform all work necessary to complete in a workmanlike manner, the work described in the Instructions to Bidders to the satisfaction and acceptance of the Township for the sum as stated below and on the attached pages:

BID AMOUNT \_\_\_\_\_  
(Total from Worksheet)

In submitting this proposal, it is understood that it is the right of the Township to reject any and all proposals or parts thereof, and to waive any informalities or technicalities in said proposals. This proposal shall remain firm for at least ninety (90) days from bid opening.

The undersigned further agrees that he or it possesses the necessary skill required to determine the adequacy of the Township's bid specifications for the purpose of arriving at the contract

price, and that he has exercised this skill and that he finds them fit and sufficient for the purpose intended and free from ambiguities, and also has carefully examined the Instructions to Bidders and the site of the work, and from his own investigations, has satisfied himself as to the nature of the work, the equipment needed for the performance of the work, the general and local conditions, and other matters which may in any way affect the work or its performance and that he has complied with every requirement of this invitation.

The undersigned hereby acknowledges receipt of the following addendum(s):

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**Accompanying this Proposal are the following:**

- **Bidders Qualifications required pursuant to Section 14 of the Instructions to Bidders, and**
- **The Schedule of Prices and Worksheet for the Calculation of the Bid Amount.**

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Attest:

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(Printed or typewritten name of person executing proposal form)

**HVAC SERVICES**  
**SCHEDULE OF PRICES**

FIRM NAME \_\_\_\_\_

**INSPECTION and PREVENTATIVE MAINTENANCE**

ANNUAL COST \_\_\_\_\_

**STANDARD HOURLY RATE FOR REPAIRS MONDAY THRU FRIDAY BETWEEN  
THE HOURS OF 7:00 AM & 5:00 PM**

HOURLY RATE \_\_\_\_\_

**OVERTIME HOURLY RATE FOR REPAIRS FOR ALL OTHER TIMES**

HOURLY RATE \_\_\_\_\_

**PERCENTAGE OF MARK UP ON PARTS**

PERCENTAGE \_\_\_\_\_

**WORKSHEET FOR THE CALCULATION OF THE BID AMOUNT**

ANNUAL COST \_\_\_\_\_

+ FIFTY (50) HOURS OF STANDARD REPAIRS \_\_\_\_\_

+ TEN (10) HOURS OF OVERTIME REPAIRS \_\_\_\_\_

+ MARK UP IN DOLLARS ON \$5,000 OF PARTS \_\_\_\_\_  
(Do not include the \$5,000 in parts)

TOTAL (BID AMOUNT) \_\_\_\_\_  
(This amount should be written on Page 10)

## AGREEMENT

THIS AGREEMENT, made the \_\_\_\_\_ day of \_\_\_\_\_, 2011

between \_\_\_\_\_  
hereinafter called the CONTRACTOR, and East Goshen Township, Chester County,  
Pennsylvania, hereinafter called the TOWNSHIP.

Witnessed that the CONTRACTOR and the TOWNSHIP for the considerations hereafter named,  
agree as follows:

ARTICLE 1 - SCOPE OF WORK: The CONTRACTOR shall furnish all the materials,  
equipment and labor and perform all of the work indicated in the HVAC Services Specifications,  
Instructions to Bidders, dated November 15, 2016.

ARTICLE 2 - THE CONTRACT: The TOWNSHIP shall pay the CONTRACTOR for the  
performance of the contract, in accordance with the HVAC Services Specifications, Instructions  
to Bidders, dated November 15, 2016, as follows: At the first regularly scheduled meeting of the  
Board of Supervisors after receipt of the invoice.

ARTICLE 3 - THE CONTRACT DOCUMENTS: This Agreement and the following  
enumerated documents from the contract and they are as fully a part of the contract as if attached  
hereto or hereinafter repeated, and are termed the Contract Documents.

1. Notice to Bidders
2. Proposal Form and Schedule of Prices and Worksheet for the Calculation of the Bid  
Amount
3. HVAC Services Specifications, Instructions to Bidders, dated November 15, 2016
4. Performance Bond
5. Addenda (if any)

ARTICLE 4 - COMMENCEMENT TIME: The CONTRACTOR hereby agrees to commence  
work under this contract on the \_\_\_\_\_ day of \_\_\_\_\_, 2017.

ARTICLE 5 – JURISDICTION: This Agreement shall be interpreted under the laws of the State  
of Pennsylvania.

ARTICLE 6 - EARLY TERMINATION: The TOWNSHIP reserves the right to terminate this  
Agreement for cause with thirty (30) days notice. Examples of cause for early termination  
include a material breach of any terms of this agreement, failure to perform the services specified  
in this Agreement, failure to provide services in a timely manner, or similar failure to perform.

