



**PASCO COUNTY BOARD OF COUNTY COMMISSIONERS  
PURCHASING DEPARTMENT  
8919 GOVERNMENT DRIVE  
NEW PORT RICHEY, FLORIDA 34654**

TELEPHONE: (727) 847-8194  
FACSIMILE: (727) 847-8065  
[pascocountyfl.net](http://pascocountyfl.net)

# INVITATION FOR BIDS

## BID NO. 07-134F

## FIRE ALARM SYSTEM UPGRADE

### SUMMARY OF WORK

It is the intent of this solicitation to contract with a company to upgrade the fire alarm system at the Pasco County Land O' Lakes Detention Center.

The Pasco County Purchasing Department will receive sealed bids until 2:00 p.m., local time (our clock), on June 11, 2007, in the Pasco County Purchasing Department, 8919 Government Drive, New Port Richey, Florida. Bids received after this time will not be accepted. Bids will be publicly opened and read at the above-stated time and date. All interested parties are invited to attend. Bidders shall submit one (1) original bid form.

A *mandatory* prebid conference will be held at 10:00 a.m. at the Land O' Lakes Detention Center, 20101 Central Boulevard, Land O' Lakes, Florida 34639, on May 24, 2007. All interested parties are to meet in the front lobby of the Detention Center and are required to attend. The purpose of the prebid conference is to allow potential bidders an opportunity to present questions to staff and obtain clarification of the requirements contained in the issued bid documents. Because Pasco County considers the conference to be critical to understanding the bid requirements, interested firms are required to arrive within the first thirty (30) minutes of the start time to qualify as a bidder.

Insurance coverage is required for this project; please refer to the Special Provisions.

Please immediately advise of address changes or if you wish to have your firm removed from the vendor list. Vendors receiving this notice must submit either a bid/proposal or "NO BID" to remain on our vendor list for the specified commodity or service. A "NO BID" is provided on Page 2 for your convenience.

This cover is only intended to inform vendors of a pending Invitation for Bid or Request for Proposal. For complete details, please refer to the complete bid/proposal package.

Bid documents may be downloaded by visiting [www.PascoCountyFL.net](http://www.PascoCountyFL.net) or by requesting copies from the Purchasing Department at no cost. Pasco County is not responsible for expenses incurred prior to award by the Board of County Commissioners (BCC).

Frank C. Aleskwiz  
Buyer



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**STATEMENT OF NO BID**

We, the undersigned, have declined to submit a bid response to Invitation for Bid No. 07-134F for the following reason(s):

Please check all that apply.

1. ☐ Opening date does not allow sufficient time to complete bid response.
2. ☐ We do not offer the commodities or services requested.
3. ☐ Our schedule would not permit us to perform.
4. ☐ We are unable to meet the issued specification.
5. ☐ Specifications are restrictive (please explain below).
6. ☐ We are unable to meet the surety requirements.
7. ☐ Other: \_\_\_\_\_

Explanations: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

We understand that if a "NO BID" is not returned, our firm will be removed from the bidders' list for the subject commodity.

Name: \_\_\_\_\_

Signature: \_\_\_\_\_

Company: \_\_\_\_\_

Address: \_\_\_\_\_

City/State/Zip: \_\_\_\_\_

Telephone: \_\_\_\_\_

Facsimile: \_\_\_\_\_

Fed. ID No.: \_\_\_\_\_

# **IMPORTANT!—PLEASE READ CAREFULLY BEFORE MAKING BID**

## **GENERAL PROVISIONS**

These general terms and conditions of the bid quotation and acceptance apply in like force to this inquiry and to any subsequent contract resulting therefrom.

### ACKNOWLEDGMENT OF AMENDMENTS

Bidders shall acknowledge receipt of any amendment to the solicitation by identifying the amendment number in the space provided for this purpose on the bid form, by letter, or by returning a copy of the issued amendment with the submitted bid. The acknowledgment must be received by Pasco County by the time and at the place specified for the receipt of bids. Failure to acknowledge an issued amendment may result in bid rejection and disqualification.

