

SUBMIT BID TO:
PROCUREMENT SERVICES
UNIVERSITY OF FLORIDA
971 ELMORE DRIVE
PO Box 115250
GAINESVILLE, FL 32611-5250
Phone: (352) 392-1331 - FAX: (352) 392-8837
Web Address: <https://procurement.ufl.edu/>

UF UNIVERSITY of FLORIDA
INVITATION TO BID
Commodity
Acknowledgment Form

Page 1 of 49 pages		BID WILL BE OPENED: October 5, 2021 at 3:00 PM local time and may not be withdrawn within 90 days after such date and time. Questions are due September 22, 2021 at 5:00 PM.		BID NO.: ITB22KO-114	
DATE: 9/15/2021		PROCUREMENT AGENT: KO		BID TITLE: CDVI Access Controls Purchase and Installation	
VENDOR NAME					
VENDOR MAILING ADDRESS		REASON FOR NOT SUBMITTING BID			
CITY - STATE - ZIP CODE		POSTING OF BID TABULATIONS Bid tabulations with intended award(s) will be posted electronically for review by interested parties at https://procurement.ufl.edu/ and will remain posted for a period of 72 hours excluding Saturdays, Sundays, or state holidays. Failure to file a protest in accordance with Board of Governors (BOG) Regulation 18.002 or failure to post the bond or other security as required in the BOG regulations 18.002 and 18.003(3), shall constitute a waiver of protest proceedings.			
AREA CODE	TELEPHONE NO.				
	FAX NO.				
	WEB ADDRESS				
	EMAIL ADDRESS				

I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm or person submitting a bid for the same materials, supplies, or equipment and is in all respects fair and without collusion or fraud. I agree to abide by all conditions of this bid and certify that I am authorized to sign this bid for the vendor and that the vendor is in compliance with all the requirements of the Invitation to Bid, including but not limited to, certification requirements. In submitting a bid on behalf of the Board of Trustees, hereinafter known as the University, the vendor offers and agrees that if the bid is accepted the vendor will convey, sell, assign, or transfer to the University all rights, title and interest in and to all causes of action it may now or hereafter acquire under the Anti-trust laws of the United States and the University for price fixing relating to the particular commodities or services purchased or acquired by the University. At the

University's discretion, such assignment shall be made and become effective at the time the purchasing agency tenders final payment to the vendor.

 AUTHORIZED SIGNATURE (MANUAL)

 NAME AND TITLE (TYPED)

GENERAL CONDITIONS

SEALED BIDS: All bid sheets and this form must be executed and submitted in a sealed envelope. (DO NOT INCLUDE MORE THAN ONE BID PER ENVELOPE.) The face of the envelope shall contain, in addition to the above address, the date, and time of the bid opening and the bid number. Bids not submitted on the attached bid form shall be rejected. All bids are subject to the conditions specified herein. Those which do not comply with these conditions are subject to rejection.

1. **EXECUTION OF BID:** Bid must contain an original manual signature of authorized representative in the space provided above. Bid must be typed or printed in ink. Use of erasable ink is not permitted. All corrections to prices made by vendor must be initialed.

2. **NO BID:** If not submitting a bid, respond by returning only this vendor acknowledgment form, marking it "NO BID", and explain the reason in the space provided above. Failure to respond to a procurement solicitation without giving justifiable reason for such failure, nonconformance to contract conditions, or other pertinent factors deemed reasonable and valid shall be cause for removal of the supplier's name from the bid mailing list. NOTE: To qualify as a respondent, vendor must submit a "NO BID", and it must be received no later than the stated bid opening date and hour.

3. **BID OPENING:** Shall be public, on the date, location and the time specified on the bid form. It is the vendor's responsibility to assure that the bid is delivered at the proper time and place of the bid opening. Bids which for any reason are not so delivered will not be considered. A bid may not be altered after opening of the bids. NOTE: Bid tabulations will be posted electronically at <https://procurement.ufl.edu/>. Bid tabulations will not be provided by telephone.

4. **PRICES, TERMS AND PAYMENT:** Firm prices shall be bid and will include all packing, handling, shipping charges, and delivery to the destination shown herein.

(a) **TAXES:** The University does not pay Federal Excise and Sales taxes on direct purchases of tangible personal property or services. The Florida Tax Exempt Number is 11-06-024056-57C. This exemption does not apply to purchases of tangible personal property or services made by vendors who use the tangible personal property or services in the performance of contracts for the improvement of University-owned real property as defined in Chapter 192, F.S.

(b) **DISCOUNTS:** Vendors are encouraged to reflect trade discounts in the unit prices quoted; however, vendors may offer a discount for prompt payment. Prompt payment discounts will not be considered in the bid award. However, every effort will be made to take the discount within the time offered.

(c) **MISTAKES:** Vendors are expected to examine the specifications, delivery schedule, bid prices, extensions, and all instructions pertaining to supplies and

services. Failure to do so will be at vendor's risk. In case of a mistake in extensions the unit price will govern.

(d) **INVOICING AND PAYMENT:** Payment will be made by the University of Florida after the items awarded to a vendor have been received, inspected, and found to comply with award specifications, free of damage or defect and properly invoiced. All invoices shall bear the purchase order number. Payment for partial shipments shall not be made unless specified. An original invoice shall be submitted. Failure to follow these instructions may result in delay in processing invoices for payment. Payment shall be made in accordance with Section 215.422 (1) (2) F.S. VENDOR OMBUDSMAN: The University's vendor ombudsman, whose duties include acting as an advocate for vendors may be experiencing problems in obtaining payment from the University, may be contacted at 352-392-1241.

(e) **ANNUAL APPROPRIATIONS:** The University's performance and obligation to pay under any contract awarded is contingent upon an annual appropriation by the Legislature.

(f) **CONDITION AND PACKAGING:** It is understood and agreed that any item offered or shipped as a result of this bid shall be a new, current standard production model available at the time of this bid. All containers shall be suitable for storage or shipment, and all prices shall include standard commercial packaging.

(g) **SAFETY STANDARDS:** Unless otherwise stipulated in the bid, all manufactured items and fabricated assemblies shall comply with applicable requirements of Occupational Safety and Health Act and any standards hereunder.

5. **CONFLICT OF INTEREST:** The award hereunder is subject to the provisions of Chapter 112, F.S. All vendors must disclose with their bid the name of any officer, director, or agent who is also an employee of the University of Florida. Further, all vendors must disclose the name of any University employee who owns, directly or indirectly, an interest of five percent (5%) or more in the vendor's firm or any of its branches.

6. **AWARDS:** As the best interest of the University may require, the right is reserved to make award(s) by individual item, group of items, all or none or a combination thereof; to reject any and all bids or waive any minor irregularity or technicality in bids received. When it is determined there is no competition to the lowest responsible vendor, evaluation of other bids are not required. Vendors are cautioned to make no assumptions unless their bid has been evaluated as being responsive.

7. **INTERPRETATIONS/DISPUTES:** Any questions concerning conditions or specifications shall be directed in writing to the Procurement Department. Inquiries must reference the date of bid opening and bid number. No interpretations shall be considered binding unless provided in writing by the University in response to requests in full compliance with this provision.

8 NOTICE OF BID PROTEST BONDING REQUIREMENT: Any person or entity who files an action protesting a decision or an intended decision pertaining to a competitive solicitation shall at the time of filing the formal protest, post with the University a bond payable to the University in an amount equal to: 10% of the estimated value of the protestor's bid or proposal; 10% of the estimated expenditure during the contract term; \$10,000.00; or whichever is less. The bond shall be conditioned upon the payment of all costs which may be adjudged against the person or entity filing the protest action. In lieu of a bond, the University may accept a cashier's check, bank official check or money order in the amount of the bond. **FAILURE OF THE PROTESTING PERSON OR ENTITY TO FILE THE REQUIRED BOND, CASHIER'S CHECK, BANK OFFICIAL CHECK OR MONEY ORDER AT THE TIME OF THE FILING THE FORMAL PROTEST SHALL RESULT IN DENIAL OF THE PROTEST.**

9. GOVERNMENTAL RESTRICTIONS: In the event any governmental restrictions may be imposed which would necessitate alteration of the material, quality, workmanship or performance of the items offered in this bid prior to their delivery, it shall be the responsibility of the successful vendor to notify the purchaser at once, indicating in writing the specific regulation which requires an alteration. The University reserves the right to accept any such alteration, including any price adjustments occasioned thereby, or to cancel the contract at no expense to the University.

10. LEGAL REQUIREMENTS: Applicable provision of all Federal, State, county and local laws, and of all ordinances, rules and regulations shall govern development, submittal and evaluation of all bids received in response hereto and shall govern any and all claims and disputes which may arise between person(s) submitting a bid response hereto and the University, by and through its officers, employees and authorized representatives, or any other person, natural or otherwise; and lack of knowledge by any vendor shall not constitute a cognizable defense against the legal effect thereof.

11. LOBBYING: Vendor is prohibited from using funds provided under any contract or purchase order for the purpose of lobbying the Legislature or any official, officer, commission, board, authority, council, committee, or department of the executive branch or the judicial branch of state government.

12. ADVERTISING: In submitting a bid, the vendor agrees not to use the results therefrom as a part of any commercial advertising. Vendor may not use the names, logos, or trademarks of the University, its employees, or affiliates without the prior written consent of the University.

13. ASSIGNMENT: Any contract or purchase order issued pursuant to this Invitation to Bid and the monies which may become due hereunder are not assignable except with the prior written approval of the purchaser.

14. LIABILITY: The vendor agrees to indemnify and save the University of Florida, the State of Florida and the Florida Board of Governors, their officers, agents, and employees harmless from any and all judgments, orders, awards, costs and expenses, including attorney's fees, and also all claims on account of damages to property, including loss of use thereof, or bodily injury (including death) which may be hereafter sustained by the vendor, its employees, its subcontractors, or the University of Florida, the State of Florida and the Florida Board of Governors, their officers, agents, or employees, or third persons, arising out of or in connection with any contract awarded and which are the result of the vendor's breach of contract or of the negligent acts of the vendor, its officers, agents, and employees. This clause does not apply to contracts between government agencies.

15. FACILITIES: The University reserves the right to inspect the vendor's facilities at any time with prior notice.

16. ADDITIONAL QUANTITIES: For a period not exceeding ninety (90) days from the date of acceptance of any offer by the University of Florida, the right is reserved to acquire additional quantities up to but not exceeding those shown on bid or the bid level at the prices bid in this invitation. If additional quantities are not acceptable, the bid sheets must be noted "BID IS FOR SPECIFIED QUANTITY ONLY".

17. SERVICE AND WARRANTY: Unless otherwise specified, the vendor shall define any warranty service and replacements that will be provided during and subsequent to this contract. Vendors must explain on an attached sheet to what extent warranty and service facilities are provided.

18. SAMPLES: Samples of items, when called for, must be furnished free of expense, on or before bid opening time and date, and if not destroyed, may upon request, be returned at the vendor's expense. Each individual sample must be labeled with vendor's name, manufacturer's brand name and number, bid number and item reference. Request for return of samples shall be accompanied by instructions which include shipping authorization and name of carrier and must be received with the bid. If instructions are not received within this time, the commodities shall be disposed of by the University.

19. INSPECTION, ACCEPTANCE AND TITLE: Inspection and acceptance will be at destination unless otherwise provided. Title and risk of loss or damage of all items shall be the responsibility of the contract supplier until accepted by the University, unless loss or damage results from negligence by the University. The contract supplier shall be responsible for filing, processing and collecting all damage claims. However, to assist him in the expeditious handling of damage claims, the University will:

- (a) Record any evidence of visible damage on all copies of the delivering carrier's Bill of Lading.
- (b) Report damage (Visible or Concealed) to the carrier and contract supplier confirming such reports in writing within 15 days of delivery, requesting that the carrier inspect the damaged merchandise.
- (c) Retain the item and its shipping container, including inner packing material until inspection is performed by the carrier, and disposition given by the contract supplier.
- (d) Provide the contract supplier with a copy of the carrier's Bill of Lading and damage inspection report.

