KEAN

ADDENDUM NO. 1

HVAC Preventative Maintenance Services

Bid No. K24-8-26-2

KEAN UNIVERSITY
1000 MORRIS AVENUE
UNION, NEW JERSEY 07083

DATE OF ADDENDUM: October 21, 2024

The attention of all Bidders is called to the following Addendum from Kean University (the "University"). This Addendum forms part of the Request for Proposal ("RFP") and modifies the original RFP specifications and documents dated September 30, 2024.

This Addendum is hereby included in and made a part of the Contract Documents, whether or not attached thereto. All requirements of the original RFP shall remain in force and effect, except as amended by this Addendum.

The purpose of this Addendum is to:

(i) modify the bid opening date;
(ii) amend portions of the RFP dated September 30, 2024;
(iii) clarify issues raised in questions submitted by Bidders, as set forth below;
(iv) amend Attachment A to the RFP, the Fee Proposal Form (see Amended Fee Proposal Form at Attachment 1);
(v) amend Attachment C to the RFP, the Building HVAC Systems Inventory (see Amended Building HVAC Systems Inventory at Attachment 2).

Except as amended herein, the original RFP instructions and specifications shall remain in full force and effect.

I. BID OPENING DATE:

The bid opening date for Bid No. K24-8-26-2 has been modified and will be on November 7, 2024 at 2:00 p.m. via telephone and virtual conference.

II. AMENDMENTS TO RFP:

The words in blue, bolded font in this section are new additions to the RFP document.

1. Section 2.3 of the RFP is hereby revised as follows:

   2.3 Submission of Proposal:

   In order to be considered for award your proposal must be submitted via email to hvacbid@kean.edu as an attachment in PDF format and must be received by University Procurement and Business Services by the required time. This RFP submission is due by 2:00 p.m. on November ~~6~~ **7**, 2024.

   Proposals will be publicly opened via telephone and virtual conference. Any person(s) wishing to participate in the public bid opening process may do so by using the following link to join virtually or dial-in information on the date and time specified above:

   LINK: https://kean-edu.zoom.us/j/99360797366

   DIAL-IN: (US) +1 646 931 3860

   MEETING ID: 993 6079 7366

2. Section 7.2.2 of the RFP is hereby revised as follows:

   7.2.2 General:

   The specifications defined here should be used as a guide for HVAC Preventative Maintenance Services at Kean University. The specification specifically covers preventative maintenance ~~repairs~~ to all air conditioning systems on ~~the~~ Kean University's Main campus in Union, NJ, Liberty Hall Campus in Union, NJ, East Campus in Hillside, NJ. A list of the University's current HVAC System Inventory is attached hereto as Attachment C.

   The services rendered shall consist of furnishing all labor, supervision, tools, equipment, materials, supplies, lifts, ladders, rigging/riggers, and incidentals required for the complete and satisfactory performance of HVAC Preventative Maintenance Services, including inspections,

adjustments, tests, for all equipment under the contract. The A/C services provided by the Vendor under the contract shall be considered HVAC preventative maintenance to include scheduled preventative maintenance (see Section 7.8 Execution of Work below and all repairs required to maintain all A/C equipment in safe and satisfactory operating condition. All work shall be performed according to the highest standards in the industry and to the complete satisfaction of the University. All costs and expenses associated with the contract shall be included in the Fee Proposal Form (see Attachment A). The following repairs are excluded from this HVAC preventative maintenance service contract and shall be performed by the Vendor as "out of scope repair services":

a. Repairs needed due to acts of God.

b. Repairs needed due to vandalism.

If preventative maintenance as set forth in section 7.8 is not completed for all equipment set forth in the Building HVAC Systems Inventory, Vendor is responsible for all equipment replacement costs, labor, and material.

Vendor must also provide emergency all-inclusive HVAC solutions within 24 hours of request from the University (installed and running). Vendor shall be responsible to provide (all inclusive) all equipment, rigging, labor, wiring, piping, setup/breakdown, delivery, freight, installation and fees (excluding fuel) in order to set up and run said equipment per pricing in Attachment A, "Fee Proposal". Vendor must receive authorization in writing from the Vice President or Senior Vice President of Campus Planning, or Senior Leader in the absence of either, prior to installation.

3. Section 7.7.4a of the RFP is hereby revised as follows:

a. Contract Requirements: The Vendor shall provide all labor, parts, system components and materials required by the Vendor during the performance of the contract, including preventative maintenance services if specified. All costs associated with the ~~full scope of services~~ **execution of work** specified in the contract, including Vendor provided materials, parts, system components and labor shall be included in the Vendor's lump sum prices, in Attachment A.

4. Section 7.7.4b of the RFP is hereby revised as follows:

b. Out of Scope Repair Services: The Vendor shall provide all equipment and materials required by the Vendor during the performance of "out of scope repair services" described herein, unless otherwise directed by the University. All costs associated with these

materials shall be based on ~~a discount of~~ the published list price, which shall become part of the term of the contract. Two (2) copies of the published price list(s) shall be submitted by the Vendor within five (5) days of contract award. All price list(s) shall be valid for the full term of the contract.

5. Section 7.8.3.7 is hereby revised as follows:

7.8.3.7 Repair Services Response Time: The Vendor shall have the capability to provide repair services to the University on a twenty-four hour basis, 365 days per year. The Vendor shall provide a ~~repair crew~~ **qualified technician** to the University within one (1) hour of notification by the University. The Vendor shall be able to provide ~~sufficient~~ **qualified** personnel and stock parts in sufficient quantities to respond to multiple repair service calls at the same time. Continued failure on the part of the Vendor in providing repair services requested by the University may be considered default. Unless otherwise warranted by extraordinary circumstances, the Vendor shall satisfactorily accomplish repairs ~~in~~ **on** the same day of the call for service.