### ADDITIONAL INFORMATION

Questions concerning the contract or technical portions of the bid document must be submitted in writing to Scott P. Stromer, Purchasing Director, Pasco County Purchasing Department; 8919 Government Drive; New Port Richey, Florida 34654; facsimile (fax) machine number (727) 847-8065. Bidders are cautioned that any statements made by individuals, or employees of Pasco County, that materially change any portion of the bid document shall not be relied upon unless subsequently ratified by a formal written amendment to the bid document. No contractual or technical questions will be accepted after ten (10) days prior to the date set for bid opening.

### ALTERNATIVE BIDS

The bidder **WILL NOT** be allowed to offer more than one (1) price (for the goods or services specified). If the said bidder should submit more than one (1) price on any item (or service), ALL prices will be rejected for that item. The bidders offering service delivery methods other than those permitted by the scope of work or specifications may submit a separate envelope clearly marked "Alternative Bid." Alternative bids will be deemed nonresponsive and will not be considered for award. All such responses will, however, be examined prior to award. Such examination may result in cancellation of all bids received to permit rewriting the scope of work or specifications to include the alternative method, or the alternative method may be considered for future requirements of Pasco County.

### ANTITRUST

By entering into a contract, the contractor conveys, sells, assigns, and transfers to Pasco County all rights, titles, and interest it may now have or hereafter acquire under the antitrust laws of the United States and the State of Florida that relate to the particular goods or services purchased or acquired by Pasco County under the said contract.

### APPLICABLE LAW

The contract shall be governed in all respects by the laws of the State of Florida, and any litigation with respect thereto shall be brought in the courts of Pasco County, Florida. The contractor shall comply with all applicable Federal, State, and local laws and regulations. Lack of knowledge by the bidder will in no way be a cause for relief from responsibility.

### ASSIGNMENT

The contractor shall not assign, transfer, convey, sublet, or otherwise dispose of any award or any or all of its rights, title, or interest therein, or delegate the duties hereunder without the prior written consent of Pasco County.

### AWARD

Consideration for award will be by proximity to specifications given, costs, and time of delivery. All purchases, leases, or contracts that are based on competitive bids will be awarded to the lowest, responsive, and responsible bidder. Complete and accurate responses to all items are necessary for the complete and fair evaluation of bids. Bid award, in addition to the above stated, will be based on compliance with the specified requirements as well as the "total-cost" or "life-cycle costing" concept, including the following: 1) Cost: A cost analysis will be conducted and will include all identifiable costs associated with acquisition, installation, maintenance, and operation of the bidder's offered equipment. The analysis will be based upon the bidder's proposal data and other costs which, in the judgment of the evaluators, will be incurred by Pasco County resulting from acceptance of the bidder's proposal; 2) Equipment: Evaluation of equipment will be based on compliance with the specifications, expected life of equipment, output, maintenance, consumption, disposal value, warranty, complexity of operation, required training, and other factors that may contribute to the overall cost of the specified item; and 3) Bidder's Reputation and Experience: Evaluation of the bidder's reputation, past performance, and experience shall be based on the nature and extent of company data furnished, references and financial responsibility of the bidder.

### BID ACCEPTANCE PERIOD

Any bid submitted as a result of the solicitation shall be binding on the bidder for a minimum of ninety (90) calendar days following the bid opening date. Any bid for which the bidder specifies a shorter acceptance period may be rejected.

