Scope of Work

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I. SCOPE OF SOLICITATION

Clemson is seeking to initiate a turnkey contract for Record-USA series 6100 Electromechanical Automatic Operator and ADA equipment to install on Campus. Over the past few years Clemson has installed several different brands and would like to be able to move forward through the use of a single contract provider to offer consistency on campus and off campus if needed. Clemson anticipates that an average of eight (8) will be installed annually. This will be a one year contract with the option to renew for an additional four years.

II. INSTRUCTIONS TO OFFERORS

Regardless of specific requirements below or in this document, Offerors are required to submit their proposal electronically through the Clemson University online bidding system. To do so you must login (registering first) at https://sciquest.ionwave.net/prod/default.aspx?company=clemson, and follow specific instructions for this solicitation. You should register several days in advance of the bid closing date so you can be approved and login in time to submit a response.

1. INFORMATION FOR OFFERORS TO SUBMIT - In addition to information requested elsewhere in this solicitation, Offerors should submit the following information for purposes of evaluation:

   A. Technical Proposal – Your technical proposal must contain ample information for Clemson to evaluate your ability to provide and perform the required work based on the needs stated within. No cost information should be included in your technical proposal. Be sure to include the following items at a minimum.

      a. Experience with previous contracts of similar size and scope

      b. Customer Service availability and warranty coverage

      c. Accessibility of parts for repair; including lead time

      d. Provide information describing the card access capabilities

e. Project Scope overview to include timelines and details on how you intend to complete

f. Product Data: Submit manufacturer's product data and standard details for automatic operators.

g. Shop Drawings: Submit shop drawings detailing exact dimensions for each door unit including door operator details, activation components, and electric hardware interface, wiring details and electrical requirements.

h. Anodized/Finish Samples upon request

B. Cost Proposal – Your cost proposal should include the total material price and total labor price as separate items for the installation of an existing single door opening to Clemson's satisfaction. Enter the total lump sum in the online bidding system where indicated. Power to the header of openings will be provided by Clemson so this should not be included in pricing.

- The cost of the proposed solutions must be submitted separately from the technical proposal.

-Cost must be all inclusive of all to include any travel, lodging, and other expenses. Cost must be entered in the online bidding system where required.

-Your separate cost proposal may go into more detail in terms of cost breakdown, options, etc…, but it must also clearly indicate the cost you enter into the online system. This is the cost that will be used for evaluation purposes and should reflect the cost for the base technical proposal you are offering in response to this solicitation. If there are conflicts in the costs you propose or Clemson can not clearly determine a total cost for your proposal, your response may be deemed non-responsive.

2. Please follow submittal requirements outlined in the Bid Attributes in the online bidding system.

3. The successful Offeror shall provide satisfactory evidence of all required insurance coverage and licenses PRIOR TO PERFORMANCE

4. Be sure to see the Event Activities in the online bidding system for details on deadlines for questions.

III. SCOPE OF WORK / SPECIFICATIONS

In the last 5 years, several different type of Automatic Door Openers and ADA equipment have been installed on Clemson Campus to assist and help faculty, students and visitors have direct and safe access into all buildings. The results of having 4 to 6 different brands of automatic door openers on campus makes it very challenging for facility personnel to identify what type of opener, recognize the problem, order parts and repair the door opener. Clemson is seeking a single source to supply one type of automatic door opener product that has a good maintenance record history, is cost effective, reliable, and compatible with University card reader access and inventory parts easily available when needed.

There are currently three main automatic door openers installed on Clemson's Campus. For informational purposes, they are Record 6100 Series Low Energy Automatic Swing Door Operator, LCN 2180 Series Automatic Door Opener and Stanley Magic-Force Swing Door system Opener. We are requesting Record-USA series 6100 Electromechanical Automatic Operator, although consideration will be given to products considered to be equal or better than specified.

EQUIPMENT
A. The swing door operator consists of operator housing, swing power operator, electronic control, wire harnesses and connecting hardware.

AUTOMATIC SWING DOOR OPERATOR
A. Operator**:** Electro-mechanical operator, powered by 24 volt, 1/8 hp motor.

B. Operator is to be non-handed to ensure maximum versatility in adapting to varying field conditions. Opening Force shall be adjustable by means of one screw, to compensate for different manual push forces required on varying door widths.

C. The non-handed operator is completely contained in extruded aluminum housing. All aluminum sections are 6063-T5 alloy while the structural walls of the base plate have a minimum thickness of 0.187" (3/16") while the access cover (non-structural) has a minimum wall thickness of 0.094" (3/32"). The operator housing width by height shall not exceed 4-1/2" x 5". Length of operator housing determined by site conditions and/or specifications herein. Motor/gear box shall be secured to operator housing via tamper proof extruded channel on the back member of operator housing.