20. PATENTS, COPYRIGHTS, TRADEMARKS, ROYALTIES and other Intellectual Property: The vendor, without exception, shall indemnify and save harmless the University and its employees from liability of any nature or kind, including cost and expenses for or on account of any copyrighted, patented, or unpatented invention, process, or article manufactured or used in the performance of the contract, including its use by the University of Florida. If the vendor uses any design, device, or materials covered by letters, patent or copyright, it is mutually agreed and understood without exception that the bid prices shall include all royalties or costs arising from the use of such design, device, or materials in any way involved in the work.

21. CONFLICT BETWEEN DOCUMENTS: If any terms and conditions contained within the documents that are a part of this ITB or resulting contract are in conflict with any other terms and conditions contained therein, then the various documents comprising this ITB or resulting contract, as applicable, shall govern in the following order of precedence: change order, purchase order, addenda, special conditions, general conditions, specifications, departmental description of work, and bid.

22. INTENTIONALLY OMITTED.

23. NONCONFORMANCE TO CONTRACT CONDITIONS: Items may be tested and/or inspected for compliance with specifications by any appropriate testing facilities. Should the items fail, the University may require the vendor to reimburse the University for costs incurred by the University in connection with the examination or testing. The data derived from any tests for compliance with specifications are public records and open to examination thereto in accordance with Chapter 119, F.S. Items delivered not conforming to specifications may be rejected and returned at vendor's expense. These items and items not delivered as per delivery data in bid and/or purchase order may result in vendor being found in default in which event any and all procurement costs may be charged against the defaulting vendor. Any violation of these conditions may also result in the vendor's name being removed from the University of Florida's vendor file.

24. PUBLIC RECORDS: Any material submitted in response to this Invitation to Bid will become a public document pursuant to Section 119.07 F.S. This includes material which the responding vendor might consider to be confidential or a trade secret. Any claim of confidentiality is waived upon submission, effective after opening pursuant to Section 119.07 F.S.

25. DELIVERY: Unless actual date of delivery is specified (or if specified delivery cannot be met), show number of days required to make delivery after receipt of purchase order in space provided. Delivery time may become a basis for making an award (see Special Conditions). Delivery shall be within the normal working hours of the University of Florida, Monday through Friday, unless otherwise specified.

26. PUBLIC PRINTING - PREFERENCE GIVEN PRINTING WITHIN THE STATE: The University of Florida shall give preference to vendors located within the state when awarding contracts to have materials printed, whenever such printing can be done at no greater expense than, and at a level of quality comparable to, that obtainable from a vendor located outside of the state.

(a) **CONTRACTS NOT TO BE SUBLET:** In accordance with Class B Printing Laws and Regulations "Printing shall be awarded only to printing firms. No contract shall be awarded to any broker, agent, or independent contractor offering printing manufactured by other firms or persons."

(b) **DISQUALIFICATION OF VENDOR:** Reasonable grounds for believing that a vendor is involved in more than one bid for the same work will be cause for rejection of all bids in which such vendors are believed to be involved. Any or all bids will be rejected if there is reason to believe that collusion exists between vendors. Bids in which the prices obviously are unbalanced will be subject to rejection.

(c) **TRADE CUSTOMS:** Current trade customs of the printing industry are recognized unless accepted by Special Conditions or Specifications herein.

(d) **COMMUNICATIONS:** It is expected that all materials and proofs will be picked up and delivered by the printer or his representative, unless otherwise specified. Upon request, materials will be forwarded by registered mail.

(e) **RETURN OF MATERIAL:** All copy, photos, artwork, and other materials supplied by the University of Florida must be handled carefully and returned in good condition upon completion of the job. Such return is a condition of the contract and payment will not be made until return is affected.

27. E-VERIFY COMPLIANCE. Agency is obligated to comply with the provisions of Section 448.095, Fla. Stat., "Employment Eligibility." Compliance with Section 448.095, Fla. Stat., includes, but is not limited to, utilization of the E-Verify System to verify the work authorization status of all newly hired employees. Vendor affirms and represents that it is registered with the E-Verify system and are using same and will continue to use same as required by Section 448.095, Fla. Statute.

END OF SECTION

PURPOSE AND SCOPE

The University of Florida is seeking bids from vendors to provide:

LOT 1 (CDVI Installation at GCREC)

SCOPE OF WORK: Provide and install CDVI keypad locksets, as listed below and described in Attachments A-C, on multiple doors in Buildings 5201, 5202 and 5237 at the Gulf Coast Research and Education Center (GCREC) in Balm, FL. No substitutions accepted. All keypad locksets are to be hardwired to the building's network per manufacturer's recommendations.

SPECIFIED MATERIALS AND QUANTITIES:

1. 42 ATRIUM CDVI A22 KITSTB CONTROLLERS
2. 78 ASSA ABLOY HES 1500 ELECTRIC STRIKES
3. 1 SCHLAGE AD-400 WIRELESS ELECTRONIC LOCKS
4. 1 SCHLAGE PIM-400 GATEWAY
5. 21 BACK UP BATTERIES
6. 22-8 WIRE FOR READERS AND 18-2 WIRE FOR ELECTRIC STRIKES

Attachment A - A site map and floorplans (4 Pages).

Attachment B - Lockset breakdown for each building (2 Pages).

Attachment C - Equipment documentation (29 Pages).

LOT 2 (CDVI Product and Labor Rates)

The intention of Lot 2 is to establish an indefinite quantity, firm fixed price contract, to cover all CDVI products, and labor, for future purchases over a 12-month period with the option to renew for two additional 12-month periods. Orders will be placed from time to time in such quantities as may be needed to fill any requirements of the University of Florida. As it is impossible to determine the precise quantities that may be needed, the contractor is obligated to deliver any of the items or combination of items contracted for in accordance with the General and Special Conditions of this bid.

Provide a price list of CDVI products offered and labor rates associated with those products. Include product list price, discount offered and extended price, as well as labor rates.

NON-TECHNICAL SPECIFICATIONS

- 1. INVITATION TO BID FORM** - All bids should be submitted on the University of Florida Invitation to Bid/Bidders Acknowledgment form with one (1) complete original bid and one (1) electronic copy in a sealed envelope, with the following information on the outside of the envelope: bid number, date and time of bid opening, and Company name.
- 2. FLORIDA PREFERENCE**—Preference for Florida Based Vendors for Purchases of Personal Property in accordance with 287.084 Florida Statute; a preference shall be provided to vendors with a principal place of business in Florida. If the lowest responsible and responsive bid for personal property is from a vendor whose principal place of business is outside of Florida and is in a state or political subdivision thereof that grants a preference for the same purchase of personal property to a vendor in such state or political subdivision, as applicable, then the University shall grant the same preference to the Florida based vendor with the lowest responsible and responsive bid received pursuant to this Invitation to Bid.

If the lowest responsible and responsive bid is from a vendor whose principal place of business is in a state that does not grant a preference for the purchase of personal property to a vendor in such state, then the University shall grant a preference in the amount of 5 percent to the lowest and responsive Florida base vendor.

For vendors whose principal place of business is outside of Florida, such vendors must, at the time of submitting its bid, provide a written opinion from a licensed attorney in its state specifying (a) the preference(s) granted by the state or political subdivision and (b) how the preference(s) is/are calculated.

The attached Attestation of Principal Place of Business must be completed and returned with your ITB response.

- 3. BID DELIVERY** - If this bid will be mailed through the U. S. Postal Service as regular mail, address the bid to the PO Box as shown on the Invitation to Bid Acknowledgment Form.

If a company representative plans to attend the bid opening; if the bid will be hand delivered; or if the bid will be delivered by a service other than the U. S. Postal Service regular mail, i.e., Federal Express, Airborne, United Parcel Service, Courier, U. S. Postal Express Mail, etc., address the bid to the Building and room number as shown on the Invitation to Bid Acknowledgment form.

Bids are due October 5, 2021 at 3:00 PM.

- 4. INQUIRIES** - The University will not give verbal answers to inquiries regarding the specifications, or verbal instructions prior to or after the award of the bid. A verbal statement regarding same by any person shall be non-binding. The University is not liable for any increased costs resulting from the Bidder accepting verbal direction. All changes, if necessary, shall be made by written addendum to the bid.

Any explanation desired by bidders must be requested of UF Procurement Services, in writing, and if an explanation is necessary, a reply shall be made in the form of an addendum. Direct all inquiries to Karen Olitsky, Procurement Agent III, kolitsk@ufl.edu.

The University will make a good-faith effort to provide a written response to each question or request for clarification that requires addenda within five (5) University business days.

All addenda will be posted to UF Procurement Services' web site only:

<https://procurement.ufl.edu/vendors/schedule-of-bids/>

Bidders who want the addenda supplied to them in another form must notify the Procurement Agent listed above of that request. Otherwise, it will be the bidder's responsibility to check the web site for any additional information and addenda concerning this ITB.

The University may not respond to any questions/requests for clarification that require addenda, if received by the University after **09/22/2021 at 5:00 PM**.

5. **QUALIFICATIONS OF BIDDERS** - This bid will be awarded only to a responsible bidder qualified by experience to provide the work specified. If the bidder has not been pre-qualified with University Procurement within the fiscal year (July 1 through June 30), the following evidence of eligibility may be required to be submitted:
 - A. Evidence that bidder is licensed by the appropriate government agency to perform the work specified.
 - B. Experience record showing bidder's training and experience in similar work.
 - C. Projects of similar size and/or complexity which have been completed satisfactorily. List should include names of contracts, dates of contracts, location, and names and addresses of owners.
6. **AWARD** - Award will be made on a "Per Lot" basis. Each Lot will be looked at independently of other lots to determine which vendor(s) will be awarded or if the award will be made at all. Any contract awarded pursuant to this ITB will be awarded to the best bidder/proposer(s) or to none at all.
7. **ANNUAL CONTRACTS (LOT 2 ONLY)**
 - A. Term of Contract—The effective period of contract resulting from this bid will be for 12 months beginning at the date of award. The University of Florida shall have the option to renew this bid for two additional 12-month periods upon written notice to and acceptance by the contractor.
 - B. Supply Requirements – The contractor shall be able to deliver all items which may be requested during the contract term in accordance with the terms and conditions of this bid. In the event the contractor cannot supply any item for any reason, it will be the contractor's responsibility to temporarily supply another item of equivalent quality at contract prices as an emergency measure, subject to prior approval of the appropriate University Department. Determination of equivalency of the item shall be the responsibility of the University, whose decision shall be final.
 - C. Delivery Requirement - Delivery time will be communicated between the awarded vendor and the University Department placing the order.

- D. Placement of Orders - The following office may issue purchase orders against any contract resulting from this bid:

University of Florida
Purchasing Services
Elmore Hall Room 102
PO Box 115250
Gainesville FL 32611-5250

Orders will be placed using one of the following:

- a. Purchase order for fixed quantities and one delivery.
 - b. Blanket delivery order purchase order for items covered by the contract which will be ordered on an "as needed" basis. Each order will specify an estimated dollar amount to cover anticipated purchases, which may be increased or decreased by Change Order. Authorization to ship items may be in a verbal or written form.
- E. Urgent Requirements - In the case of a bona fide emergency and the contractor cannot meet the delivery requirement, the University reserves the right to order from any vendor that can meet such delivery requirement. This provision will not be used to circumvent the intent of the contract.
- F. The successful vendor agrees to furnish quarterly to the University a summary of total sales made under this contract.
- 8. CANCELLATION** - University Procurement, by written notice, may terminate in whole or in part any purchase order resulting from this Invitation to Bid, when such action is in the best interest of the University. If the purchase order is terminated, the University shall be liable only for payment of services rendered prior to the effective date of the termination. Services rendered will be interpreted to include the cost of items already delivered, plus the reasonable cost of supply action short of delivery.
- 9. RIGHT TO TERMINATE** - In the event that any of the provisions of a contract resulting from the bid award are violated by the successful bidder, the University may serve written notice upon such bidder of its intention to terminate the contract. Such notice is to state the reason(s) for such intention to terminate the contract, and unless within ten (10) days after serving such notice upon the bidder, such violation shall cease and satisfactory arrangements for correction are made, the contract shall, upon expiration of said ten (10) days, cease and terminate, but the liability of such bidder and his surety for any and all such violations(s) shall not be affected by any such termination.
- 10. AS SPECIFIED** - A purchase order will be issued to the successful bidder with the understanding that all items delivered must meet the specifications herein. Items delivered not as specified will be returned to the vendor, at no expense to the University, and vendor will be required to deliver items meeting specifications or be held in default.
- 11. EQUIVALENTS** - Alternatives from the manufacturer specified will not be accepted.