III. QUESTIONS AND ANSWERS:

Question 1. a. On Attachment A, Paragraph A, page 66 of your Bid No. K24-8-26-2, there are boxes to insert pricing for each of the called out 5 Groupings and a total line, as well as a first, second, and third year extensions. These Groupings cover the listed "within scope" equipment on pages 72 and 73.
b. On Page 74 thru page 79 there is another grouping of "within scope" covered items; variable frequency drives (VFDs).

- There is no clear place to enter the bid price for these items.
  - One option would be to add them to their appropriate Groups 1 thru 5.
  - However, this listing (pgs. 74 thru 79) of VFDs includes units that are installed in buildings other than those called out in Groups 1 thru 5. This will leave many VFDs, intended to be covered, with no place to enter those service prices.
- Please provide direction as to how the prices for these units (VFDs) should be entered

A. Please see the amended Fee Proposal Form.

Question 2. On Attachment A, Paragraph B, page 67 of your Bid No. K24-8-26-2, there are boxes to insert pricing for "Out of Scope" hourly rates.

a. We will have hourly rates for ourselves and two additional trade partners who will participate at some level with service delivery

and emergency / repair services. These trade partners have their own hourly rates, which do not match ours, or even each other's.

b. We are suggesting that the boxes representing "Personne Classifications" (a and b) be tripled to accommodate pricing for varying companies who will be participating under our proposal. Please provide direction.

A. Please provide hourly service rates for all personnel listed in Section B of the Fee Proposal Form. All hourly service rates must be provided upfront.

Question 3. a. On Attachment A, Paragraph, page 67 of your Bid No. K24-8-26-2, "Material Discounts" you ask for pricing as List less a discount. Our vendors, distributors, manufacturers, HVAC supply companies, do not sell their products at list price or list less some value. This is the common practice and has been for some time. They quote us firm cost numbers that we would carry into our estimate, following some level of mark up.

b. We are suggesting that instead of "list less" pricing that you accept "cost plus" some level of mark up pricing, as this best represents what is readily available in the field.

A. Please see amended section 7.7.4b and the amended Fee Proposal Form.

Question 4. While under this contract, should any equipment fail (chillers, VRF's, etc.), would the total replacement cost be on the contractor, or is it permissible to give a quote for replacement and bill accordingly?

A. Please see amended section 7.2.2.

Question 5. One hour emergency response time states crew. Is having one technician onsite within that one-hour timeframe sufficient for that?

A. Vendor must supply a minimum of one qualified technician.

Question 6. The attached is a listing of VFDs currently being maintained under our current agreements, that are not listed on the new list of to be covered VFDs, Page 74 to page 79, of your RFP Bid No. K24-8-26-2. Should these be included? If so, how should that be documented?

A. Please see the amended Building HVAC Systems Inventory.

Question 7. Please confirm that for all "in scope" listed equipment on pages 72 and 73 of your bid document (referenced above) and the listing of VFDs on pages 74 to 79, that it is the responsibility of the successful bidder to provide all of the services listed below at no additional cost to the University: that all such services should be carried in the proposers bid.

- Preventative maintenance services as defined on pages 27 thru 34

- 24 / 7 emergency response services
- Repair labor and needed parts to return the equipment to maintainable condition
- Should the equipment not be repairable, that the successful bidder will be required to replace the equipment at no additional cost to the University, including equipment, parts, labor and associated task such as crane services and electrical services. This applies to all listed “in scope” equipment.

A. Please see amended sections 7.2.2, 7.7.4a, 7.7.4b, 7.8.3.7 and the amended Building HVAC Systems Inventory.

ATTACHMENT 1 TO ADDENDUM NO. 1, HVAC PREVENTATIVE MAINTENANCE SERVICES, BID NO. K24-8-26-2

Amended Attachment A

Kean University
HVAC Preventative Maintenance Services
Bid No. K24-8-26-2

FEE PROPOSAL FORM

_____
(Company Name)

PRICING SCHEDULE: The Bidder agrees to provide the full scope of work and services described herein for the following rates:

Bidder's Name: _____ Date: _____

Authorized Signature: _____

Print Name: _____

Title: _____

A. HVAC Preventative Maintenance (lump sum for full year including materials): **In addition to the pricing chart below, for each group, bidder must supply a breakdown of labor hours per calendar month that will be used to execute the work. This breakdown will be used to support the work tickets that are sent to record all work outlined above using Schedule D.**

	Original Contract	**First Extension**	**Second Extension**	**Third Extension**
Group #1 Main Campus	$_____	$_____	$_____	$_____
Group #2 Residence Life	$_____	$_____	$_____	$_____
Group #3 Cougar Hall	$_____	$_____	$_____	$_____
Group #4 1085 Morris Ave.	$_____	$_____	$_____	$_____
Group #5 East Campus	$_____	$_____	$_____	$_____
Group #6 VFDs	$_____	$_____	$_____	$_____
Grand Total	**$**_____	**$**_____	**$**_____	**$**_____

B. Out of Scope Repair Service:

1. Personnel Classification:

a. Air Conditioning Technician

	Original Contract	First Extension	Second Extension	Third Extension
Straight Time	$ _____/hr.	$ _____/hr.	$ _____/hr.	$ _____/hr.
Overtime	$ _____/hr.	$ _____/hr.	$ _____/hr.	$ _____/hr.
Holiday	$ _____/hr.	$ _____/hr.	$ _____/hr.	$ _____/hr.

b. Assistant Air Conditioning Technician

	Original Contract	First Extension	Second Extension	Third Extension
Straight Time	$ _____/hr.	$ _____/hr.	$ _____/hr.	$ _____/hr.
Overtime	$ _____/hr.	$ _____/hr.	$ _____/hr.	$ _____/hr.
Holiday	$ _____/hr.	$ _____/hr.	$ _____/hr.	$ _____/hr.