ARTICLE 7 - NON-WAIVER: The failure by one party to require performance of any provision shall not affect that party's right to require performance at any time thereafter, nor shall a waiver of any breach or default of this Agreement constitute a waiver of any subsequent breach or default or a waiver of the provision itself.

ARTICLE 8 - SAVINGS: If any provision of this Agreement is held unenforceable, then such provision will be modified to reflect the parties' intention. All remaining provisions of this Agreement shall remain in full force and effect.

ARTICLE 9 - ASSIGNMENT: The Contractor may not assign, directly or indirectly, all or part of its rights or obligations under this Agreement (except for testing the ethanol) without the prior written consent of the TOWNSHIP.

IN WITNESS WHEREOF, the party hereto set their hands and seals the day and year first above written.

EAST GOSHEN TOWNSHIP  
BOARD OF SUPERVISORS

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
Township Secretary

CONTRACTOR

\_\_\_\_\_  
Witness

\_\_\_\_\_  
Title

# Air Conditioning Inspection Report

EXHIBIT A



Business: 18 Line Road  
 Malvern, PA 19355  
 Mailing: 1906 Tustin Street  
 Philadelphia, PA 19152  
 info@premechllc.com  
 Mechanical(s): Jim Bennett

Date: 09/23/2016  
 Dept #: 215.722.3671  
 PO #: Malvern, PA 19355  
 Invoice #: SC-049-16-2  
 Id #: 935  
 Outdoor Temp: 78.6F  
 Indoor Temp: 78.6F  
 Outdoor Humidity: NA  
 Indoor Humidity: NA

Customer: East Goshen Township  
 Address: 1580 Paoli Pike, West Chester, PA 19380-6199  
 Inspection OK: Satisfactory \* See notes RPL: Replaced ADJ: Adjusted CLN: Clean CHG: Changed LUB: Lubricated  
 Symbols:

EQUIPMENT		Compressor				Temperatures				Evap Fan				Cond				Belt		CTRL					
Make	Model	Serial	Location	Temp (1)	Rated (1)	Draw (1)	Rated (2)	Draw (2)	Rated (3)	Draw (3)	Rated (4)	Draw (4)	Liquid	Suction	Rated (S)	Draw (S)	Rated (R)	Draw (R)	Fan(s)	Drain Line	Cond Coil	Evap Coil	Belt Pulley	CTRL	
Climate Master#B1	NS019GSZGLBMCSA	92M010225	1st floor	72F	7.6	3.9A	NA	NA	NA	NA	NA	NA	57.8F	78.6F	1.2	.8A	NA	NA	OK	OK	OK	OK	OK	OK	
Climate Master#B2	HS006GSZGRBMCSA	92M011271	1st floor	NA	2.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	.34	NA	NA	NA	NA	NA	NA	NA	NA	NA	
HP B-2 has been removed																									
Climate Master#B3	HS030GSZGLBMCSA	92M010515	1st floor		10.2	9.8A	NA	NA	NA	NA	NA	NA	81.5F	59.7F	1.6	2.9A	NA	NA	NA	NA	OK	OK	OK	NA	OK
Climate Master#1-1	HS015GSZGLBMCSA	92M010027	1st floor	71F		NA	NA	NA	NA	NA	NA	NA	73.7F	60.4F		.8A	NA	NA	OK	OK	OK	OK	OK	OK	
Climate Master#1-2	GCH018BC30CLBS	F15225170	1st floor	71F	8.6	4.2A	NA	NA	NA	NA	NA	NA	74.6A	59.3F	1	.7A	NA	NA	OK	OK	OK	OK	OK	OK	
Climate Master#1-3	HS009GSZGRBMCSA	92M011308	1st floor	72F	3.5	2.9A	NA	NA	NA	NA	NA	NA	76.3F	58.4F	.8	.6A	NA	NA	OK	OK	OK	OK	OK	OK	
Climate Master#1-4	TCH018AGC30CRSS	N13949914	1st floor	72F	7.2	4.9A	NA	NA	NA	NA	NA	NA	77.4F	58.6F	1	.8A	NA	NA	OK	OK	OK	OK	OK	OK	
Climate Master#1-5	GRH009AGD30CRSS	F10257584	1st floor	72F	3.9	2.9A	NA	NA	NA	NA	NA	NA	76.4F	60.5F	.8	.6A	NA	NA	NA	NA	OK	OK	OK	NA	OK
Climate Master#1-6	HS019GSZGLBMCSA	92M010226	1st floor	72F	7.6	5.7A	NA	NA	NA	NA	NA	NA	78.6F	60.5F	1.2	.8A	NA	NA	NA	NA	OK	OK	OK	OK	OK
Climate Master#1-7	HS019GSZGRBMCSA	92M010229	1st floor	72F	7.6	5.0A	NA	NA	NA	NA	NA	NA	77.9F	59.5F	1.2	.9A	NA	NA	NA	NA	OK	OK	OK	NA	OK
Climate Master#1-8	HS009GSZGLBMCSA	92M011304	1st floor	72F	7.6	3.7A	NA	NA	NA	NA	NA	NA	75.4F	59.6F	1.2	.7A	NA	NA	OK	OK	OK	OK	OK	OK	OK
Climate Master#1-9	HS009GSZGLBMCSA	92M011305	1st floor	72F	3.5	2.6A	NA	NA	NA	NA	NA	NA	79.3F	58.6F	.8	.6A	NA	NA	NA	NA	OK	OK	OK	OK	OK
Climate Master#1-10	HS012GSZGRBMCSA	92M011348	1st floor	72F	4.6	3.5A	NA	NA	NA	NA	NA	NA	76.4F	57.4F	.8	.7A	NA	NA	NA	NA	OK	OK	OK	NA	OK
Climate Master#1-11	GCH009BGC300RBS	G13261433	1st floor	72F	3.9	3.8A	NA	NA	NA	NA	NA	NA	75.3F	58.2F	.8	.7A	NA	NA	NA	NA	OK	OK	OK	OK	OK
Climate Master#1-12	HS019GSZGRBMCSA	92M010227	1st floor		7.6	5.3A	NA	NA	NA	NA	NA	NA	83.5F	62.5F	1.2	.8A	NA	NA	NA	NA	OK	OK	OK	OK	OK
Climate Master#2-1	GCH030BGD30CLBS	F10257530	2nd floor	72F	11.2	10.4A	NA	NA	NA	NA	NA	NA	84.5F	63.5F	3	2.5A	NA	NA	NA	NA	OK	OK	OK	NA	OK
Climate Master#2-3	GCH024BGC30CLSS	F13291960	2nd floor	72F	9.8	8.2A	NA	NA	NA	NA	NA	NA	73.7F	56.9F	1.5	1.2A	NA	NA	NA	NA	OK	OK	OK	NA	OK