- 12. F.O.B. POINT** – The F.O.B. Point shall be destination. Exact delivery point will be indicated on the Purchase Order.
- 13. ASSEMBLY AND/OR PLACEMENT** - It will be the responsibility of the successful bidder to supply the necessary labor and materials for the placement of all equipment as specified in the Invitation to Bid and assure proper adjustment and satisfactory operation of all features prior to acceptance by the University.
- 14. DEBRIS** - Successful bidder shall be responsible for the prompt removal of all debris which is a result of delivery, assembly, or installation.
- 15. PROTECTION OF PROPERTY** - The successful bidder shall at all times guard against damage or loss to the property of the University or of other vendors or contractors and shall be held responsible for replacing or repairing any such loss or damage. The University may withhold payment or make such deductions as deemed necessary to insure reimbursement or replacement for loss or damage to property through negligence of the successful bidder or his agents. The contractor shall provide all barricades and take all necessary precautions to protect buildings and personnel.
- 16. OSHA REGULATIONS** - It is the responsibility of the contractor to ensure that ALL OSHA regulations applying to this job are adhered to at all times.
- 17. DELIVERY COSTS** - All costs for delivery, storage, freight, and packing are to be prepaid by the contractor, FOB, University of Florida or address as listed in the Invitation to Bid.
- 18. WARRANTY** - The successful bidder shall furnish factory warranty on all equipment furnished against defect in material and/or workmanship. The factory warranty shall become effective on the date of delivery and acceptance by the University. Should any defect in material or workmanship, excepting ordinary wear and tear, appear during the above stated warranty period, the successful bidder shall repair or replace same at no cost to the University immediately upon written notice from University Purchasing. The successful bidder will not be liable under the above warranty for any defects or damages resulting from unforeseeable causes beyond the control and without the fault or neglect by the University, acts of God, fires, floods, and hurricanes.
- 19. MAINTENANCE AND INSTRUCTION MANUALS** - The successful bidder shall include at least one copy of an instruction manual with each unit supplied. This manual shall include at least a minimum of operating instructions, maintenance and repair information, including schematic diagrams and a list of available replacement parts.
- 20. INSURANCE** – The Contractor shall purchase from and maintain with a company or companies, lawfully authorized to do business in Florida and acceptable to the University, such insurance as will protect the Contractor from claims arising out of or resulting from the Contractor's operations under the Contract and for which the Contractor may be legally liable, whether such operations be by the Contractor or by a Subcontractor or by anyone directly or indirectly employed by any of them, or by anyone for whose acts any of them may be liable. All insurance policies shall be issued and countersigned by representatives of such companies duly authorized for the State of Florida and shall be written on ISO standard forms or their equivalents. The Contractor shall file with the University Certificates of Insurance prior to the commencement of the work and shall file certificates

of insurance evidencing the renewal of such policies at least thirty (30) days prior to the date the each applicable insurance policy is scheduled to expire. Please note that the University of Florida must be named "additional insured" on automobile and general liability policies.

Contractors Liability Insurance - The Contractor shall provide the ISO Commercial General Liability policy for general liability coverage's for limits of not less than of \$500,000 per occurrence. Coverage's shall be maintained without interruption from date of commencement of work until date of final payment.

Automobile Liability - The Contractor shall secure and maintain during the life of this Agreement, Automobile Liability insurance on all vehicles against bodily injury and property damage in the amount of at least, \$500,000 per occurrence.

Worker's Compensation - The Contractor shall secure and maintain for the life of this Agreement, valid Worker's Compensation Insurance as required by Chapter 440, Florida Statutes.

21. LIMITATION OF REMEDIES - Contractor's entire liability and the State's exclusive remedy shall be as follows:

In all situations involving performance or non-performance of machines or programming furnished under this Agreement, the State's remedy is (a) the adjustment or repair of the machine or replacement of its parts by Contractor, or at Contractor's option, replacement of the machine or correction of programming errors, or (b) if, after repeated efforts, Contractor is unable to install the machine or a replacement machine, model upgrade of feature in good working order, or to restore it to good working order, or to make programming operate, all as warranted, the State shall be entitled to recover actual damages to the limits set forth in this Special Condition. For any other claim concerning performance or non-performance the Contractor pursuant to, or in any other way related to the subject matter of, this Agreement or any order under this Agreement, the State shall be entitled to recover actual damages to the limits set forth in this Special Condition.

Contractor shall hold and save the State harmless for any and all suits and judgments against the State for personal injury or damage to real or personal property caused by Contractor's tortious conduct in the performance of this Agreement provided that, (a) the State promptly notified Contractor in writing of any claim, and (b) Contractor shall be given the opportunity, at its option, to participate and associate with the State in the control, defense and trial of any claims and any related settlement negotiations and, provided further, that with respect to any claim or portion thereof for which Contractor agrees at the initiation of such claim that Contractor shall save and hold the State harmless.

In no event, however, will Contractor be liable for (a) any damages caused by the State's failure to reform the State's responsibilities, or for (b) any lost profits or other consequential damages, even if Contractor has been advised of other party, except as provided in the hold harmless provision of the preceding paragraph of this Special Condition and except as provided in the General Condition entitled "Patents and Royalties", or for (c) any damages caused by performance or non-performance of machines or programming located outside the United States or Puerto Rico.

22. NOTICE TO CONTRACTORS OF ASBESTOS-CONTAINING MATERIALS IN UNIVERSITY BUILDINGS -

Asbestos containing materials (ACM) can be found in almost any building in the United States more

than 10 years old. The University of Florida is no exception. The types of asbestos most commonly found are pipe and boiler insulation, fireproofing, hard panels known as "Transite", floor tile, and spray or trowel-applied ceiling finishes. ACM is generally not hazardous if left undisturbed.

The University has implemented an Asbestos Program to assure safe management and removal of ACM. Contractors, consultants, and other vendors providing service to the University may encounter ACM and must, therefore, comply with the following instructions:

- A. Avoid disturbing suspected ACM. Exercise caution and watch for possible ACM.
- B. If it is necessary to disturb ACM, first notify the appropriate Division Asbestos
- C. Representative listed in this notice, or the University of Florida Asbestos Coordinator, before proceeding with your work. You shall take whatever precautions are necessary to protect humans' health and the environment, and comply with all applicable Federal, State, and Local laws pertaining to asbestos.
- D. If you require additional information on possible locations of ACM in a particular building, contact the Asbestos Representative from the Division for which you are working.

<u>Division</u>	<u>Asbestos Representative</u>	<u>Telephone</u>
Facilities Services	Assistant Director	(352) 392-6351
Health Center	Assistant Director	(352) 273-5991
Housing	Assistant Director	(352) 846-4795
IFAS	Associate Director	(352) 294-3821
Reitz Union	Maintenance Superintendent	(352) 392-1617

23. SMALL BUSINESS PROGRAM - University is an equal opportunity institution and, as such, encourages the use of small businesses, including women and minority-owned small businesses in the provision of goods and services. Small businesses should have a fair and equal opportunity to compete for dollars spent by the University. Competition ensures that prices are competitive, and a broad vendor base is available. Vendor shall use good faith efforts to ensure opportunities are available to small businesses, including women and minority-owned businesses. For questions about the University's Small Business Program contact Dwan Courtney, Director of Small Business and Supplier Diversity, 352-392-0380.

24. USE OF TERMS: - The terms University of Florida, University, Institute of Food and Agriculture Sciences, IFAS, Gulf Coast Research and Education Center and GCREC are used synonymously in this ITB unless otherwise indicated. The terms vendor, proposer, bidder and contractor are used synonymously in this ITB unless otherwise indicated. The terms bid, proposal and submittal are used synonymously in this ITB.

25. OTHER PURCHASERS – With the consent and agreement of the successful bidder(s) purchases may be made under this ITB by other state universities, community colleges, district school boards, other educational institutions, and other governmental agencies within the State of Florida. Such purchases shall be governed by the same terms and conditions stated in the solicitation.

26. OPEN COMPETITION - The University encourages free and open competition among vendors. Whenever possible, specifications and proposal terms and conditions are designed to accomplish

the objective, consistent with the necessity to satisfy the University's needs and the accomplishment of a sound economical operation. The vendor's signature on the proposal guarantees that the prices quoted have been established without collusion with other vendors and without effort to preclude the University from obtaining the lowest possible competitive price. The vendor certifies that its officers or employees have not bribed or attempted to bribe or influence in any way on officer, employee or agent of the University.

- 27. VENDOR'S EXPENSE** – All proposals submitted in response to the ITB must be submitted at the sole expense of the Vendor, whether or not any agreement is signed as a result of this Invitation to Bid. Proposers will pay all costs associated with the preparation of proposals and necessary visits to campus and other required site visits.
- 28. ERRORS** – The University is not liable for any errors or misinterpretations made by the proposer in responding to this Request for Proposal.
- 29. ITB INTERPRETATION** – Interpretation of the wording of this document will be the responsibility of the University and that interpretation will be final and binding.
- 30. AVAILABILITY OF FUNDS** - The State of Florida's and the University's performance and obligation to pay under this contract is contingent upon an annual appropriation by the Legislature of the State of Florida.
- 31. EQUAL OPPORTUNITY STATEMENT** - The State Universities have established equal opportunity practices which conform to both the spirit and the letter of all laws against discrimination and prohibits discrimination based on race, creed, color, sex, age, national origin, marital status or religion. To be considered for inclusion as a supplier under this agreement, the proposer commits to the following:
- A. The provisions of Executive Order 11246, September 24, 1966, and the rules, regulations and relevant orders of the Secretary of Labor are applicable to each order placed against this agreement regardless of value.
 - B. If the proposer expects to receive \$10,000 in orders during the first 12 months of this agreement, a complete certificate of non-segregated facilities shall be attached to the proposal response.
 - C. If the proposer expects to receive \$50,000 in orders during the first 12 months of this agreement and employs more than 50 people, standard form 100 (EEO-1) must be filed prior to March 1 of each year.
 - D. If the proposer expects to receive \$50,000 in orders during the first 12 months and employs more than 50 people, a written program for affirmative action compliance must be maintained by the proposer, subject to review upon request by the user agencies of this agreement.
- 32. AMERICANS WITH DISABILITY ACT** - If special accommodations are needed in order to attend a pre-bid meeting or a bid opening, contact Karen Olitsky at kolitsk@ufl.edu, three (3) business days prior to the pre-bid meeting or the bid opening.
- 33. PRISON REHABILITATIVE INDUSTRIES** - IT IS EXPRESSLY UNDERSTOOD AND AGREED THAT ANY ARTICLES THAT ARE THE SUBJECT OF, OR REQUIRED TO CARRY OUT, THIS CONTRACT SHALL BE PURCHASED FROM A NONPROFIT AGENCY FOR THE BLIND OR FOR THE SEVERELY HANDICAPPED

THAT IS QUALIFIED PURSUANT TO CHAPTER 413, FLORIDA STATUTES, IN THE SAME MANNER AND UNDER THE SAME PROCEDURES SET FORTH IN SECTION 413.036(1) AND (2), FLORIDA STATUTES; AND FOR PURPOSES OF THIS CONTRACT THE CONTRACTOR SHALL BE DEEMED TO BE SUBSTITUTED FOR THE UNIVERSITY INsofar AS DEALINGS WITH SUCH QUALIFIED NONPROFIT AGENCY ARE CONCERNED. This requirement applies only if any such nonprofit agency produces a product covered by this CONTRACT and can satisfy the terms of this CONTRACT with respect to price, quantity, quality, and delivery time. Any questions concerning available products should be directed to: Division of Vocational Rehabilitation Headquarters, 2002 Old St. Augustine Road, Building A, Tallahassee, Florida 32301-4862, (800) 451-4327 (Voice/TDD).