In the event that Kean University requires out of scope repair services the Vendor will submit one (1) copy of published price list(s) for any materials or supplies to be used under this Contract before work begins.

C. Emergency HVAC Solutions

1. Temp Solution to include labor/setup/cables/piping/delivery/freight-ALL INCLUSIVE (fuel not included)

	Original Contract	First Extension	Second Extension	Third Extension
Swamp Cooler 1-5 Ton	$ _____/mo.	$ _____/mo.	$ _____/mo.	$ _____/mo.
Temp Chiller up to 300 ton	$ _____/mo.	$ _____/mo.	$ _____/mo.	$ _____/mo.
Temp Boiler up to 1 mil BTU	$ _____/mo.	$ _____/mo.	$ _____/mo.	$ _____/mo.

D. Breakdown of Labor Hours

	Group #1 Main Campus	Group #2 Residence Life	Group #3 Cougar Hall	Group #4 1085 Morris Ave.	Group #5 East Campus	Group #6 VFDs	Total
January							
February							
March							
April							
May							
June							
July							
August							
September							
October							
November							
December							

Price Extension

Will you extend contract prices to other State Colleges and Universities?

☐ **YES** ☐ **NO**

Kean University is a member of the New Jersey Higher Education Purchasing Association (NJHEPA), whose members include the 4-year Public Colleges and Universities, as well as private institutions. The private Universities include Princeton University, Seton Hall University, Rider University, and Monmouth University.

Will you extend pricing to members of NJHEPA?

☐ **YES** ☐ **NO**

The Vendor agrees that this proposal shall be good and may not be withdrawn for a period of sixty (60) calendar days after the scheduled closing time for proposals. Upon receipt of written notice of the acceptance of the proposal, Vendor will execute the formal contract within ten (10) business days and deliver insurance certificates as per contract terms and conditions.

Pursuant to P.L. 2017, c. 95, please indicate whether the Vendor identifies as any of the following as defined in N.J.S.A. 52:32-19:

☐ **Minority-Owned Business** ☐ **Women-Owned Business** ☐ **Small Business** ☐ **Not Applicable**

By signing and submitting this Fee Proposal Form, Vendor certifies and confirms that:

1. Vendor has read, understands, and agrees to all terms, conditions, and specifications set forth in Bid No. K24-8-26-2, including all terms and conditions for doing business with the State of New Jersey;
2. Vendor's failure to meet any terms and conditions of the proposal documents shall constitute a breach and may result in suspension or debarment from further State bidding;
3. A defaulting Vendor may also be liable, at the option of Kean, for the difference between the contract price and the price bid by an alternate vendor of the goods or services in addition to other remedies available; and
4. By signing and submitting this Fee Proposal Form, Vendor consents to receipt of any and all documents related to this proposal solicitation and the resulting contract by electronic medium or facsimile.

Respectfully submitted, (Seal required if Proposal is by corporation)

_____
(Name of Company)

_____
(Print Name & Title)

_____
(Authorized Signature)

_____
(Address)

_____
(City, State, Zip)

Telephone Number: _____ Email Address: _____

Date: _____

Note: This Fee Proposal Form must be signed. Not signing this proposal form will be grounds to disqualify.

****END OF FEE PROPOSAL FORM****

ATTACHMENT 2 TO ADDENDUM NO. 1, HVAC PREVENTATIVE MAINTENANCE SERVICES, BID NO. K24-8-26-2

Amended Attachment C

Kean University
HVAC Preventative Maintenance Services
Bid No. K24-8-26-2

BUILDING HVAC SYSTEMS INVENTORY

Main Campus

Building	Location	RES or Campus	Manufacturer	Description	Model # Serial#	Notes
Administration	Mechanical	Campus	Carrier®	Absorption Refrigeration Chiller	Model # 16JB014STM Serial #10020	
CAS	Mechanical	Campus	Carrier®	Centrifugal Chiller 1	Model # 02XRV334CDS64, Serial # 68494	
CAS	Mechanical	Campus	Carrier®	Centrifugal Chiller 2	Model # 02XRV334CDS64, Serial # 68495	
D'Angola Gym	Roof	Campus	Tecochill® Chiller	Gas-fired Chillers	Model # CH-65ACP, Serial # 10128	
D'Angola Gym	Roof	Campus	Tecochill® Chiller	Gas-fired Chillers	Model # CH-65ACP, Serial # 10128	
D'Angola Gym	Roof	Campus	Tecochill® Chiller	Gas-fired Chillers	Model # CH-65ACP, Serial # 10130	
Downs	Mechanical	Campus	York®	Absorption Chiller	Model # YIA ST-2A4-17-B-S, Serial # UALM003520	
Hennings Hall:	Roof	Campus	Tecogen®	Chiller	Model # CH-200X, Serial # 385	
Hutchinson Hall	Mechanical	Campus	Carrier®	Absorption Chiller	Model # 16JB057, Serial #20004	
Nancy Thompson Library	Mechanical	Campus	Carrier®	Absorption Chiller	Model # 16JB028, Serial # 20001	
Science Building	Mechanical	Campus	Carrier®	Absorption Chiller	Model # 16JB032, Serial # 20002	
Technology Building	Roof	Campus	Liebert®	Split System #9	Model # DCDF415-Y, Serial # 0838C15463	
Technology Building	Roof	Campus	Liebert®	Split System #10	Model # DCDF415-Y, Serial # 0904C18736	
Technology Building	Roof	Campus	Liebert®	Split System #11	Model # DCDF415-Y, Serial # 0904C18823	
Technology Building	Roof	Campus	Liebert®	Split System #12	Model # DCDF415-Y, Serial # 0904c18737	
Townsend Hall	Roof	Campus	Carrier®	Chiller	Model # 30HXC086RZ-540KA, Serial # 1801Q00369	
Vaughn-Eames	Mechanical	Campus	Carrier®	Absorption Chiller	Model # 16JB036, Serial # 20003	
Wilkins Theater	Mechanical	Campus	Trane	Chiller 1	M#CGAM100A2R02AXB2A1A1A1AXB2A1A1AXXA101A4B3X1D1XXLXX S#U19D74026	
Wilkins Theater	Mechanical	Campus	Trane	Chiller 2	M#CGAM100A2R02AXB2A1A1A1AXB2A1A1AXXA101A4B3X1D1XXLXX S#U19D7402S	