### BID CLARIFICATIONS

If any party contemplating the submission of a bid on this invitation is in doubt as to the true meaning of any part of the plans, specifications, or other documents, he should submit a written request for an interpretation thereof to the Purchasing Director. The bidder's concerns, regarding clarification of specifications and/or discrepancies and/or omissions and/or changes to the attached specifications shall be made in writing and received by Pasco County no later than ten (10) calendar days prior to the bid opening date. The letter from the bidder shall state clearly, and in detail, the basis for such concern(s) or request(s). The letter shall be addressed to the Purchasing Director, and marked "PREBID QUESTION" on the face of the envelope. The Purchasing Director will respond in writing. An interpretation of the bid invitation document will be made only by addendum duly issued to each party receiving a bid invitation. All such addenda shall become part of the contract documents. Pasco County shall not be responsible for explanations or interpretations of bid invitation documents except as issued in accordance herewith. No oral interpretations will be made as to the meaning of specifications or any other contract documents. Failure to comply with this provision will result in the bidder waiving his/her right to dispute the bid specification.

### BIDDER CERTIFICATION

The bidder agrees that submission of a signed bid form is certification that the bidder will accept an award made to it as a result of the submission.

### BIDDER INVESTIGATIONS

Before submitting a bid, each bidder shall make all investigations and examinations necessary to ascertain all site conditions and requirements affecting the full performance of the contract and to verify any representations made by Pasco County upon which the bidder will rely. If the bidder receives an award as a result of its bid submission, failure to have made such investigations and examinations will in no way relieve the bidder from its obligation to comply in every detail with all provisions and requirements of the contract documents, nor will a plea of ignorance of such conditions and requirements be accepted as a basis for any claim whatsoever by the contractor for additional compensation.

### BIDDERS' LIST

Failure to submit a bid for the item(s) specified will result in removal from the bidders' list for such (an) item(s). If a bid is not submitted, a "NO BID" response must be submitted to remain on the Pasco County's bidders' list for such items. A form for submitting a "NO BID" is provided on Page 2 for your convenience.

### BID ENVELOPES

Envelopes containing bids must be sealed and marked in the lower left-hand corner with the invitation number, commodity, and date and hour of opening of bids. Failure to do so may cause bid not to be considered. Express Company or Express Mail envelopes containing a sealed bid shall also be sealed and marked in the lower left-hand corner with the invitation number, commodity, and date and hour of opening of bids.

### BID FORM SUBMISSION

Bids shall be submitted on the attached forms. Bids concerning separate bid invitations must not be combined on the same form or placed in the same envelope. Bids submitted in violation of this provision shall not be considered. All bids must be signed, in ink, in order to be considered. Erasures are not acceptable on bids; if necessary to make a change, strike out or draw a line through incorrect item and type the correction above, and initial the correction in ink. If the bidder is a firm or corporation, the bidder must show the title of the individual executing the bid, and if the individual is not an officer of the firm or corporation, the bidder must submit proof that the individual has the authority to obligate the firm or corporation. **BIDS MAY NOT BE ALTERED OR AMENDED AFTER THE BID CLOSING.**

### BID RECEIPT AND OPENING

Pasco County will receive sealed bid proposals until date and time indicated on bid cover. Bids must be delivered, by hand or mail, to the Pasco County Purchasing Department, located at 8919 Government Drive, New Port Richey, Florida, where they will be opened at the stated time. Bids must be time stamped in the Purchasing Department before or on the hour and date indicated on the cover sheet (Invitation for Bid) for the bid opening. Bids received after the date and time of the bid opening will be received, date stamped, and returned to the bidder unopened. It is the responsibility of the bidder to ensure that bids arrive at the designated opening place on time. Late or nondelivery due to mail or express delivery company failure will not be considered adequate reason for consideration of late bids. **FAXED BIDS WILL NOT BE ACCEPTED AND SHALL NOT BE CONSIDERED FOR EVALUATION OR AWARD.** Notes may be taken at the public reading of the bid(s) at the specified time and date of the opening or a personal inspection may be made of the bid(s) after award has been made and documents are placed in central and public files.

### BID WITHDRAWAL

Bids may not be changed after the bid closing time.