IT IS EXPRESSLY UNDERSTOOD AND AGREED THAT ANY ARTICLES WHICH ARE THE SUBJECT OF, OR REQUIRED TO CARRY OUT, THIS CONTRACT SHALL BE PURCHASED FROM THE CORPORATION IDENTIFIED UNDER CHAPTER 946, F.S., IN THE SAME MANNER AND UNDER THE SAME PROCEDURES SET FORTH IN SECTION 946.515(2), AND (4), F.S.; AND FOR PURPOSES OF THIS CONTRACT THE CONTRACTOR CARRYING OUT THE PROVISIONS OF THIS CONTRACT SHALL BE DEEMED TO BE SUBSTITUTED FOR UNIVERSITY INsofar AS DEALINGS WITH SUCH CORPORATION ARE CONCERNED. This requirement applies only if the corporation produces a product covered by this CONTRACT and can satisfy the terms of this CONTRACT with respect to price, quantity, quality, and delivery time. Any questions concerning the corporation's ability to provide products or services should be directed to: Prison Rehabilitative Industries and Diversified Enterprises, Inc., 12425 - 28th Street North, Saint Petersburg, Florida 33716, (727) 572-1987.

- 34. PUBLIC ENTITY CRIME** - A person or affiliate who has been placed on the convicted vendor list by the Department of Management Services, State of Florida, may not submit a proposal on a contract to provide any goods or services, including construction, repairs, or leases and may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant for the University of Florida for a period of 36 months from the date of being placed on the convicted vendor list, a "person" or "affiliate" includes any natural person or any entity, including predecessor or successor entities or any entity under the control of any natural person who is active in its management and who has been convicted of a public entity crime (Section 287.133 Florida Statutes).
- 35. FEDERAL DEBARMENT** - By signing this bid/proposal, the offeror certifies, to the best of its knowledge or belief, that the offeror and its principals are not presently debarred, suspended, proposed for debarment, or declared ineligible for the award of contracts by any Federal agency; or have not within a three-year period preceding this offer, been convicted of or had a civil judgment rendered against them in connection with a public contract or subcontract; or are not criminally or civilly charged by a governmental entity with commission of offenses; or has not within a three year period preceding this offer had a contract terminated for default by any Federal agency. (Federal Acquisition Regulation 52.209-5).
- 36. DISCRIMINATION** – An entity or affiliate who has been placed on the discriminatory vendor list may not submit a bid on a contract to provide goods or services to a public entity, may not submit a bid on a contract with a public entity for the construction or repair of a public building or public work, may not submit bids on leases of real property to a public entity, may not award or perform work as a contractor, supplier, subcontractor or consultant under contract with any public entity, and may not transact business with any public entity.

37. CONFIDENTIALITY – From the date of issuance of this ITB, until a proposal is made, the vendor must not make available or discuss his or her proposal, or any part thereof, with any employee or agent of the University, unless permitted by the University Purchasing Authority, in writing, for purposes of clarification only.

38. PUBLIC RECORDS - All proposal information submitted and opened becomes subject to the public records law set forth in Chapter 119 Florida Statutes.

Any resulting Agreement may be unilaterally canceled for refusal by the vendor to allow public access to all documents, papers, letters, or other materials made or received by the Successful Vendor in conjunction with the Agreement and subject to the provisions of Chapter 119. Florida Statutes.

39. CONTRACTOR SHALL IMPLEMENT - a drug-free workplace program in accordance with the requirements of Section 440.102, Florida Statutes.

40. TOBACCO-FREE CAMPUS POLICY – As of July 1, 2010 the University of Florida campus has been tobacco-free. The use of cigarettes or other tobacco products in UF buildings, parking lots, or in vehicles in these areas is prohibited. The successful vendor is expected to respect this smoke free policy and fully comply with it.

41. NOTICE TO CONTRACTOR: - E-VERIFY COMPLIANCE; UNAUTHORIZED ALIEN WORKERS. By entering into a contract with UF, Vendor is obligated to comply with the provisions of Section 448.095, Florida Statutes, "Employment Eligibility." Compliance with Section 448.095, Florida Statutes, includes, but is not limited to, utilization of the E-Verify System to verify the work authorization status of all newly hired employees, and requiring all subcontractors to provide an affidavit attesting that the subcontractor does not employ, contract with, or subcontract with, an unauthorized alien. Vendor affirms and represents that it is registered with the E-Verify system and are using same and will continue to use same as required by Section 448.095, Florida Statutes. The Vendor's employment of unauthorized aliens is considered a violation of Section 274A(e) of the Immigration and Nationality Act. If the Vendor knowingly employs unauthorized alien workers, such violation shall be cause for UF'S unilateral cancellation of the Agreement.

PRICE SHEET

From: _____
 (Company Name/Name & Title of Authorized Agent)

To: **UNIVERSITY OF FLORIDA**
Procurement Services
971 Elmore Drive/PO Box 115250
Gainesville, FL 32611

The undersigned, being invested with the authority of their employer, and having read the Documents for the Bid, as well as the Specifications for the Bid, entitled:

ITB22KO-114 CDVI Access Controls Purchase and Installation

and having familiarized themselves with all conditions affecting and governing the specifications, pricing and delivery of the product and services described herein, hereby proposes to furnish the products and services as per the specifications, in strict compliance with the Bid Documents, Addenda and any other documents relating thereto on file with UF Procurement Services and, if awarded the Contract, agrees to abide by the pricing and delivery terms as per the Documents and as stated herein, for the sums enumerated on this page.

LOT 1 (CDVI Installation at GCREC)

MATERIAL (INCLUDING SHIPPING/HANDLING): \$ _____

INSTALLATION: \$ _____

TOTAL BASE BID PRICE: \$ _____

LOT 2 (CDVI Product and Labor Rates)

Provide a price list of CDVI products offered and labor rates associated with those products. Include product list price, discount offered and extended price, as well as labor rates.

I have carefully prepared this Bid from contact documents described above, I have full authority to make such statements and submit this Bid in (my) (its) (their) behalf, and all statements are true and correct.

 (Signature) (Printed or typed)

 (Address, City State, Zip)

 (Telephone) (Date)

 (Email)

Attestation of Principal Place of Business**University of Florida ITB22KO-114, CDVI Access Controls Purchase and Installation**

Name of Bidder: _____ Business Name: _____

Identify the State in which the Bidder has its principal place of business: _____

Bidder's Signature: _____ Title: _____

INSTRUCTIONS: IF your principal place of business above is located within the State of Florida, provide the information as indicated above and return this form with your bid response. No further action is required. IF your principal place of business is outside of the State of Florida, the following must be completed by an attorney and returned with your bid response. Failure to comply may be considered as non-responsive to the terms of this solicitation.

OPINION OF OUT-OF-STATE BIDDER'S ATTORNEY ON BIDDING PREFERENCES**(To be completed by the Attorney for an Out-of-State Bidder)**

NOTICE: §287.084(2), Florida Statutes, provides that "a vendor whose principal place of business is outside this state must accompany any written bid, proposal, or reply documents with a written opinion of an attorney at law licensed to practice law in that foreign state, as to the preferences, if any or none, granted by the law of that state [or political subdivision thereof] to its own business entities whose principal places of business are in that foreign state in the letting of any or all public contracts." See also § 287.084(1), Florida Statutes.

LEGAL OPINION ABOUT STATE BIDDING PREFERENCES**(Please Select One)**

_____ The Bidder's principal place of business is in the State of _____ and it is my legal opinion that the laws of that state **do not grant a preference** in the letting of any or all public contracts to business entities whose principal places of business are in that state.

_____ The Bidder's principal place of business is in the State of _____ and it is my legal opinion that the laws of that state **grant the following preference(s)** in the letting of any or all public contracts to business entities whose principal places of business are in that State: [Please describe applicable preference(s) and identify applicable state law(s)]:

LEGAL OPINION ABOUT POLITICAL SUBDIVISION BIDDING PREFERENCES**Please Select One)**

_____ The Bidder's principal place of business is in the political subdivision of _____ and it is my legal opinion that the laws of that political subdivision **do not grant a preference** in the letting of any or all public contracts to business entities whose principal places of business are in that political subdivision.

_____ The Bidder's principal place of business is in the political subdivision of _____ and it is my legal opinion that the laws of that political subdivision **grant the following preferences(s)** in the letting of any or all public contracts to business entities whose principal places of business are in that political subdivision: [Please describe applicable preference(s) and identify applicable authority granting the preference(s)]:

Signature of out-of-state Bidder's attorney: _____

Printed name of out-of-state Bidder's attorney: _____

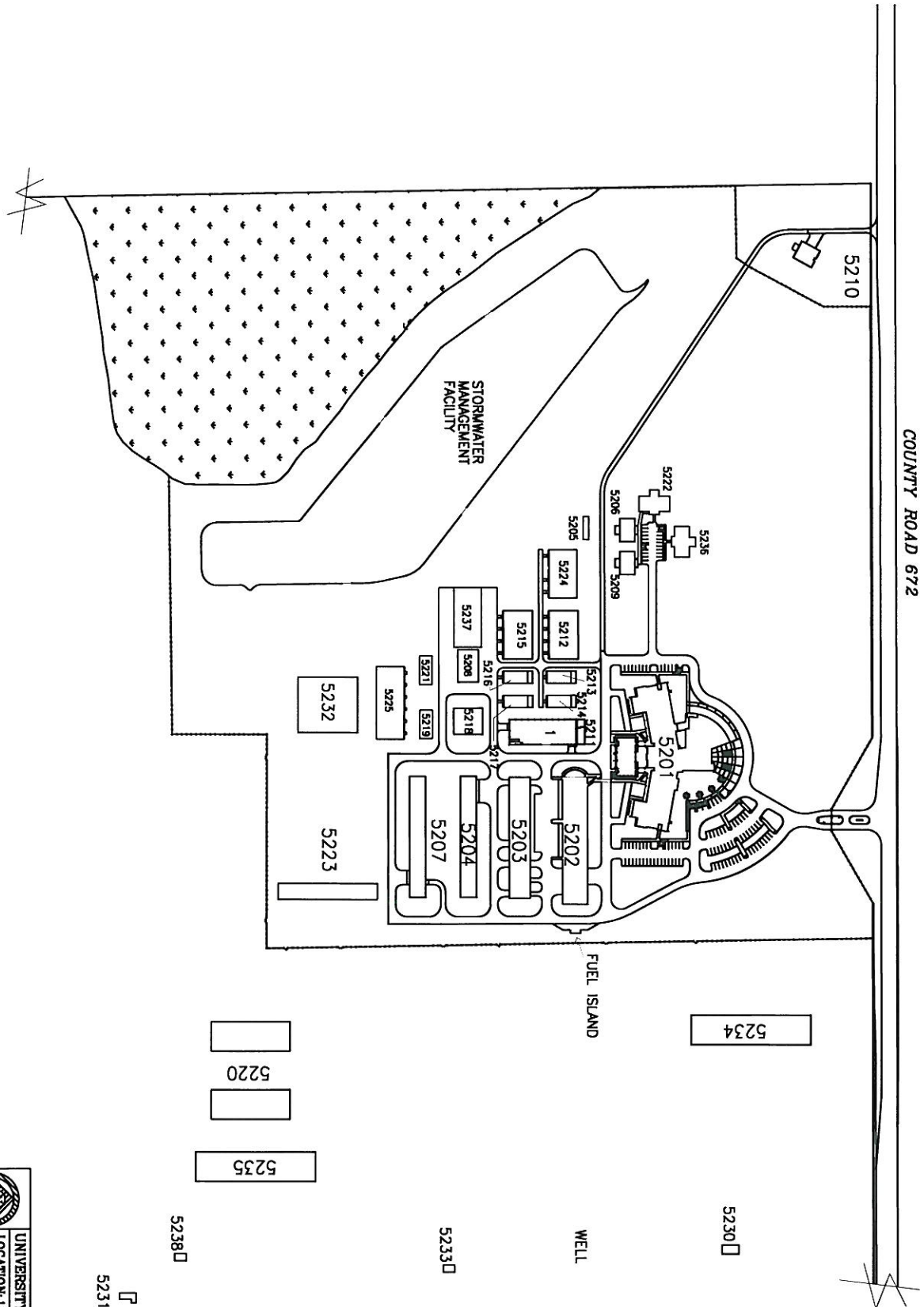
Address of out-of-state Bidder's attorney: _____