EQUIPMENT				Compressor										Temperatures				Evap Fan				Cond	Evap	Belt	CTRL
Make	Model	Serial	Location	Temp (1)	Rated (1)	Draw (1)	Rated (2)	Draw (2)	Rated (3)	Draw (3)	Rated (4)	Draw (4)	Liquid Suction	Rated (S)	Draw (R)	Rated (R)	Draw (R)	Cond Fan(s)	Drain Line	Cond Coil	Evap Coil	Belt Pulley	CTRL		
Climate Master#2-4	HS072HSZGLSMCSA	92M011272	2nd floor	72 F	10.6	6.9A	10.6A	6.3A	NA	NA	NA	NA	74.2F	61.4D	5.7	3.7A	NA	NA	OK	OK	NA	OK	OK		
Belt size BX-49 qty 1																									
Climate Master#2-5	GSH070AHC30CLSS	K13277055	2nd floor	71	17.3	7.5A	10.4A	6.9A	NA	NA	NA	NA	79.2F	58.1F	4.9	3.2A	NA	NA	OK	OK	OK	OK	OK		
Climate Master#2-6	TCH018AGC30CRSS	N12629484	2nd floor	72F	7.2	4.4A	NA	NA	NA	NA	NA	NA	75.9F	57.9F	1	.8A	NA	NA	OK	NA	NA	NA	OK		
Climate Master#2-7	HS009GSZGLBMSA	92M01306	2nd floor	72F	3.5	2.7A	NA	NA	NA	NA	NA	NA	79.4F	60.7F	.8	.6A	NA	NA	OK	OK	OK	NA	OK		
Climate Master#2-8	HS012GSZGLBMSA	92M011346	2nd floor	72 F	4.6	3.9A	NA	NA	NA	NA	NA	NA	73.9F	58.5F	.8	.6A	NA	NA	OK	OK	OK	NA	OK		
Climate Master#2-9	HS006GSZGLBMSA	92M011270	2nd floor	72F	2.8	2.1A	NA	NA	NA	NA	NA	NA	77.6F	58.4F	.34	.4A	NA	NA	OK	OK	OK	NA	OK		
Climate Master#2-10	HS015GSZGLSMCSA	92M010020	2nd floor	71F	5.5	3.2A	NA	NA	NA	NA	NA	NA	78.6F	62.5F	.8	.7A	NA	NA	OK	OK	OK	NA	OK		
Climate Master#2-11	GCH018BGD30CRSS	F11267960	2nd floor	71F	8.6	3.9A	NA	NA	NA	NA	NA	NA	76.8F	58.8F	1	.7A	NA	NA	OK	OK	OK	NA	OK		
Climate Master#2-12	TCH012AGC30CLSS	N12731230	2nd floor	71F	5.1	3.9A	NA	NA	NA	NA	NA	NA	72.7F	59.6F	.8	.5A	NA	NA	OK	OK	OK	NA	OK		
Carrier	48HJE00756225	3005G510		70F	20.5	16.9A	NA	NA	NA	NA	NA	NA	84.1F	60.3F	5.8	3.8A	NA	NA	Broken	OK	OK	OK	OK		
Enviro master	SICA400D02	108D856716		72	8	19.2A	29.5A	18.5A	NA	NA	NA	NA	83.4F	61.5F		6.4A	NA	NA	OK	OK	OK	OK	OK		
Trane#2	YSC092A3RLA2WG1A0A1B1A6A7C	809102343L		71	14.7, 10.3	10.6A	undefined	8.1A	NA	NA	NA	NA	72.5F	49.6F	9.4	8.6A	NA	NA	OK	OK	OK	OK	OK		
Trane#3	YSC120A3RLA35G1A0A1B1A6A7D	809102243L		71F	18.6, 14.7	12.2A	undefined	10.5A	NA	NA	NA	NA	82.5F	58.9F	13.4	8.2 A	NA	NA	OK	OK	OK	OK	OK		
Trane#1	2YCC3024A1040AA	8101XW79H		72F	9	NA	NA	NA	NA	NA	NA	NA			1.3		NA	NA	OK	OK	OK	DD	OK		
Carrier condenser	38YCA060330	Black Smith 2594E27607		67F	30.8 A	19.4 A	NA	NA	NA	NA	NA	NA	81.5F	64.5F		3.5A	NA	NA	OK	OK	OK	OK	OK		