Residence Life

Building	Location	RES or Campus	Manufactur	Description	Model # Serial#	Notes
Bartlett Hall	Penthouse	RES	Trane®	Rotary Liquid Chiller	RTUA125AYE01X3D1VFH; Serial # U02G05732	
Burch Hall	Penthouse	RES	Trane®	Rotary Liquid Chiller	RTUA125AYE01X3D1VFH; Serial # U02G05731	
Rogers Hall	Penthouse	RES	Trane®	Rotary Liquid Chiller	RTUA125AYE01X3D1VFH; Serial # U02G05730	
Sozio Hall	Penthouse	RES	Trane®	Rotary Liquid Chiller	RTUA125AYE01X3D1VFH; Serial # U02G05733	
New Upper	MER 2	RES	Carrier®	Centrifugal Chiller	Model# 19XRV6767437LCH64 Serial # 18632	
New Upper	MER 2	RES	Carrier®	Absorbtion Chiller	Model # 16JB061 Serial # JBJ1006	

Cougar Hall

Building	Location	RES or Campus	Manufacturer	Description	Model # Serial#	Notes
Cougar hall	Common areas	RES	Climatemaster®	Heat pump (Common areas)	C3E0NAA00DFB0C	8 units first floor

1085 Morris Ave.

Building	Location	RES or Campus	Manufacturer	Description	Model # Serial#	Notes
1085 Morris Ave	Mechanical	Campus	Tecochill	Chiller #1	M# CH-350% Ser# 20173	
1085 Morris Ave	Mechanical	Campus	Tecochill	Chiller #2	M# CH-350% Ser# 20172	

East Campus

Building	Location	RES or Campus	Manufacturer	Description	Model # Serial#	Notes
Main Building	Mechanical	Campus	Carrier®	Centrifugal Chiller	Model # 19XRV3232257BFS64; Serial # 74059	
Main Building	Mechanical	Campus	Carrier®	Centrifugal Chiller	Model # 19XRV3232257BFS64; Serial #74060	
Main Building	Mechanical	Campus	Carrier®	Centrifugal Chiller	Model # 19XRV3232257BFS64; Serial # 74061	
STEM Building	Mechanical	Campus	Water Furnace Envision®	Heat Pump #1	Model # NXW5-40R4PE3NNSSA Serial # 090200369	Job # 028354
STEM Building	Mechanical	Campus	Water Furnace Envision®	Heat Pump #2	Model # NXW5-40R4PE3NNSSA Serial # 090200365	Job # 028352
STEM Building	Mechanical	Campus	Water Furnace Envision®	Heat Pump #3	Model # NXW5-40R4PE3NNSSA Serial # 090200363	Job # 028352
STEM Building	Mechanical	Campus	Water Furnace Envision®	Heat Pump #4	Model # NXW5-40R4PE3NNSSA Serial # 090200366	Job # 028353
STEM Building	Mechanical	Campus	Water Furnace Envision®	Heat Pump #5	Model # NXW5-40R4PE3NNSSA Serial # 090200364	Job # 028352
STEM Building	Mechanical	Campus	Water Furnace Envision®	Heat Pump #6	Model # NXW5-40R4PE3NNSSA Serial # 090200370	Job # 028354
STEM Building	Mechanical	Campus	Water Furnace Envision®	Heat Pump #7	Model # NXW5-40R4PE3NNSSA Serial # 090200371	Job # 028354
STEM Building	Mechanical	Campus	Water Furnace Envision®	Heat Pump #8	Model # NXW5-40R4PE3NNSSA Serial # 090200361	Job # 028341
STEM Building	Mechanical	Campus	Water Furnace Envision®	Heat Pump #9	Model # NXW5-40R4PE3NNSSA Serial # 090200360	Job # 028341
STEM Building	Mechanical	Campus	Water Furnace Envision®	Heat Pump #10	Model # NXW5-40R4PE3NNSSA Serial # 090200368	Job # 028353
STEM Building	Mechanical	Campus	Water Furnace Envision®	Heat Pump #11	Model # NXW5-40R4PE3NNSSA Serial # 090200362	Job # 028341
STEM Building	Mechanical	Campus	Water Furnace Envision®	Heat Pump #12	Model # NXW5-40R4PE3NNSSA Serial # 090200367	Job # 028353
Presidents House	Roof	Campus	Mitsubishi®	Split System	MODEL MUZ-A12NA S/N 7001272T	
Presidents House	Roof	Campus	Mitsubishi®	Split System	MODEL MUZ-A12NA S/N 7000771T	
Presidents House	Roof	Campus	Mitsubishi®	Split System	MODEL MUZ-GL18NA S/N 9008766T	
Presidents House	Side of House	Campus	Mitsubishi®	Split System	MODEL MUZ-GL18NA	
Presidents House	Side of House	Campus	Lennox®	Split System	MODEL HS26-018-5P S/N 5805C15294	
Presidents House	Side of House	Campus	Lennox®	Split System	MODEL HS26-024-5P S/N 5805C07669	
Presidents House	Side of House	Campus	Mitsubishi®	Split System	MODEL MUZ-GL09NA	
Presidents House	Side of House	Campus	Daikin®	Split System	MODEL RXS18LVJU S/N E027655	
Presidents House	Side of House	Campus	York®	Split System	MODEL HABA-F042SD S/N WFJM028013	
Presidents House	Side of House	Campus	Coleman®	Split System	MODEL TF4B1821SA S/N W2C0634036	
Presidents House	Basement	Campus	Lennox®	Split System	MODEL C33-24B-2F S/N 6005B57805	
Presidents House	Basement	Campus	Lennox®	Split System	MODEL C33-24B-2F S/N 6005B57808	
Presidents House	Basement	Campus	Gama	Split System	MODEL NTC6150KJA1 S/N L974615034	