Telephone number of out-of-state Bidder's attorney: (_____) _____ - _____

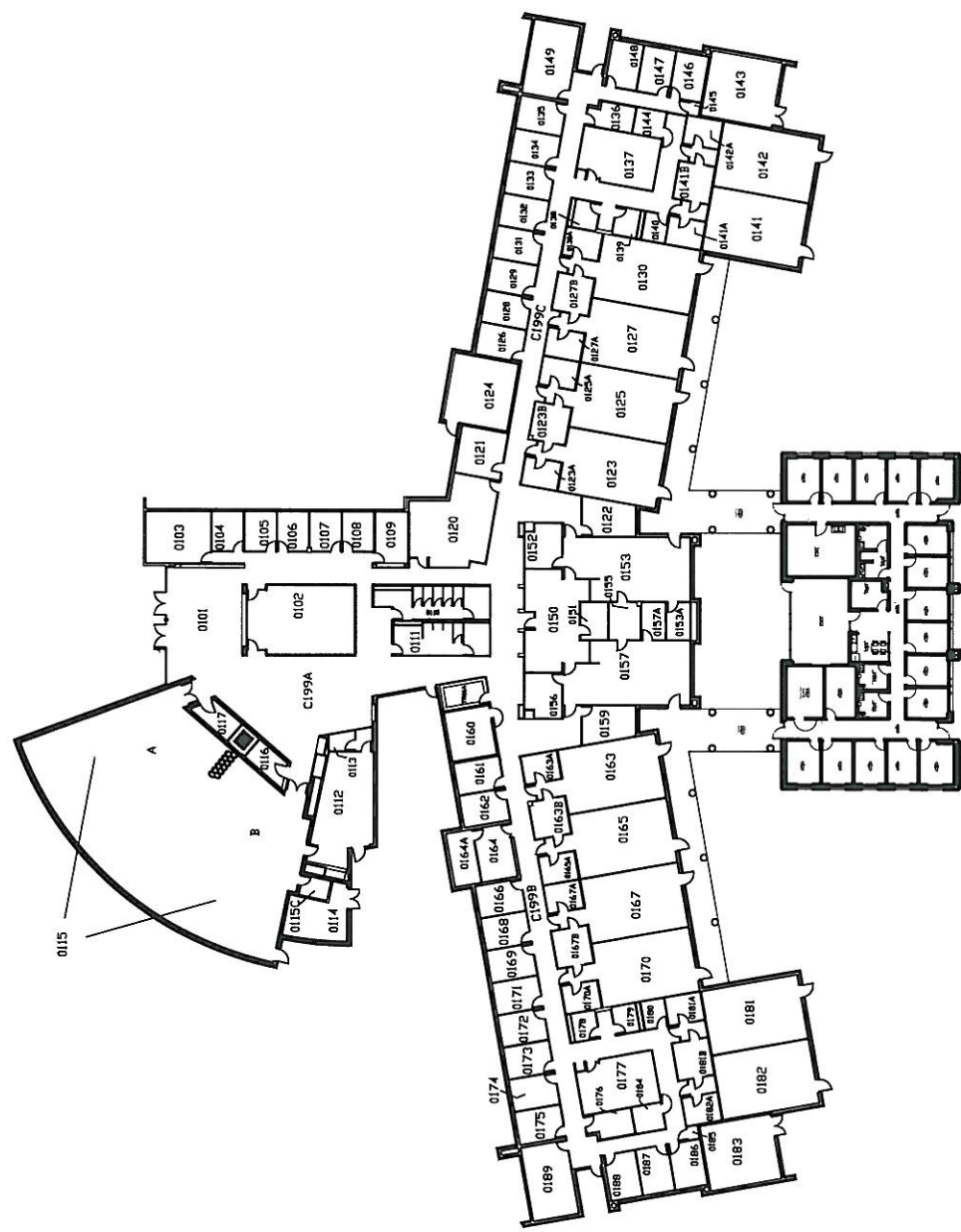
Email address of out-of-state Bidder's attorney: _____

Attorney's states of bar admission: _____

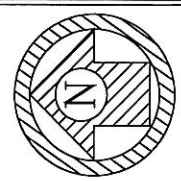
ATTACHMENT A



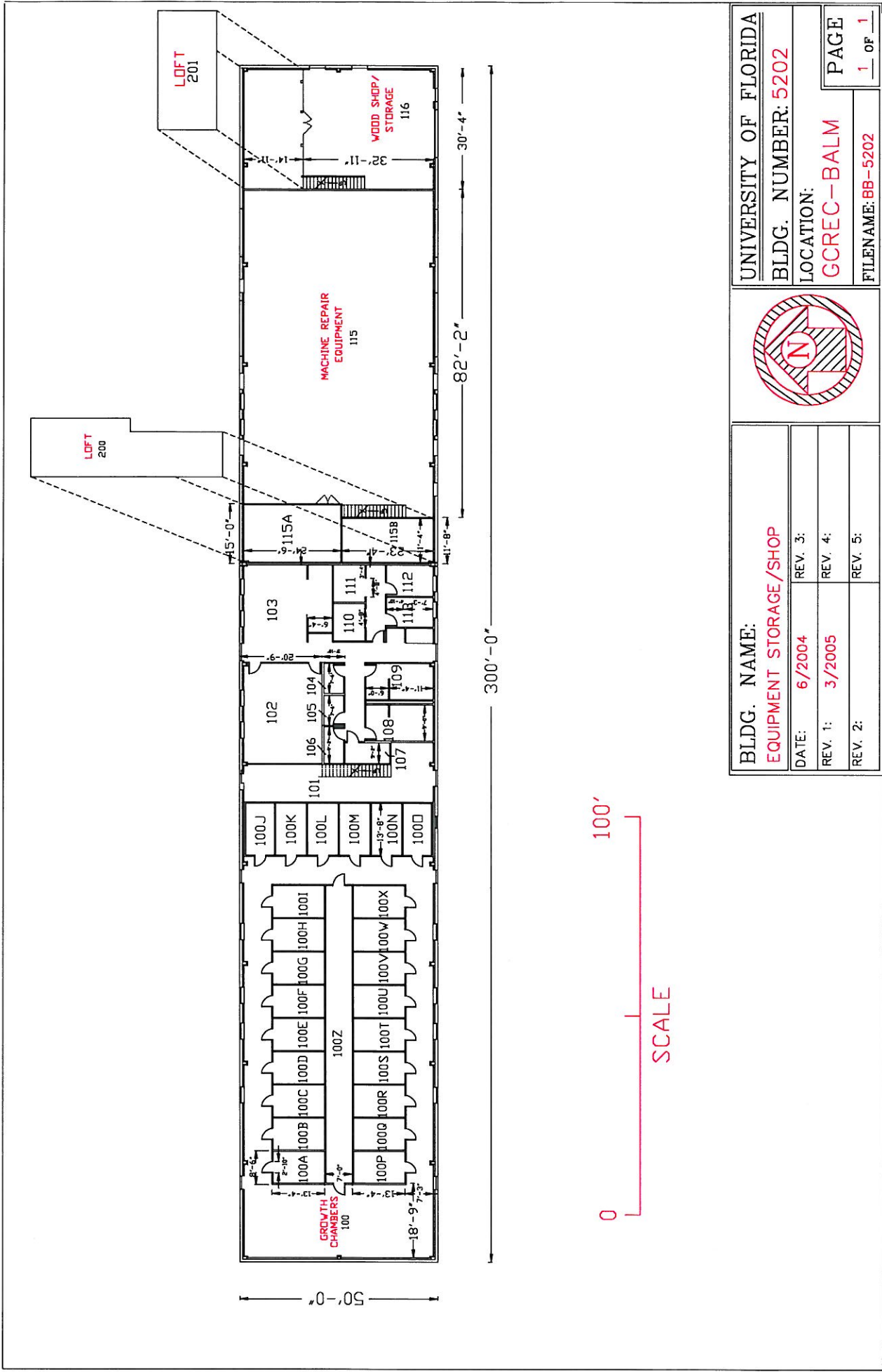
UNIVERSITY OF FLORIDA	
LOCATION: 14625 COUNTY RD 672	
WMA/UNA, FL 33598	
FILENAME:	REV. 11/2010
DATE:	



UNIVERSITY OF FLORIDA
BLDG. NUMBER: 5201
LOCATION: GCREC-BALM
PAGE 1 OF 1
FILENAME:



BLDG. NAME: OFFICE/LABORATORY	
DATE: 1/2005	REV. 3:
REV. 1: 1/2016	REV. 4:
REV. 2:	REV. 5:



UNIVERSITY OF FLORIDA
BLDG. NUMBER: 5202
LOCATION: GCREC-BALM
PAGE 1 OF 1
FILENAME: BB-5202



BLDG. NAME: EQUIPMENT STORAGE/SHOP	
DATE: 6/2004	REV. 3:
REV. 1: 3/2005	REV. 4:
REV. 2:	REV. 5:

14625 CIE 673, Building 5237
Winnetka, IL 33568

OWNER

University of Food and Agricultural
Sciences Planning & Operations
1500 Oak Park Drive, Bldg. 114
Winnetka, IL 307-14000
307-241-8118

ARCHITECT

BFRANKSTUDIO, LLC
4830 West Cady Drive
Chicago, IL 60641
312.758.1777
www.bfrankstudio.com

CONSTRUCTION MANAGER

W. J. McHugh Construction, Inc.
275 NW 47th Drive, Suite A
Miami, FL 33149
305.761.8177
www.wjmcHugh.com

MECHANICAL ENGINEER

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305.761.8177
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ELECTRICAL ENGINEER

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ARCHITECT

BFRANKSTUDIO, LLC
4830 West Cady Drive
Chicago, IL 60641
312.758.1777
www.bfrankstudio.com

DATE

December 5, 2017

SHEET

11/13/2017

Project No: IFAS 1606J01-F0017

Date: December 5, 2017

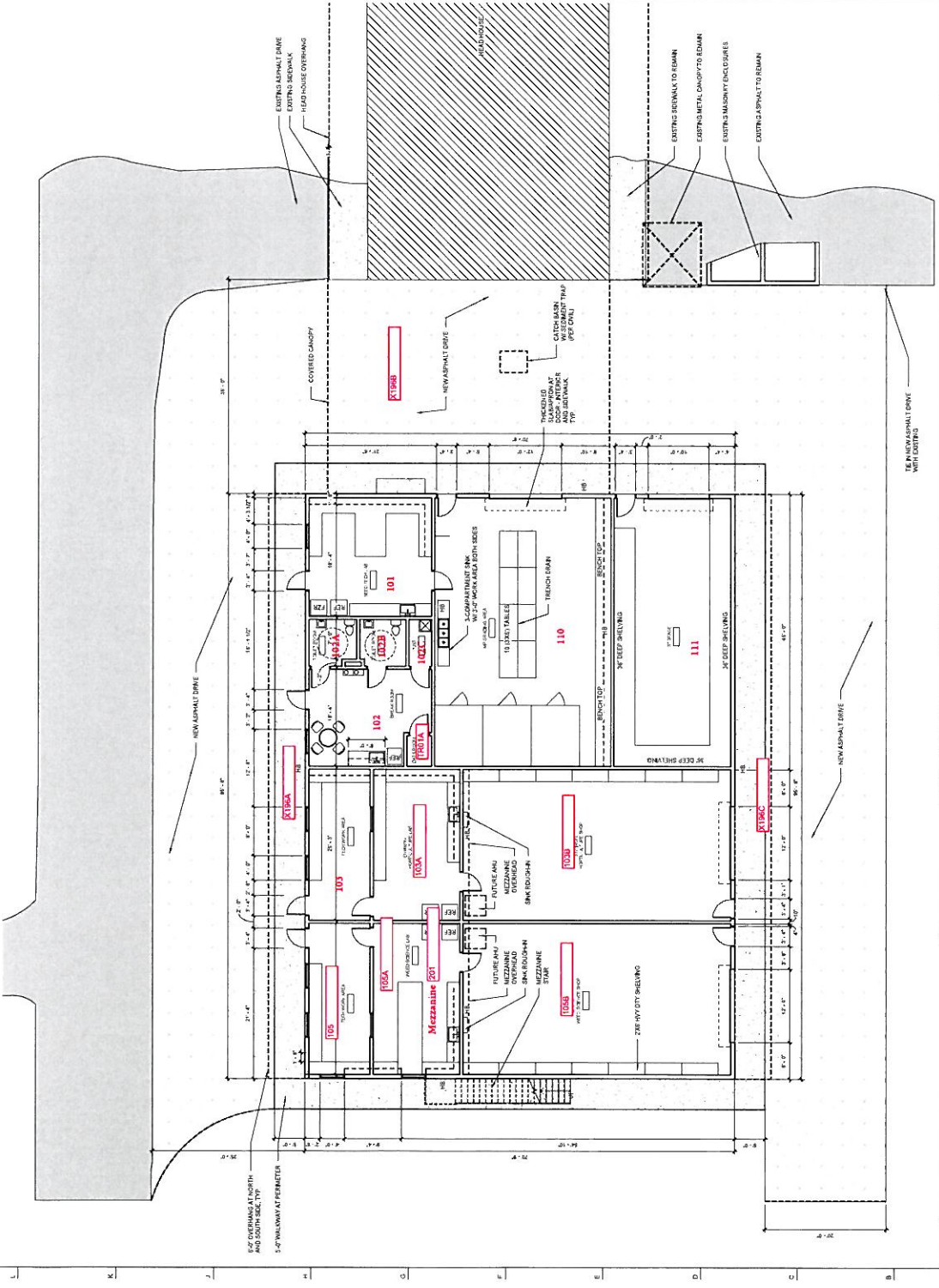
Sheet: 11/13/2017

Drawing Title: Floor Plan - Level 1

A101

STEUTILITIES PACKAGE

- General Notes**
1. CONTRACTOR TO VERIFY ALL MEASUREMENTS AND DIMENSIONS OF EXISTING CONDITIONS PRIOR TO CONSTRUCTION. ARCHITECT'S DIMENSIONS SHALL PREVAIL OVER ANY DIMENSIONS SHOWN ON EXISTING PLANS.
 2. DIMENSIONS ARE TO FACE UNLESS NOTED OTHERWISE.
 3. COORDINATE WITH MAIN FLOOR PLAN.