To withdraw a bid that includes a clerical error after bid opening, the bidder must give notice in writing to Pasco County of claim or right to withdraw a bid. Within two (2) business days after the bid opening, the bidder requesting withdrawal must provide to Pasco County all original work papers, documents, and other materials used in the preparation of the bid. A bidder may also withdraw a bid prior to the time set for the opening of bids by simply making a request in writing to Pasco County; no explanation is required. No bidder who is permitted to withdraw a bid shall, for compensation, supply any material or labor to or perform any subcontract or other work for the person to whom the contract is awarded or otherwise benefit from the contract. No partial withdrawals of a bid are permitted after the time and date set for the bid opening; only complete withdrawals are permitted. The decision to allow or disallow bid withdrawal remains solely with Pasco County.

### BRAND NAMES

Any catalog, brand name, or manufacturer's reference used in the specifications is intended to be descriptive and not restrictive, and is used **only** to indicate type and quality desired. Any article, equipment, or material, which shall conform to the standards and excellence, so established, and is of equal merit, strength, durability, and appearance to perform the desired function, is deemed eligible for offer as a substitute. The qualifications of the offering shall be judged as to their conformance with these specifications. Any equipment offered other than herein specified shall be subject to a competitive demonstration and evaluation by Pasco County. The determination as to whether any alternate product or service is or is not equal shall be made by Pasco County, and such determination(s) shall be final and binding upon all bidders.

### CANCELLATION

Pasco County reserves the right to cancel a resulting contract, without cause, by giving thirty (30) days' prior written notice to the contractor of the intention to cancel, or with cause if at any time the contractor fails to fulfill or abide by any of the terms or conditions specified. Failure of the contractor to comply with any of the provisions of a resulting contract shall be considered a material breach of contract and shall be cause for immediate termination of the contract at the sole discretion of Pasco County. In addition to all other legal remedies available to Pasco County, Pasco County reserves the right to cancel and obtain from another source, any services which have not been provided within the required period of time or, if no such time is stated, within a reasonable period of time from the date of order or request, as determined by Pasco County.

### CERTIFICATION OF INDEPENDENT PRICE DETERMINATION

The bidder certifies that the prices submitted in response to the solicitation have been arrived at independently and without—for the purpose of restricting competition—any consultation, communication, or agreement with any other bidder or competitor relating to those prices, the intention to submit a bid, or the methods or factors used to calculate the prices bid.

### CHANGE IN SCOPE OF WORK

Pasco County may order changes in the work consisting of additions, deletions, or other revisions within the general scope of the contract. No claims may be made by the contractor that the scope of the project or of the contractor's services has been changed, requiring changes to the amount of compensation to the contractor or other adjustments to the contract, unless such changes or adjustments have been made by written amendment to the contract or

purchase order signed by Purchasing Director. If the contractor believes that any particular work is not within the scope of the project, is a material change, or will otherwise require more compensation to the contractor, the contractor must immediately notify Pasco County in writing of this belief. If Pasco County believes that the particular work is within the scope of the contract as written, the contractor will be ordered to and shall continue with the work as changed and at the cost stated for the work within the scope.

#### COLLUSION AMONG BIDDERS

Each bidder, by submitting a bid, certifies that it is not a party to any collusive action or any action that may be in violation of the Sherman Antitrust Act. Any or all bids shall be rejected if there is any reason for believing that collusion exists among the bidders. Pasco County may or may not, at its discretion, accept future bids for the same work from participants in such collusion. More than one (1) bid from an individual, firm, partnership, cooperation, or association under the same or different names may be rejected. Reasonable grounds for believing that a bidder has interest in more than one (1) bid for the work being bid may result in rejection of all bids in which the bidder is believed to have interest. Nothing in this clause shall preclude a firm acting as a subcontractor to be included as a subcontractor for two (2) or more primary contractors submitting a bid for the work.

#### CONFLICT OF INTEREST

The contractor, by submission of its proposal, certifies that to the best of his/her knowledge or belief, no elected/appointed official or employee of Pasco County is financially interested, directly or indirectly, in the offer of goods or services specified in this invitation.

#### DEBARMENT

By submitting a bid, the bidder certifies that it is not currently debarred from submitting bids for contracts issued by any political subdivision or agency of the State of Florida and that it is not an agent of a person or entity that is currently debarred from submitting bids for contracts issued by any subdivision or agency of the State of Florida.