VFDs

Building	Location	RES or Campus	Manufacturer	Description	Model # Serial#	Notes
Upper Class Dorm	MER-2	RES		CHWP-3	Schneider Electric - ATV212	
Upper Class Dorm	MER-2	RES		CHWP-4	Schneider Electric - ATV212	
Upper Class Dorm	MER-2	RES		CHWP-5	Schneider Electric - ATV212	
Upper Class Dorm	MER-2	RES		AHU-1-SF	Schneider Electric - ATV212	
Upper Class Dorm	MER-2	RES		CWP-3	Schneider Electric - ATV212	
Upper Class Dorm	MER-1	RES		AHU-2-SF	Schneider Electric - ATV212	
Upper Class Dorm	MER-1	RES		AHU-3-SF	Schneider Electric - ATV212	
Upper Class Dorm	MER-1	RES		AHU-4-SF	Schneider Electric - ATV212	
Upper Class Dorm	MER-1	RES		AHU-3-Purge Fan	Schneider Electric - ATV212	
Upper Class Dorm	MER-1	RES		EF-K-3	Schneider Electric - ATV212	
Upper Class Dorm	Roof	RES		CT-1	Schneider Electric - ATV212	
Upper Class Dorm	Roof	RES		CT-2	Schneider Electric - ATV212	
Freshman Dorm	MER-3	RES		PCR-F-3	Schneider Electric - ATV212	
Freshman Dorm	MER-3	RES		AHU-F-1-SF	Schneider Electric - ATV212	
Freshman Dorm	MER-3	RES		AHU-F-2-SF	Schneider Electric - ATV212	
Freshman Dorm	MER-3	RES		AHU-F-2-RF	Schneider Electric - ATV212	
Freshman Dorm	MER-3	RES		HWP-1	Schneider Electric - ATV212	
Freshman Dorm	MER-3	RES		HWP-2	Schneider Electric - ATV212	
Cougar Hall	Roof MER	RES		P-1	Emerson-H300	
Cougar Hall	Roof MER	RES		P-2	Emerson-H301	
Cougar Hall	Roof MER	RES		CT-1	Emerson-H302	
Administration	MER-3	CAMPUS		AHU-2	Saftronics - FP5	
Administration	MER-3	CAMPUS		RF-2	Saftronics - FP5	
Administration	MER-3	CAMPUS		P-4	Saftronics - FP5	
Administration	MER-3	CAMPUS		P-5	Saftronics - FP5	
Administration	MER-3	CAMPUS		CT	Johnson Controls (Eaton-HMX)	
Administration	MER-3	CAMPUS		AHU-1-SF	Saftronics - FP5	
Administration	MER-3	CAMPUS		RF-1	Saftronics - FP5	
Townsend	BASEMENT	CAMPUS		AHU-1	Saftronics - FP5	
Townsend	BASEMENT	CAMPUS		AU-2	Saftronics - FP5	
Townsend	BASEMENT	CAMPUS		CT	Toshiba - Q9 Plus	
Townsend	BASEMENT	CAMPUS		HWP-1	Danfoss - VLT 6000	
Townsend	BASEMENT	CAMPUS		HWP-2	Danfoss - VLT 6000	
Science	PENTHOUSE	CAMPUS		VFD	Saftronics - FP5	
Hennings	LADDER	CAMPUS		AHU-2	Saftronics - FP5	
Hennings	LADDER	CAMPUS		AHU-3	Saftronics - FP5	
Hennings	LADDER	CAMPUS		AHU-4	Saftronics - FP5	
Hutchinson	MER-1	CAMPUS		AHU-1	Saftronics - GP10	
Hutchinson	MER-1	CAMPUS		RF-1	Saftronics - GP10	
Hutchinson	MER-2	CAMPUS		AHU-2	Saftronics - GP10	
Hutchinson	MER-2	CAMPUS		RF-2	Saftronics - GP10	
Hutchinson	MER-3	CAMPUS		AHU-3	Saftronics - GP10	
Hutchinson	MER-3	CAMPUS		RF-3	Saftronics - GP10	
Hutchinson	PENTHOUSE	CAMPUS		P-3	Saftronics - GP10	
Hutchinson	PENTHOUSE	CAMPUS		P-4	Saftronics - GP10	
Hutchinson	PENTHOUSE	CAMPUS		P-5	Saftronics - GP10	
Hutchinson	PENTHOUSE	CAMPUS		P-6	Saftronics - GP10	
Hutchinson	PENTHOUSE(ELECTRICAL ROOM)	CAMPUS		CT	Saftronics - GP10	
TPA (Wilkins)	144 STORAGE	CAMPUS		AHU-4	AC-TECH	
Vaughn-Eames	VE-116/PENTHOUSE	CAMPUS		P-5A	Saftronics - GP10	
Vaughn-Eames	VE-116/PENTHOUSE	CAMPUS		P-5	Saftronics - GP10	
Vaughn-Eames	VE-116/PENTHOUSE	CAMPUS		AHU-3	Saftronics - GP10	
Vaughn-Eames	VE-116/PENTHOUSE	CAMPUS		R-3	Fuji - Frenic 5000G11	
Vaughn-Eames	BASEMENT	CAMPUS		P-3	Saftronics - GP10	
Vaughn-Eames	BASEMENT	CAMPUS		P-3A	Saftronics - GP10	
Vaughn-Eames	4TH FLOOR	CAMPUS		P-4	Saftronics - GP10	
Vaughn-Eames	4TH FLOOR	CAMPUS		P-4A	Saftronics - GP10	
Vaughn-Eames	4TH FLOOR	CAMPUS		RF-2	Saftronics - GP10	
Vaughn-Eames	4TH FLOOR	CAMPUS		AHU-2	Saftronics - GP10	
Vaughn-Eames	4TH FLOOR	CAMPUS		AHU-1	Saftronics - GP10	