Carrier ahu	FB4ANIB070000ACAA	2394A06204		67F		19.4	NA	NA	NA	NA	NA	NA	81.5F	64.5F	5.4	3.5A	NA	NA	OK	OK	OK	DD	OK		
York condenser	EIRA018S06D	EEHM599582		70F	9	4.5A	NA	NA	NA	NA	NA	NA	78.8F	61.5F		3.2A	NA	NA	OK	OK	OK	OK	OK		
York ahu	G(t)FD024H17A	(s)JEHS660001		70F		4.5A	NA	NA	NA	NA	NA	NA	78.8F	61.5F	1.4	3.2A	NA	NA	OK	OK	OK	OK	OK		
Brush	M115	V55		70 F		NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA		
Evapco tower	ATN33A	4102682		NA		NA	NA	NA	NA	NA	NA	NA	NA	NA		NA	NA	NA	NA	NA	NA	NA	NA		
Evapco tower removed																									
Well-Mclain	ULTC230	550201156	basement	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
Boiler removed from basement																									
EMI condenser	S1CA4000D02	NA	Roof district court house	71F	8.8A	6.7A	NA	NA	NA	NA	NA	NA	73.4F	51.6F	NA	NA	NA	NA	OK	OK	OK	NA	OK		
Greenheck	DG-118-1130-DB	05F20171	Roof	71F	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	21.5A	16.8A	NA	NA	NA	NA	NA	NA	OK		
EMI indoor unit	NA	NA	District court data room	71F	8.8A	6.7A	NA	NA	NA	NA	NA	NA	73.4F	51.6F	1.2A	.9A	NA	NA	OK	OK	OK	NA	OK		

Notes:

Materials Used:

Recommendations:  
 \*\*QUOTE TO FOLLOW\*\* Carrier split AC unit for black smith shop  
 low on refrigerant liquid line flair on valve service valve had oil on it  
 and also picking up leak with electronic leak detector . Leaking flair on  
 liquid line valve at condensing unit will need to be repaired and unit

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further leak and charged. 12lbs R-22. 1 qty recovery tank 1 qty recovery  
1 qty evacuation 8hrs NTE labor District court Building equipment  
garage Solaronic model ST-150-4/5/6/7N serial ST-07-9372 gas infra-  
red heater in township garage not operational do to defective 115V gas  
valve (7A5A7J517) phone # 800-223-5335 1 qty gas valve 8hrs NTE  
labor municipal building garage Re-Berber-Ray model DTHS40-75N-2  
serial 3040592258900003 gas infrared heater has defective burner air  
switch NO part #TP61B 4hrs labor NTE Municipal building garage RE-  
Berber-Ray model DTHS40-75N-2 serial 3040592258900002 gas  
infrared heater has defective burner air switch NO PART#TP6B 4hrs  
labor NTE

Customer Signature:

Rick