D. Electronic Controls: Microprocessor controlled unit shall control the operation and switching of the swing power operator. The microprocessor control to provide low voltage power supply for all means of actuation. No external or auxiliary low voltage power source will be allowed. The controls include time delay for normal cycle.

E. Connecting Hardware: Surface mounted operator is connected to the door by means of a steel door arm. The door arm is secured to the top rail of the swing door using one piece threaded tubular inserts for aluminum doors, 1/4-20 binding head and post screws (sex bolts) for wood and hollow metal doors. The standard power arm and connecting arm shall accommodate up to 12" reveals and opening angles to 180 degrees. The arm will be equipped with a mechanical device which will in the case of extreme force, "sheer" thus protecting any internal mechanical components from damage, in the case of abuse.

F. Manual Use: The operator shall serve as a manual door closer in the direction of swing with or without electrical power.

G. External Control: A three position switch will be mounted in the end cover of the housing, along with a "fault warning" LED. The switch will be clearly marked, ON/OFF/HOLD OPEN. The LED will flash if the microprocessor detects a fault of any kind.

H. Power Open: When an opening signal is received by the control unit, the door shall be opened at the operator-adjusted opening speed. Before the door is fully open at back check, it slows automatically to low speed. The motor stops when the selected door opening angle has been reached. The open position is held by the motor. If the door is obstructed while opening, it will either stop or reverse (field selectable).

I. Field Adjustable Open Stop: The operator shall provide a field adjustable mechanical open stop to accommodate opening angles from 80 to 180 degrees.

J. Normal Close: Closing shall be provided by means of spring, adjustable tension will be by means of a single screw.

K. Power Close: Closing shall be provided by means of a spring and motor. When the hold open time has elapsed, the operator will close the door automatically, using spring force and motor. The door will slow to low speed at latch check before it reaches the fully closed position. The door is kept closed by spring power or extended closing force by the motor.

L. Power Assist: Operator can be adjusted to lower the open forces when used manually. Power Assist will be active only while pushing or pulling the door and will allow the door to close when an opening force is no longer applied to the door.

M. Electronic Dampening: Operator to include standard electric dampening system which automatically counteracts additional forces applied to the door during the opening or closing cycle by reducing door speed.

N. Stack Pressure Feature: The electronic control allows for increases of forces to overcome stack pressure issues. The control automatically compensates for lower manual push forces when the door is used in manual mode. The door must comply with ANSI A156.19, when using this feature.

O. Lock engage circuit: If locking is unsuccessful when the door reaches the closed position, the operator will automatically reverse open 10 degrees and reclose in an attempt to successfully lock the door.

P. Test of Safety Sensors: If optional safety sensors are specified, the control will monitor the sensors before opening and closing the door. If sensors are not functioning correctly, automation is deactivated and the door will function as a manual swing door with a door closer and a fault is registered in the controls log.

Q. Fire rated surface applied operators connect to the surface of an existing fire rated labeled door frame or wall. Connecting hardware and UL approved fire exit hardware is required. See UL materials directory.

R. A fire alarm contact will be provided with this unit, upon receipt of a signal from an external source (fire alarm), the unit will close if in an open condition and not operate as an automatic door, until the signal from the external source has been reset.

S. Signage: Provide signage in accordance with ANSI/BHMA A156.19.

OPTIONAL FEATURES
A. S.M.A.R.T. panel LCD display: Will display the current status of the operator, any faults that the control sees and if required display a screen giving contact details for fault notification.

B. Battery back-up: Accessibility and convenience at non-fire rated opening(s) under power failure. The minimum size Uninterrupted Power Supply (UPS) should be rated at 1500VA.

PUSH PLATE CONTROL DEVICE
Actuation device is either:
A. Hard wired push plate switches. These will be either surface mounted with an appropriate enclosure or in a concealed single gang electrical box.

B. Radio controlled push plate switches.

C. Touch less Activation sensor plates, 4 1/2 inch square microwave technology, adjustable from 2" to 24:"

Option: Suitable bollard for remotely mounting push plates in areas where no suitable mounting for existing methods of mounting the push plates exist.

Option: Push to Activate - is a programmable feature. Push or pull the door open from any position, and the door will gently power open, time out and slowly close.

Door can be used as a manual door with no damage to the operator.

ELECTRICAL CHARACTERISTICS AND COMPONENTS
A. ELECTRICAL CHARACTERISTICS: Power consumption must be less than or equal to the following: Nominal power 67 watts, Nominal current .08A at 120 VAC. Peak power consumption 2.9A, Standby .02A with power consumption of 13 watts.

B. OVERLOAD PROTECTION: Electric motor is equipped standard with a built-in thermal overload protection.

C. ELECTRICAL CONTRACTOR NOTE: Provide 120v 15A dedicated electrical circuit to operator header locations, as shown on drawings. If hardwire activation is to be used, provide two low voltage 18 gauge stranded wires from automatic operator to (50 feet max.) activation devices (if required).