Vaughn-Eames	4TH FLOOR	CAMPUS		CT	Saftronics - GP10	
Vaughn-Eames	4TH FLOOR	CAMPUS		RF-1	Saftronics - GP10	
Library	ROOF (OUTSIDE)	CAMPUS		RTU-1	Trane VFD	
Library	3RD FLOOR PENTHOUSE	CAMPUS		AHU-1	Saftronics - GP10	
Library	3RD FLOOR PENTHOUSE	CAMPUS		RP-4	Saftronics - GP10	
Library	3RD FLOOR PENTHOUSE	CAMPUS		RP-5	Saftronics - GP10	
Library	3RD FLOOR PENTHOUSE	CAMPUS		CT	Saftronics - GP10	
Library	3RD FLOOR PENTHOUSE	CAMPUS		R-1	Saftronics - GP10	
Library	3RD FLOOR PENTHOUSE	CAMPUS		AHU-2	Saftronics - GP10	
Library	3RD FLOOR PENTHOUSE	CAMPUS		R-2	Saftronics - GP10	
CAS	4TH FLOOR PENTHOUSE	CAMPUS		AHU-3	Toshiba - E3	
CAS	4TH FLOOR PENTHOUSE	CAMPUS		CHWP-1	Unico - 1105	
CAS	4TH FLOOR PENTHOUSE	CAMPUS		CHWP-2	Unico - 1105	
CAS	4TH FLOOR PENTHOUSE	CAMPUS		CHWP-3	Unico - 1105	
CAS	4TH FLOOR PENTHOUSE	CAMPUS		RF-3A	Unico - 1105	
CAS	4TH FLOOR PENTHOUSE	CAMPUS		RF-3B	Unico - 1105	
CAS	4TH FLOOR PENTHOUSE	CAMPUS		CWP-1	Unico - 1105	
CAS	4TH FLOOR PENTHOUSE	CAMPUS		CWP-2	Unico - 1105	
CAS	4TH FLOOR PENTHOUSE	CAMPUS		CWP-3	Unico - 1105	
CAS	4TH FLOOR PENTHOUSE	CAMPUS		BH-1	Unico - 1105	
CAS	4TH FLOOR PENTHOUSE	CAMPUS		BH-2	Unico - 1105	
CAS	4TH FLOOR PENTHOUSE	CAMPUS		HWP-1	Unico - 1105	
CAS	4TH FLOOR PENTHOUSE	CAMPUS		HWP-2	Unico - 1105	
CAS	4TH FLOOR PENTHOUSE	CAMPUS		RHWP-3	Unico - 1105	
CAS	4TH FLOOR PENTHOUSE	CAMPUS		RHWP-4	Unico - 1105	
CAS	4TH FLOOR PENTHOUSE	CAMPUS		VFD	Unico - 1105	
CAS	ROOF	CAMPUS		VFD	ABB-ACH -580	
CAS	ROOF	CAMPUS		VFD	ABB-ACH -580	
CAS	ROOF	CAMPUS		VFD	ABB-ACH -580	
Miron Student Center	OUTSIDE ON COOLING TOWER	CAMPUS		CT	Schneider Electric - ATV212	
Miron Student Center	BASEMENT	CAMPUS		P-1	Bell & Gossett (Danfoss-VLT)	
Miron Student Center	BASEMENT	CAMPUS		P-2	Bell & Gossett (Danfoss-VLT)	
D'Angola	MER-1.5	CAMPUS		AHU-4	Saftronics - GP10	
D'Angola	MER-1.5	CAMPUS		RF-4	Saftronics - GP10	
D'Angola	MER-1.5	CAMPUS		RF-3	Saftronics - GP10	
D'Angola	MER-1.5	CAMPUS		AHU-3	Saftronics - GP10	
D'Angola	MER-ROOF	CAMPUS		P-1	Saftronics - GP10	
D'Angola	MER-ROOF	CAMPUS		P-2	Saftronics - GP10	
D'Angola	MER-ROOF	CAMPUS		AHU-1	Saftronics - GP10	
D'Angola	MER-ROOF	CAMPUS		AHU-2	Saftronics - GP10	
D'Angola	MER-ROOF	CAMPUS		RF-2	Saftronics - GP10	
D'Angola	MER-ROOF	CAMPUS		RF-1	Saftronics - GP10	
GLAB	WATER ROOM	CAMPUS		P-1	ABB-ACH550	
GLAB	WATER ROOM	CAMPUS		P-2	ABB-ACH550	
GLAB	WATER ROOM	CAMPUS		P-3	ABB-ACH550	
GLAB	6TH FLOOR BOILER ROOM	CAMPUS		HWP-1	Danfoss - VLT	