Floor Plan		A3
15' = 1'-0"	1/1/2017	

BALM CDVI DEVICES

- 1) 1 Front Gate keypad with reader.
- 2) 26 interior office doors and 30 lab doors in Bldg. 5101.

BUSINESS OFFICES:

7 Rooms; 0103,0104,0105,0106,0107,0108& 0109.

WEST WING:

10 Rooms; 0160,0162,0166,0168,0169,0171,0172,
0173,0174 & 0175.

EAST WING:

9 Rooms; 0121,0126,0128,0129,0131,0132,0133,
0134 & 0135.

Readers on the front and back doors of the labs.

EAST LABS:

12 LABS; 0123,0125,0126,0130,0141 & 0142.

MIDDLE LABS:

0150,0153 & 0157.

WEST LABS:

0163,0165,0167,0170,0181 & 0182.

BALM CDVI DEVICES

3) 1 interior door and 3 exterior doors in Bldg. 5102.

2 doors in the break room and 2 doors in the workout room.
Room's 0127 & 0128.

4) 8 front and back doors on Bldg. 5237 Field Lab.

Rooms: 0101,0102,0103,0105,0107,103B,105B & 107B.

5) Each building has its own IT room and all cabling needs
to be run back to the individual IT rooms.

ATTACHMENT C

ENGINEERING AND ARCHITECTURAL SPECIFICATIONS

COMPLETE SOLUTION FOR
WEB ENABLED PHYSICAL ACCESS CONTROL

FEBRUARY 2020



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1 INTRODUCTION

The purpose of this document is to outline the specifications, architecture and submission criteria for a Physical Access Control System (PACS), communicating via Broadband Ethernet (BBE) using technologies such as private corporate networks.

SYSTEM DESCRIPTION

ATRIUM, the Ethernet communicating Integrated Access Control and Security System's primary function, is to allow businesses to regroup all of their security system installations into 1 (one) system, no matter what the distance is between each one. Secondly, ATRIUM will allow for management of all the systems from 1 (one) single point. Thanks to ATRIUM's innovative architecture, the cost, time and installation complexities normally related to such a system, are practically eliminated. In addition, the system's architecture reduces initial configuration time and allows for quick and effective future servicing saving time and money.

ATRIUM, the Integrated Access Control and Security System, can be installed in each of the locations necessary which will all be regrouped and relayed to 1 (one) secure central database. Various workstations can be managed and distributed in different buildings (locations) in order to administer and manage various users as well as other parameters in the ATRIUM system.

ATRIUM is comprised of an innovative and distributed architecture which spreads the work load and provides superior performance and response time. This information is exchanged among all modules via TCP/IP. All communications are protected using advanced proprietary protocols and Encryption Algorithms.

The ATRIUM system also features electronically protected and supervised 12V power outputs commonly used to control standard door locking devices such as direct current (DC) door strikes and/or magnetic locks.



KRYPTO

HIGH SECURITY SOLUTION

Say **"NO"** to card cloning with ATRIUM's unique KRYPTO high security solution.

Eliminate complex and arduous programming using the ATRIUM A22K controller, CDVI Mifare DesFire EV2 credentials and CDVI K1 readers. Systemwide AES encryption stops card cloning and provides end-to-end security.

Whether you remote in from the internet or connect on your network you can be sure KRYPTO has you covered.



ATRIUM Network Connectivity

IP CONNECTIVITY

Out of the box the A22K is ready for IP connectivity, fifty (50) A22K per account.

If you have more than one A22K controller per account, one must be set as the **"Master"** controller to manage the others. These forty (49) others are defined as **"Sub-Controllers"**.

"MASTER" CONTROLLER

The **"Master"** controller manages up to forty nine (49) **"Sub-Controllers"**.
(100 doors fully IP)

AES256
ENCRIPTION

IP Network
Maximum 300 ft (100 m)

LAN or WAN

"SUB-CONTROLLERS"

Up to forty nine (49) A22K defined as **"Sub-Controllers"**.

ATRIUM
ACCESS CONTROL

KRYPTO
HIGH SECURITY SOLUTION



Communication between the **"Master"** controller and its **"Sub-Controllers"** is done by TCP / IP **ONLY**.

RS485 CONNECTIVITY

An A22K can be set as an **"Expander"** (see below). Up to four (4) can be connected to the RS485 network (orange connector) of the **"Master"** or **"Sub-Controllers"**.

A22K **"Master"** or **"Sub-Controllers"**
RS485 port (orange connector).

Use twisted pair wiring for RS485 connection
(1 pair for ground and 1 pair for A+ B-)

Maximum 4000 ft
(1220 m)

How to set an A22K as an "Expander"

On power OFF, move the **"Module Type"** jumper setting to the two pins closest to **"EX"**.



DO NOT use IP connection when A22K is set as **"Expander"**.

A22K set as **"Expander"**

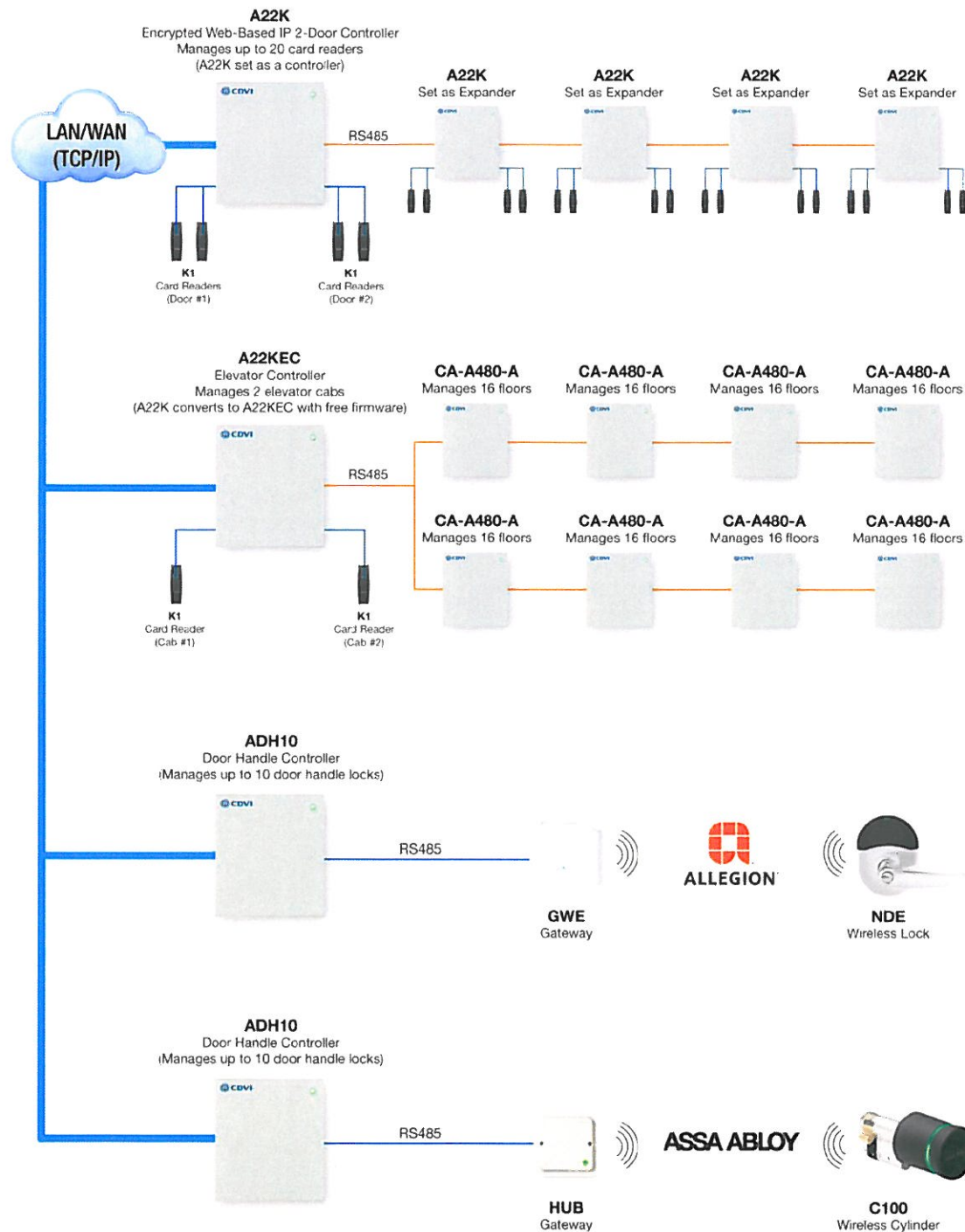
A22K set as **"Expander"**

A22K set as **"Expander"**

A22K set as **"Expander"**

The ATRIUM system supports any combination of fifty A22K, A22KEC and/or ADH10 controllers for a maximum of 500 doors.

Below, a reference diagram of ATRIUM - the Integrated Access Control and Security System:



RELEVANT DOCUMENTATION

These documents contain certain portions of the ATRIUM product documents listed below, which may be consulted for more details:

- A22K 2-Door Controller Manual
- A22KPOE+ 2-Door Controller Manual
- A22KEC 256-Floor Elevator Controller Manual
- AIOM 10 Input/Output Module Manual
- ADH10 10-Door Handle Controller Manual
- A10 Software Manual

2 SYSTEM ARCHITECTURE

The following sections provide an overview of ATRIUM's specifications, hardware modules, features and functionalities.

DATABASE SERVER

The central database is conveniently located on a 2-door controller accessible via web-enabled devices such as smart phones, tablets and commonly available computers via their web browsers allowing day-to-day management.

PC (personal computer) software is also used to access the central database and incorporates advanced configuration menus and features.

WEB SERVER

1. An embedded web server is included in each ATRIUM's controller.
2. The embedded web server allows access by various web browsers.
3. ATRIUM has an embedded SDK that exhibits ALL ATRIUM commands.

WEB NAVIGATION ACCESS

1. The ATRIUM Controller (A22K) is accessible by any standard web browser on multiple platforms including, but not limited to, Microsoft Windows®, MacIntosh MAC OS, iPhone iOS, Android and Linux.
2. The ATRIUM Controller (A22K) supports connectivity with a Microsoft Windows® personal computer (PC) using ATRIUM's free software.
3. The basic configuration and consulting functions are offered by using any standard web browser.
4. ATRIUM's PC software allows complete and advanced system configuration.
5. The ATRIUM Controller (A22K) supports up to 10 simultaneous web browser connections and one software connection.