#### ERRORS IN EXTENSIONS

If the unit price and the extension price are at variance, the unit price shall prevail.

#### ETHICS IN PUBLIC PROCUREMENT

The contract shall incorporate by reference, but shall not be limited to, the provisions of law contained in Chapter 112, Florida Statutes. A person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid on a contract to provide any 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 or real property to a public entity; may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity; and may not transact business with any public entity in excess of the threshold amount provided in Section 287.017, Florida Statutes, for CATEGORY TWO for a period of thirty-six (36) months from the date of being placed on the convicted vendor list. The bidder certifies that its bid was made without collusion or fraud; that it has not offered or received any kickbacks or inducements from any other bidder, supplier, manufacturer, or subcontractor in connection with this bid; and that it has not conferred on any public employee having official responsibility for this procurement transaction any payment, loan, subscription, advance, deposit of money, services, or anything of value.

#### EXCEPTIONS

Bidders taking exception to any part or section of the solicitation shall indicate such exceptions on the bid form or appendix. Failure to indicate any exception will be interpreted as the bidder's intent to comply fully with the requirements as written. Conditional or qualified bids, unless specifically allowed, shall be subject to rejection in whole or in part.

#### EXPENSES INCURRED IN PREPARING BID

Pasco County accepts no responsibility for any expense incurred by the bidder in the preparation and presentation of a bid. Such expenses shall be borne exclusively by the bidder.

#### FAILURE TO DELIVER

In the event of failure of the contractor to deliver the goods and services in accordance with the contract terms and conditions, Pasco County may procure the goods and services from other sources and hold the contractor responsible for any resulting additional costs. A failure to deliver will result in immediate termination of a resulting contract, and immediate disqualification and debarment from submitting bids to Pasco County for a maximum of three (3) years. These remedies shall be in addition to any other remedies that Pasco County may have available.

#### FAILURE TO ENFORCE

Failure by Pasco County at any time to enforce the provisions of the contract shall not be construed as a waiver of any such provisions. Such failure to enforce shall not affect the validity of the contract or any part thereof or the right of Pasco County to enforce any provision at any time in accordance with its terms.

#### FAIR LABOR STANDARDS

By submission of a bid, the bidder certifies that the contractor(s) and/or subcontractor(s) providing product(s) or service(s) shall, in the execution or performance of such a contract, maintain fair labor standards as defined in applicable State and Federal regulations.

#### FORCE MAJEURE

The contractor shall not be held responsible for failure to perform the duties and responsibilities imposed by the contract due to legal strikes, fires, riots, rebellions, and acts of God beyond the control of the contractor, unless otherwise specified in the contract.

#### IDENTICAL BIDS

Identical bids or bids which otherwise appear suspicious will be reported to the County Attorney for investigation.

#### INDEMNIFICATION

In consideration of the sum of Fifteen and 00/100 Dollars (\$15.00), the receipt and sufficiency of which is acknowledged by the contractor to be included and paid for in the contract price, the contractor shall indemnify, defend, and hold harmless Pasco County and its agents and employees from and against all liabilities, claims, damages, losses, and expenses, including attorneys' fees, arising out of or resulting from the performance of the work, provided that any such liability, claim, damage, loss, or expense: 1) is attributable to bodily injury, sickness, disease or death, or to injury to or destruction of tangible property (other than the work itself), including the loss of use resulting therefrom; and 2) is caused in whole or in part by any negligent act or omission of the contractor and subcontractor, anyone directly or indirectly employed by any of them, or anyone for whose acts any of them may be liable, except for those caused by the negligent act or omission of Pasco County.



In any and all claims against Pasco County or any of its agents or employees by any employee of the contractor, any subcontractor, anyone directly or indirectly employed by any of them, or anyone for whose acts any of them may be liable, the indemnification obligation under the previous paragraph shall not be limited in any way as to the amount or type of damages, compensation, or benefits payable by or for the contractor or any subcontractor under Workers' Compensation Acts, disability benefit acts, or other employee benefit acts.