GLAB	6TH FLOOR BOILER ROOM	CAMPUS		HWP-2	Danfoss - VLT	
GLAB	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-5-SF	Danfoss - VLT	
GLAB	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-5-RF	Danfoss - VLT	
GLAB	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-4-SF	Danfoss - VLT	
GLAB	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-4-RF	Danfoss - VLT	
GLAB	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-3-SF	Danfoss - VLT	
GLAB	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-3-RF	Danfoss - VLT	
GLAB	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-2-SF	Danfoss - VLT	
GLAB	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-2-RF	Danfoss - VLT	
GLAB	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-1-SF	Danfoss - VLT	
GLAB	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-1-RF	Danfoss - VLT	
HENNINGS	PH MER	CAMPUS		AHU-2-RF	ABB-ACH-580	
HENNINGS	PH MER	CAMPUS		AHU-3-RF	ABB-ACH-580	
HENNINGS	PH MER	CAMPUS		AHU-4-RF	ABB-ACH-580	
HYNES	BOILER ROOM	CAMPUS		DWP-1	Allen Bradley - Powerflex 523	
HYNES	BOILER ROOM	CAMPUS		DWP-2	Allen Bradley - Powerflex 523	
HYNES	BOILER ROOM	CAMPUS		HWP-1	ABB-ACH550	
HYNES	BOILER ROOM	CAMPUS		HWP-2	ABB-ACH550	
HYNES	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-1-CF-VFD-A	Yaskawa - V1000	
HYNES	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-1-CF-VFD-B	Yaskawa - V1000	
HYNES	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-1-EF-VFD-1	Yaskawa - Z1000	
HYNES	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-1-EF-VFD-2	Yaskawa - Z1000	
HYNES	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-1-SF-VFD-1	Yaskawa - Z1000	
HYNES	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-1-SF-VFD-2	Yaskawa - Z1000	
HYNES	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-1-CF-VFD-A1	Yaskawa - Z1000	
HYNES	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-2-CF-VFD-A	Yaskawa - V1000	
HYNES	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-2-CF-VFD-B	Yaskawa - V1000	
HYNES	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-2-EF-VFD-1	Yaskawa - V1000	
HYNES	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-2-EF-VFD-2	Yaskawa - V1000	
HYNES	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-2-SF-VFD-1	Yaskawa - Z1000	
HYNES	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-2-SF-VFD-2	Yaskawa - Z1000	
HYNES	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-2-CF-VFD-A1	Yaskawa - Z1000	
HYNES	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-3-EF-VFD-1	Yaskawa - J1000	
HYNES	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-3-CF-VFD-A&B	Yaskawa - J1000	
HYNES	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-3-CF-VFD-C&D	Yaskawa - J1000	
HYNES	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-3-SF-VFD-1	Yaskawa - V1000	
HYNES	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-3-SF-VFD02	Yaskawa - V1000	
HYNES	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-4-EF-VFD-1	Yaskawa - J1000	
HYNES	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-4-EF-VFD-2	Yaskawa - J1000	
HYNES	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-4-CF-VFD-A&B	Yaskawa - J1000	
HYNES	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-4-CF-VFD-C&D	Yaskawa - J1000	