AUTHENTICATION & ENCRYPTION

1. All commands between the web browser and the ATRIUM controller are protected, thus encrypted by various protocols including SSL/TLS, RC4 and MD5.
2. All communications between the ATRIUM Server Software and the ATRIUM system are protected, thus encrypted by AES protocol with a 256-bit key.
3. All network communication between the ATRIUM controller and its peripherals are protected by a proprietary protocol. All network communication between the system and all peripheral ATRIUM will be protected by a proprietary protocol (AES256 encryption) for rapid high performance.
4. All communication between the ATRIUM controller and the web browser must first be authenticated and authorized.
5. All communication between the ATRIUM controller and server software must first be authenticated and authorized.
6. All communication between the ATRIUM controller and its peripherals must first be authenticated and authorized.

NETWORK ACCESS VIA BROADBAND

1. The ATRIUM controller shall communicate via internet or corporate ETHERNET network.
2. The ATRIUM controller must be connected directly to the main control panel via ETHERNET.
3. The main control panel is equipped with an RJ45 connector to allow IP Connectivity.

CENTRAL DATA STORAGE UNITS

1. All client data and all configuration settings of control panels and peripherals will be saved in a centralized database and will be distributed to each of the control panels accordingly if needed during the synchronization of the system upon connection.
2. ATRIUM's PC software will provide a mechanism for local or remote backup to preserve all information in the system. The backup data shall be stored on the PC hard drive or corporate network storage device.

3 SOFTWARE / ATRIUM SERVER

Here is a list of features and a more detailed description of certain key functions.

1. Provides central backup of the ATRIUM system information.
2. Allows for database restore as well as data archiving capabilities.
3. History of all time-stamped system events.
4. Allows for multiple managers to simultaneously manage the system (web server only).
5. Allows the user to perform system configuration to ensure the security of installations and sensitive information.
6. Allows the user to customize schedules in order to manage the installation and the testing of devices.
7. Provides robust communication so that exchanges between all system components are effective, reliable and secure.
8. Allows administrators to define and manage their installations and their various access points.
9. Offers different types of users giving them different access rights within the web server and PC software.
10. Allows supervision of the actions taken by the various users across the whole system.
11. Active management of all the pieces of ID associated with an account, a user or a building.
12. Detailed history of all system activities including attempts to access the system.
13. Provision of a protection system that allows administrators to deny rights of access to certain users.
14. Configuration of email transmission initiated by the occurrence of certain events or situations.
15. Ability to create detailed reports of certain activities such as requests for access denied.
16. Provides the means to integrate IP-based cameras for real-time viewing using a web browser.
17. Integrates with any intrusion detection alarm system control panel via key switch arming input.

CUSTOMIZED SCHEDULES

ATRIUM offers 250 schedules each supporting 100 programmable time periods, modifiable and useable for the automatic unlocking of doors, user access rights, macro commands and sending of emails.

ATRIUM allows for the definition of holiday periods, to override normal time periods used in a schedule. The transactions related to timetables and holiday periods include:

- Creating schedules with programmable periods and repetitiveness
- Repetitive schedules allow for a programmable cycle length from 1 to 100 days before repeating the cycle
- The assignment of these schedules for access levels, schedules for unlocking doors, sending emails and the activation of macro commands
- The addition or withdrawal of schedules to/from an access level
- The addition, deletion and modification of one or more periods of time in a schedule
- The combination of days or holiday periods to one or more schedules
- The ability to configure the start time and date of a holiday period and its duration.
- The addition, deletion and modification of one or more holiday periods
- Holiday periods are defined in duration by the number of days, hours, minutes and seconds
- Support for rule-based (day of the week) and fixed date holidays
- Support for automatic annual holiday recurrence
- Holidays periods are removed from (e.g., statutory holidays) or added to (e.g., an inventory day) a schedule

ACCOUNT MANAGEMENT

ATRIUM will allow account administrators the creation and management of accounts including all their associated equipment, such as control panels, doors, areas and peripherals. The system will allow the following :

- The definition and management of control panel accounts
- The configuration of doors to an account and their associations to control panels
- The activation and deactivation of the supervision of doors left open and the definition of the acceptable length of opening
- Define and edit schedules
- Management of request-to-exit detectors
- The activation and deactivation of individuals to some or all of the access points
- The definition and monitoring of alarm conditions and the definition of possible alarm conditions
- The configuration peripherals to a site and the association of these devices to control panels
- The configuration of the behavior of a device
- Tracking events in history
- The removal of devices
- The definition and the modification of unlocking and/or schedules for a door
- The addition of an area
- The withdrawal of an area
- The definition of an area or an area delimited by doors
- Associating areas to both sides of doors

SOFTWARE USER RIGHTS

ATRIUM will provide 4 levels of software user rights to the administrator to create user subordinates (operators). Each of these users (operators) will have a unique ID and password indicating to ATRIUM everyone's rights for consultation, editing and management of information.

Here are the 4-software user rights levels:

SOFTWARE USER RIGHTS

User Rights	Can do firmware update	Can configure the system	Can add, delete or modify users, cards and PIN	View only
1. Installer	✓	✓	✓	✓
2. Administrator		✓	✓	✓
3. Operator			✓	✓
4. View Only				✓

1. For each of the ATRIUM system's operator rights, the following information must be available:

- Given name
- Family name
- Email address
- Telephone number
- Status
- Login ID
- Password
- Secret question and / or hint
- Secret answer

ADMINISTRATOR AND OPERATOR TRACEABILITY

For security reasons, the ATRIUM system must first validate access to an administrator or operator and preserve the history of all the actions taken. In the event of this occurrence, the software will

- Ask the user to provide a login and a password to gain access to an account, its control panels and the associated database
- Support multiple administrators and operators for each account, each with a login ID and password
- Maintain and view a history of all actions taken by administrators and operators of the software to obtain a permanent trace of such actions.

CREDENTIAL MANAGEMENT

The ATRIUM software and web server will support the management of information such as access cards and PINs (Personal Identification Numbers) associated with a user account and their owners.

Possible software operations include:

- The validation of the uniqueness, format and values of a card number
- The ability to combine multiple pieces of user identities to one user
- The ability to record unique up to 8-digit PIN numbers entered by the user
- The provision of a text field allowing the entry of additional information for a user
- Automatic propagation of identities throughout the ATRIUM system to affected devices without any intervention

USER & ACCESS LEVEL MANAGEMENT

The ATRIUM software provides the ability to configure access rights for users having one or more accounts and to allow the assignment of these users to a group of users determining their rights. The possible operations include:

- The creation of an access level
- The modification of an access level
- The removal of an access level
- The creation of a new user
- The assignment of a user code (up to 8-digit PIN)
- The removal of a user code (PIN)
- The modification of a user code (PIN)
- The addition of a card to a user
- The removal of a card from a user
- A card can only be assigned to one user at a time
- Cards can be withdrawn from a user and issued to another new or existing user
- One user can be issued multiple cards
- Setting an activation date of a user
- Setting a termination date of a user
- The modification of a termination date of a user
- The removal of a termination date of a user
- The assignment of a user to one or multiple access levels
- The removal of a user from one or multiple access levels
- The removal of a user
- The assignment of a schedule to access one or more areas to a user
- The assignment of multiple schedules to access different areas to a user
- An access level is issued to a user, not to a card
- Any card(s) is denied access to all doors at all times unless it has been issued to a user with a valid access level

EVENT HISTORY MANAGEMENT

The ATRIUM software will record all attempts to access various sites associated with an account and maintain this information in a history log accessible by administrators of the account.

Event history recording includes :

- Displaying all events stored in history
- Displaying all events stored in history sorted by user
- Displaying all events stored in history sorted by door
- Displaying all events stored in history sorted by peripheral
- Displaying all events stored in history limiting the number of results
- The possibility to conduct a search of events based on certain criteria such as Users, Peripherals, Doors or Account within a specified time period or for a specific date

4 CONTROL PANEL

The following sections describe the characteristics of the control panel.

SUPPORTED READERS

The control panel support K1 Mifare DESFire proximity card reader and a various card reader technologies including WIEGAND standard and ABA TRACK 2:

- Proximity card reader
- Biometric reader
- WIEGAND reader
- WIEGAND keypad
- ABA TRACK 2 magnetic card reader

POWER REQUIREMENTS

1. The control panel must be powered by a standard AC outlet 120Vac or 240Vac and 50 or 60 Hz
2. The control panel shall be equipped with a backup battery 12Vdc
3. The panel will provide the following status display:
 - The control panel will indicate the source of its power; primary or backup
 - The control panel will transmit a signal to the software indicating the transfer of power from the primary source to the backup battery and vice versa
4. The control panel will tell the software if it's powering up, starting and / or restarting

CONTROL CIRCUITS

Out of the box, the A22K and ADH10 are ready for IP connectivity, maximum fifty (50) of any combination per account. If you have more than one A22K/ADH10 controller per account, one must be set as the **“Master”** controller to manage the others. These forty-nine (49) others are defined as **“Sub-Controllers”**. Also, an A22K can be set as an **“Expander”** by changing its “Module Type” jumper setting (hardware). Up to four (4) can be connected to the RS485 network (orange connector) of the **“Master”** or **“Sub-Controllers”**. The A22K can be converted to an elevator controller by changing its firmware (downloadable from CDVI website for **FREE**). The ATRIUM ADH10 is an integration controller that can manage up to ten electronically locking door handles from ASSA ABLOY or ALEGION (wired or wireless).

IP connectivity:

- A22K 2-Door / 4-Reader Controller (default setting)
- A22KEC Elevator Controller (by changing A22K firmware for FREE)
- ADH10 10-door handle controller (ASSA ABLOY or ALLEGION)

RS485 Connectivity:

- A22K (by changing the module type jumper setting)
(maximum 4 per A22K “Master” or “Sub-Controllers”)
- AIOM Expansion module 10 inputs / 10 outputs (for a maximum of 1000 zones)

These controllers and modules include the following with their maximum amount:

1. Each A22K (out of the box) will provide the following input and outputs:

- ETHERNET 10/100 Communication port (1)
- ATRIUM RS485 Communication port (3)
- Reader interfaces (2)
- Assignable zone input (6), using zone doubling (12)
- Entry tamper detection (1)
- Smart supply output (fuseless) (2)
- Door lock output (2)
- Auxiliary relay (2)
- Low power output (12)
- Battery backup input (1)

2. Each A22K, set as **“Expander”** (by changing its module jumper setting), will provide the following inputs and outputs:

- ATRIUM RS485 Communication port (3)
- Reader interfaces (4)
- Assignable zone input (6), using zone doubling (12)
- Entry tamper detection (1)
- Smart supply output (fuseless) (2)
- Door lock output (2)
- Auxiliary relay (2)
- Low power output (12)
- Battery backup input (1)

3. Each A22K, set as **“Elevator Controller”** (by changing the firmware), will provide the following inputs and outputs:

- ETHERNET 10/100 Communication port (1)
- ATRIUM RS485 Communication port (3)
- Reader interfaces (2)
- Assignable zone input (6), using zone doubling (12)
- Entry tamper detection (1)
- Smart supply output (fuseless) (2)
- Door lock output (2)
- Auxiliary relay (2)
- Low power output (12)
- Battery backup input (1)

4. Each ADH10 Schlage door handle controller will provide the following input and outputs:

- ATRIUM RS485 Communication port (1)
- ETHERNET 10/100 Communication port (1)
- Entry tamper detection (1)
- Battery backup input (1)

5. Each AIOM input and output expansion module offers the following inputs and outputs:

- ATRIUM RS485 (1) Communication port
- Assignable zone input (10)
- Assignable zone output (10)
- Tamper detection input (1)
- Programmable 12VDC 100 mA output (10)

ACCESS CONTROL FUNCTIONS

Each control panel:

- Supports the request to exit connection and activate (if necessary) the lock output for the opening of the associated door without generating a door alarm condition
- Supports the connection of an auxiliary input allowing the activation an associated relay
- Offers door relay activation and deactivation
- Notifies when there is a prolonged opening of a door or door left open having a programmable timer
- Notifies the ATRIUM system of a door opening by using a contact connected to an input system
- Notifies the ATRIUM system of a door closing by using a contact connected to an input system
- Advises the system of an automatic unlocking of a door
- Provides a local storage unit to preserve an event history
- Offers configuration for a door unlocking schedule
- Offers configuration of holidays
- Notifies all changes of the control panel and / or its peripherals
- Notifies the system of all unauthorized openings of doors

5 ATRIUM PRODUCT SPECIFICATIONS

GENERAL FEATURES

The ATRIUM system was conceived for multiple door and area applications. The system offers as a base, 2 doors, expandable up to a network of 500 doors and areas, which within themselves can be interlinked.