ALUMINUM FINISHES

A. All exposed aluminum surfaces are dark bronze anodized (AAC23A44) or clear anodized (AAC22A31). Custom finishes such as stainless steel clad, powder coatings or paint are available, if specified (architect to provide color).

EXAMINATION
A. Verify the openings are plumb and are dimensioned properly. Insure adequate support has been provided at the operator header. Proceed with the installation only after conditions are deemed satisfactory.

INSTALLATION AND ADJUSTMENT
A. Install equipment in accordance with the manufacturers' installation instructions. Adjust equipment per instructions and current ANSI/BHMA 156.19 American National Standard for Power assist and low energy power operated doors.

B. Door Operators: Connect door operators to electrical power distribution system as specified in Division 26 Sections.

C. Controls: terminate wire to: controls, press plates, safety sensors.

GENERAL
A. The commercial low energy automatic swing door operator shall consist of aluminum operator housing, electro-mechanical motor, operator assembly, swing arm and electronic control. Installation shall be performed by a local AAADM certified installer.

REFERENCES – (Codes & Approvals)
A. Unit described complies with current ANSI A156.19 for Power Assist and Low Energy Power Operated Doors.

B. Unit is listed with UL 325-1997standard for Door, Drapery, Gate, Louver, and Window Operators and Systems (File E218616).

C. Unit is listed with UL991 Tests for Safety-Related Controls Employing Solid-State Devices

D. CNL approved (UL listing for use in Canada).

E. Unit complies with NFPA 101 Life Safety Code. (Section 1.4 of UL 325 includes NFPA 101)

F. Unit complies with NFPA 70 National Electrical Code. (Section 1.1 of UL 325 includes NFPA 70)

G. Unit complies with IBC (2003)

H. Unit exceeds BHMA testing - ANSI BHMA A156.19 Section 5 Cycle Testing. (tested 1,000,000 ops)

I. Listed in accordance with the Uniform Building Code standard 7-2, "Fire Tests of Door Assemblies", (1997) Part I in addition to UL 10C.

PERFORMANCE REQUIREMENTS
A. Operator to be used on doors weighing up to 175 pounds per leaf.

B. Operator capable of operating within temperature ranges of -40°F and +140°F

OPERATION AND MAINTENANCE DATA
A. Owner's manual will be supplied as part of the close out documentation.

QUALITY ASSURANCE
A. Operator shall be manufactured by an AAADM registered manufacture. Manufactured to meet or exceed the American National Standard for Low Energy Power Operated Pedestrian Doors ANSI / BHMA 156.19.

B. Source Limitations: Obtain automatic door operators and installation services through one source from a single manufacturer.

INSTALLER QUALIFICATIONS
A. Equipment must be installed by an AAADM Certified, record-USA factory trained and record-USA authorized company with a minimum of 5 years' experience in the installation of the specified product type.

B. Installing company of the equipment, to provide local central dispatch system for warranty service, this is to be available 24 hours a day, 365 days per year. A sticker will be placed in a prominent position on the header of each installed unit giving details of local service company, name and telephone number. If a SMART panel option is used, then details of the telephone number to be called will be programmed into the device.

IV. TERMS AND CONDITIONS – SPECIAL

1. **AWARD CRITERIA:** Offers will be evaluated using only the factors stated below. Evaluation factors are stated in the relative order of importance, with the first factor being the most important. The cost will be evaluated on the total price for eight automatic door openers including installation. Once evaluation is complete, all responsive Offertory will be ranked from most advantageous to least advantageous.

    A. Cost – 60%
    B. Past Business Experience – 20%
    C. Card Access Capabilities – 10%
    D. Customer Service – 10%

2. ADDITIONAL ITEMS

a. The University reserves the right to extend all of the terms, conditions, specifications, prices of any contract resulting from this solicitation to any and all University Campuses located throughout the state.

b. The estimated quantity of eight listed above is based on recent history. Clemson does not guarantee any minimum or maximum quantity as the actual quantity may vary.

c. All automatic door components are warranted to be free of defects in materials or workmanship under normal use for a period of one year from the date of substantial completion. Immediate correction must be made at the vendors expense within the first year of installation should there be a defect in material or workmanship.

d. Parking permits are required for all vendors who will be parking on campus. Please review the University Parking & Transportation Services website at http://www.clemson.edu/campus-life/campus-services/parking/parkingpermits/index.html for rules, regulations and to obtain a Vendor Parking tag. There is a fee associated with the parking permit that will be the responsibility of the awarded Offeror in addition to any citations and fines that are given.

e. Contractor shall be responsible for the supervision and execution of services by its employees. The site must be maintained in a clean and safe condition at all times within reason. The contractor will be solely responsible for any/all tools, supplies, and articles left on the premises at all times.