HYNES	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-4-SF-VFD-1	Yaskawa - V1000	
HYNES	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-4-SF-VFD-2	Yaskawa - V1000	
LHAC	BOILER ROOM (LADDER)	CAMPUS		HWP-1	Armstrong - IVS Series (Danfoss)	
LHAC	BOILER ROOM (LADDER)	CAMPUS		HWP-2	Armstrong - IVS Series (Danfoss)	
LHAC	ROOF (LADDER)	CAMPUS		RTU-1-EF-VFD-1	Yaskawa - V1000	
LHAC	ROOF (LADDER)	CAMPUS		RTU-1-CF-VFD-A&B	Yaskawa - J1000	
LHAC	ROOF (LADDER)	CAMPUS		RTU-1-CF-VFD-C&D	Yaskawa - J1000	
LHAC	ROOF (LADDER)	CAMPUS		RTU-1-SF-VFD-1	Yaskawa - V1000	
LHAC	ROOF (LADDER)	CAMPUS		RTU-1-SF-VFD-2	Yaskawa - V1000	
LHAC	ROOF (LADDER)	CAMPUS		RTU-2-EF-VFD-1	Yaskawa - V1000	
LHAC	ROOF (LADDER)	CAMPUS		RTU-2-SF-VFD-1	Yaskawa - V1000	
LHAC	ROOF (LADDER)	CAMPUS		RTU-2-CF-VFD-A	Yaskawa - J1000	
LHAC	ROOF (LADDER)	CAMPUS		RTU-2-CF-VFD-B	Yaskawa - J1000	
LHAC	ROOF (LADDER)	CAMPUS		RTU-2-CF-VFD-C	Yaskawa - J1000	
LHAC	ROOF (LADDER)	CAMPUS		RTU-2-CF-VFD-D	Yaskawa - J1000	
LHAC	ROOF (LADDER)	CAMPUS		RTU-4-EF-VFD-1	Yaskawa - V1000	
LHAC	ROOF (LADDER)	CAMPUS		RTU-4-SF-VFD-1	Yaskawa - V1000	
LHAC	ROOF (LADDER)	CAMPUS		RTU-4-SF-VFD-2	Yaskawa - V1000	
LHAC	ROOF (LADDER)	CAMPUS		RTU-4-CF-VFD-A&B	Yaskawa - J1000	
LHAC	ROOF (LADDER)	CAMPUS		RTU-4-CF-VFD-C	Yaskawa - J1000	
LHAC	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-3-EF-VFD-1	Yaskawa - V1000	
LHAC	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-3-CF-VFD-A&B	Yaskawa - J1000	
LHAC	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-30CF-VFD-C&D	Yaskawa - J1000	
LHAC	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-3-SF-VFD-1	Yaskawa - V1000	
LHAC	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-3-SF-VFD-1	Yaskawa - V1000	
LHAC	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-3-SF-VFD-2	Yaskawa - V1000	
STEM	WATER ROOM	CAMPUS		DWP-1	Danfoss - VLT 6000	
STEM	WATER ROOM	CAMPUS		DWP-2	Danfoss - VLT 6000	
STEM	MER-1	CAMPUS		CT-1	Telemecanique - Altivar 21	
STEM	MER-1	CAMPUS		CT-2	Telemecanique - Altivar 21	
STEM	MER-1	CAMPUS		GSWP-1	ABB-ACH550	
STEM	MER-1	CAMPUS		GSWP-2	ABB-ACH550	
STEM	MER-1	CAMPUS		GSWP-3	ABB-ACH550	
STEM	MER-1	CAMPUS		GSWP-4	ABB-ACH550	
STEM	MER-1	CAMPUS		GSWP-5	ABB-ACH550	
STEM	MER-1	CAMPUS		GSWP-6	ABB-ACH550	
STEM	MER-1	CAMPUS		CS-5	ABB-ACH550	
STEM	MER-1	CAMPUS		CS-6	ABB-ACH550	
STEM	MER-1	CAMPUS		CS-7	ABB-ACH550	
STEM	MER-1	CAMPUS		CS-8	ABB-ACH550	
STEM	MER-1	CAMPUS		CH-AC-Unit-1	ABB-ACH550	
STEM	MER-1	CAMPUS		CH-AC-Unit-2	ABB-ACH550	
STEM	MER-1	CAMPUS		HWP-CS-16	ABB-ACH550	
STEM	MER-1	CAMPUS		HWP-CS-17	ABB-ACH550	
STEM	MER-1	CAMPUS		P-CS-18	ABB-ACH550	
STEM	MER-1	CAMPUS		P-CS-19	ABB-ACH550	
STEM	MER-2	CAMPUS		AHU-1-SF	ABB-ACH550	
STEM	MER-2	CAMPUS		AHU-1-RF	ABB-ACH550	
STEM	MER-2	CAMPUS		AHU-2-SF	ABB-ACH550	
STEM	MER-2	CAMPUS		AHU-2-RF	ABB-ACH550	
STEM	MER-3	CAMPUS		AHU-3-SF	ABB-ACH550	
STEM	MER-3	CAMPUS		AHU-3-RF	ABB-ACH550	
STEM	MER-3	CAMPUS		AHU-4-SF	ABB-ACH550	
STEM	MER-3	CAMPUS		AHU-4-RF	ABB-ACH550	
STEM	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-6-SF	Danfoss - VLT 6000	
STEM	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-6-RF	Danfoss - VLT 6000	
STEM	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-4-RF	Yaskawa - Z1000	
STEM	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-4-SF-1	Yaskawa - Z1000	
STEM	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-4-SF-2	Yaskawa - Z1000	

NAAB	WATER ROOM	CAMPUS		DWP-1	Hitachi - WJ200	
NAAB	WATER ROOM	CAMPUS		DWP-2	Hitachi - WJ200	
NAAB	WATER ROOM	CAMPUS		DWP-3	Hitachi - WJ200	
NAAB	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-1-SF	Danfoss - VLT	
NAAB	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-1-RF	Danfoss - VLT	
NAAB	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-2-SF	Danfoss - VLT	
NAAB	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-2-RF	Danfoss - VLT	
NAAB	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-6-SF	Danfoss - VLT	
NAAB	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-6-RF	Danfoss - VLT	
NAAB	6TH FLOOR BOILER ROOM	CAMPUS		HWP-1	Armstrong - IVS Series (Danfoss)	
NAAB	6TH FLOOR BOILER ROOM	CAMPUS		HWP-2	Armstrong - IVS Series (Danfoss)	
NAAB	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-3-SF	Danfoss - VLT	
NAAB	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-3-RF	Danfoss - VLT	
NAAB	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-4-SF	Danfoss - VLT	
NAAB	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-4-RF	Danfoss - VLT	
NAAB	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-5-SF	Danfoss - VLT	
NAAB	ROOF (OUTSIDE)(LADDER)	CAMPUS		RTU-5-RF	Danfoss - VLT	
EAST CAMPUS	MER-BASEMENT	CAMPUS		CHWP-1	Danfoss - VLT	
EAST CAMPUS	MER-BASEMENT	CAMPUS		CHWP-2	Danfoss - VLT	
EAST CAMPUS	MER-BASEMENT	CAMPUS		CHWP-3	Danfoss - VLT	
EAST CAMPUS	MER-BASEMENT	CAMPUS		CHWP-4	Danfoss - VLT	
EAST CAMPUS	PUMP SHED	CAMPUS		CT-1	ABB-ACH550	
EAST CAMPUS	PUMP SHED	CAMPUS		CT-2	ABB-ACH550	
EAST CAMPUS	PUMP SHED	CAMPUS		CT-3	ABB-ACH550	
KEAN HALL	MER-BASEMENT	CAMPUS		P1	ABB-ACH550	
KEAN HALL	MER-BASEMENT	CAMPUS		P1S	ABB-ACH550	