Here are some additional features of the ATRIUM system:

- Management and centralized control of all access and security privileges via any computer or device with INTERNET connectivity with SSL/TLS encryption
- Compatible with virtually all WIEGAND readers
- Memory unit for the automatic recording of events
- Real time updates of all transactions, modifications, configurations
- Up to 10,000 users per account
- 25,000 events per control panel
- Multilingual software
- Automatic detection and dynamic assignment of inputs / outputs of new modules and devices detected on a RS485 network of a controller

HARDWARE COMPONENTS

The following components are included with ATRIUM A22K controllers:

- Universal plug-in power supply 120/240 Vca - 50/60Hz for each control panel and door expander
- 1 Master and 1 Programming card
- User's manual
- Web access quick guide
- Metal cabinet (box)
- Bag :
 - Resistors
 - Supports for printed circuit boards
 - Diode protection systems for door locks
 - Connection cables for backup battery

RECOMMENDED READERS

ATRIUM supports but is not limited to the following readers and keypads:

- K1 – KRYPTO High Security RS485 Proximity Card Reader (Mifare Classic, DESFire EV1/EV2)
- NANOP – Mini Proximity Reader (CDVI encoding)
- STARP – Multi Technology narrow Proximity Reader
- SOLARP – Multi Technology rectangular Proximity Reader
- KCPROXWLC – Multi Technology keypad and Proximity Reader
- DGLP WLC26 – Multi Technology rectangular Proximity Reader
- DGLP FN WLC26 – Multi Technology narrow Proximity Reader
- DGLI WLC26 – Multi Technology stainless, rectangular Proximity Reader
- DGLI F FLC26 – Multi Technology stainless, narrow Proximity Reader
- DGLP60WLC – Multi Technology long-range Proximity Reader
- DGID/W/US – Digital imprint Biometric Reader
- CABAPROX/W – Mifare® Biometric and Proximity Readers
- Additional readers are also supported, on a customized base

ONLINE ACCOUNT MANAGEMENT

A wide range of functions are available to assist account administrators in the management of their buildings such as:

- Web interface with history of system events
- Multitudes of account managers each with individual passwords
- Time-stamped log of system activities
- Customization of users and areas
- Supports card and PIN confirmation
- Supports card or PIN

SERVICE & SUPPORT

To help visualize, understand and enjoy all the advantages of the ATRIUM system, CDVI Americas offer support in a variety of formats:

- Documentation (also available online)
- Online video tutorials
- Quick Start Guide
- User's Manual
- Installation Manual
- Connection (wiring) diagram
- Technical Support: 8:00a.m. to 8:00p.m. (EST)
- Toll-free support line
- Email support
- Online support via SKYPE
- Five-year system warranty

6 TECHNICAL SPECIFICATIONS

Number of readers:	Up to 1000 per account (2 per door)
RS485 compatible readers:	K1 Mifare DESFire EV1/EV2 (2 per door)
WIEGAND compatible readers:	26-bit, 30-bit, 44-bit and other
ABA TRACK2 compatible readers:	Yes
Compatible keypads:	4-bit, 8-bit
Compatible biometric readers:	BIOSYS, Bioscrypt, L1-Identity 26-bit, 30-bit and 44-bit
Data archiving:	Yes
Input configurations:	Open / Closed / Sabotage / End of line / Doubled
Output relays:	Common, Normally Open, Normally Closed
Required power:	120 Vac / 220 Vac / 50/60 Hz
Backup battery:	1 battery 12 V DC of 4.5 Ah to 28 Ah
Cabinet / Box:	Metal 1.2 mm, Anti-sabotage
ATRIUM network reach RS485:	4000 ft (1220 m) without the need for LDF BIAS resistors
ETHERNET network reach:	Unlimited by router usage / switch
Temperature:	-20°C to +70°C (-4°F to +158°F)
Humidity:	0% to 85% (without condensation)
Memory capacity:	10,000 users
Warranty:	Five-year warranty

Note: The properties described in this document represent the most accurate information at the time of this writing. The data here within, which may change without notice, are supplied as a technical guideline only. The specifications can be confirmed with your local CDVI representative.

This guide of specifications is provided as general information about the ATRIUM system. As manufacturers of access systems, CDVI Americas Limited assumes no liability for errors in the installation defect. The architect, contractor and agent of the owner of the building are required to verify all dimensions, details and design compatibility of conception.

Note : The data here within may change without notice. CDVI Americas Limited is not responsible for errors that may/have occure(d).

Discover the Difference

HES® 1500 & 1600 Series Electric Strikes

The most advanced, modular electric strikes that work with every brand of cylindrical or mortise locks designed to work with a 4-7/8" strike plate.

Experience a safer
and more open world



Dynamic | Flexible | Modular

HES 1500 & 1600 Series Electric Strikes



Specifications

- ANSI/BHMA A156.31, Grade 1
- UL 1034 burglary-resistant listed and suitable for outdoor use
- UL 294 listed
- RoHS compliant
- Holding force:
 - Static strength 1,500 lbs
- UL 10C fire-rated, 3 hour single door (fail secure only)
- UL 10C fire-rated, 1-1/2 hour double door (fail secure only)
- CAN/ULC-S104 fire door conformant
- NFPA-252 fire door compliant
- ASTM-E152 fire door compliant
- California Fire Marshal listed
- ANSI/SDI A250.13 windstorm resistant
- Florida Building Code approved TAS 201, 202, 203
- ANSI-ASTM E330
- 1500 – Strike body depth 1-3/8"
- 1600 – Strike body depth 1-5/8"
- Sustainability documentation

Electrical (DC Continuous Duty)

- Dual voltage 12/24 VDC/VAC
- 240 mA at 12 VDC/120 mA at 24 VDC
- PoE friendly

Features

- Available in 7 finishes
- Field adjustable integrated shim
- Interchangeable faceplates and accessories
- Fully finished faceplate, keeper, case and trim
- Trim enhancer included
- ElectroLynx™ plug-in connectors
- Non-handed
- Internally mounted solenoid
- Tamper resistant
- Stainless steel construction
- SecuriCare ten-year, no fault, no questions asked warranty

Options

- **LM** Lock monitor
- **DLM** Dual lock monitors
- **LMS*** Lock monitor and strike monitor
- **DLMS*** Dual lock monitors and strike monitor
- **OPT-1LM** Single lock monitor
- **OPT-1DLM** Dual lock monitors
- **1500-104-XXX** Lip extension trim adapter
- **1500-106-XXX** 4500 adapter and trim enhancer kit (finish to match)
- **1600-104-XXX** Lip extension trim adapter
- **1600-106-XXX** 1006 adapter and trim enhancer kit (finish to match)
- **HES-CUT-MTK** Metal Template Kit

*Factory installed option



Grade 1



SecuriCare
Warranty



Mortise Locks
with Deadbolt



Mortise Locks
without
Deadbolt



Cylindrical
Locksets



Rim Exit
Devices



Field Selectable
(Fail secure
/ Fail safe)



Dual Voltage
12/24



PoE
Friendly



Fire Rated



Windstorm
Resistant








Outdoor
Rated



Burglary
Rated

Comparison Chart

Manufacturer	WITH DEADBOLT			WITHOUT DEADBOLT		
	HES HES 1600	HES HES 1006	Competitor Competitor #1	HES HES 1500	HES 4500	Competitor Competitor #2
Model						
Certifications & Listings						
UL 10C, 3 hour single door fire-rated	✓	✓	✓	✓	✓	✓
UL 10C, 1-1/2 hour doubled door fire-rated	✓	✓		✓		
CAN4-S104 (ULC-S104) fire door conformant	✓	✓	✓	✓	✓	✓
UL 1034 burglary-resistant listed	✓	✓	✓	✓	✓	✓
UL 1034 burglary-resistant listed for outdoor use	✓	✓		✓		
UL 294 (6th edition) listed	✓	✓		✓	✓	
Environmental Product Declaration	Iteded	✓		✓	Iteded	
ANSI/BHMA A156.31, Grade 1	✓	✓	✓	✓	✓	✓
NFPA-252 fire door conformant	✓	✓	✓	✓	✓	✓
ASTM-E152 fire door conformant	✓	✓	✓	✓	✓	✓
ANSI/SDI 250.13 windstorm resistant	✓	✓		✓		
ANSI-ASTM E330	✓	✓		✓		
Florida Building Code approved TAS 201, 202, 203	✓	✓		✓		
California Fire Marshal listed	✓			✓	✓	
RoHS compliant	✓	✓	?	✓	✓	?
Patented design	Applied	✓	Applied	Applied	✓	Applied
Standard Features						
Accommodates cylindrical and mortise latchbolts	✓	✓	✓	✓	✓	✓
Accommodates all brands of mortise locks	✓	✓	✓	✓		✓
Accommodates 1" deadbolts	✓	✓	✓			
Release and recapture 1" deadbolt		✓				
Installs in fire listed 2" frame with 1/2" drywall				✓	✓	✓
Strike body depth	1-5/8"	1-11/16"	1-5/8"	1-3/8"	1-3/8"	1-3/8"
Strike cavity height	3-1/4"	3-1/4"	3-1/4"	3-1/4"	2-11/16"	3-1/4"
Tamper resistant, stainless steel construction	✓	✓	✓	✓	✓	✓
Static strength (lbs)	1500	3070	1500	1500	3000	3250 Factory Test
Dynamic strength (ft-lbs)	70	350	70	70	100	-
Endurance (cycles)	1M	1M	2M Factory Test	1M	1M	1M
Full finished face plate, keeper, case and trim	✓			✓		✓
Field selectable fail safe/fail secure	✓		✓	✓	✓	
Non-handed	✓	✓	✓	✓	✓	✓
Horizontal adjustment	Integrated	Shims	Shims	Integrated	Shims	Shims
Plug-in connector	✓	✓	✓	✓	✓	✓
Trim enhancer included	✓	✓	✓	✓	✓	✓
Lip extension (sizes)	1/2"	1+"		1/2"		1/4"
Lock monitor	Field Install*	✓	Field Install	Field Install*	✓	✓
Lock door position monitor	Factory Install			Factory Install*		
Strike locked monitor	✓	✓		✓	✓	
Metal template kit for easy installation	✓	✓		✓	✓	
Frame type	All	All	All	All	All	All
Available finishes	7	7	1	7	7	6
Standard Electrical						
Dual voltage 12 or 24	✓	✓	✓	✓	✓	✓
AC or DC	✓		✓	✓	✓	✓
Current at 12 volts	0.24 A	0.45 A	0.38 A	0.24 A	0.24 A	0.24 A
Current at 24 volts	0.12 A	0.25 A	0.19 A	0.12 A	0.12 A	0.11 A
Continuous duty	✓	✓	✓	✓	✓	✓
PoE friendly (under 0.25 amps)	✓		✓	✓	✓	✓

* Order non-standard option factory installed.

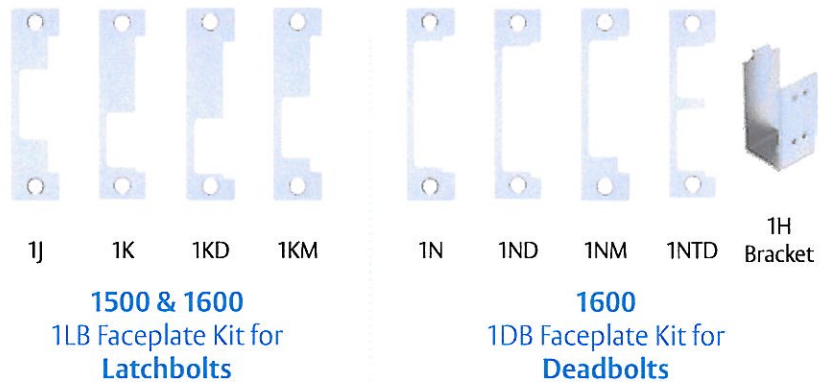
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ASSA ABLOY Opening Solutions leads the development within door openings and products for access solutions in homes, businesses and institutions. Our offering includes doors, frames, door and window hardware, locks, perimeter fencing, access control and service.

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