#### INDEPENDENT CONTRACTOR

The contractor shall be legally considered an independent contractor and neither the contractor nor its employees shall, under any circumstances, be considered servants or agents of Pasco County; and Pasco County shall be at no time legally responsible for any negligence or other wrongdoing by the contractor, its servants, or agents. Pasco County shall not withhold from the contractor any Federal or State unemployment taxes, Federal or State income taxes, Social Security tax, or any other amounts for benefits to the contractor. Further, Pasco County shall not provide to the contractor any insurance coverage or other benefits, including workers' compensation, normally provided by Pasco County for its employees.

#### INFORMALITIES AND IRREGULARITIES

Pasco County has the right to waive minor defects or variations of a bid from the exact requirements of the specifications that do not affect the price, quality, quantity, delivery, or performance time of the services being procured. If insufficient information is submitted by a bidder with the bid for Pasco County to properly evaluate the bid, Pasco County has the right to require such additional information as it may deem necessary after the time set for receipt of bids, provided that the information requested does not change the price, quality, quantity, delivery, or performance time of the services being procured. The BCC reserves the right to reject any or all bids in whole or in part; to award by any item, group(s) of items, total bid, or accept the bid that is most advantageous and in the best interest of Pasco County.

#### LIMITATION OF COST

The contractor agrees to perform the work specified and complete all obligations under the contract within the stated amounts.

#### NONAPPROPRIATION

All funds for payment by Pasco County under this contract are subject to the availability of an annual appropriation for this purpose by Pasco County. In the event of nonappropriation of funds by Pasco County for the services provided under the contract, Pasco County will terminate the contract, without termination charge or other liability, on the last day of the then-current fiscal year or when the appropriation made for the then-current year for the services covered by this contract is spent, whichever event occurs first. If at any time funds are not appropriated for the continuance of this contract, cancellation shall be accepted by the contractor on thirty (30) days' prior written notice, but failure to give such notice shall be of no effect, and Pasco County shall not be obligated under this contract beyond the date of termination.

#### NONCONFORMING TERMS AND CONDITIONS

A bid response that includes terms and conditions that do not conform to the terms and conditions in the bid document is subject to rejection as nonresponsive. Pasco County reserves the right to permit the bidder to withdraw nonconforming terms and conditions from its bid response prior to a determination by Pasco County of nonresponsiveness based on the submission of nonconforming terms and conditions.

### NONDISCRIMINATION

By submission of bid, the bidder certifies that the contractor(s) and/or subcontractor(s) providing product(s) or service(s) shall not discriminate against any employee or applicant for employment, to be employed in the performance of such contract, with respect to his/her hire, tenure, terms, conditions, or privileges of employment, because of his/her race, color, religion, sex, disability, or national origin, as outlined in applicable State and Federal regulations.

### ORAL STATEMENTS

No oral statement of any person shall modify or otherwise affect the terms, conditions, or specifications stated in this contract. All modifications to the contract or purchase order must be made in writing by Pasco County.

### PATENTS AND ROYALTIES

The contractor covenants to save, defend, keep harmless, and indemnify Pasco County and all of its officers, departments, agencies, agents, and employees from and against all claims, loss, damage, injury, fines, penalties, and cost—including court costs and attorney's fees, charges, liability, and exposure, however caused—for or on account of any copyright or patented or unpatented invention, process, or article manufactured or used in the performance of the contract, including its use by Pasco County. If the contractor uses any design, device, or materials covered by patent or copyright, it is mutually agreed and understood without exception that the contract price includes all royalties or costs arising from the use of such design, device, or materials in any way in the work.

### PAYMENT PROCEDURES

The BCC has adopted Resolution No. 95-70, incorporating its Invoice Payment Procedures Policy in order to help ensure that vendors providing goods and/or services to the BCC receive payment in a timely manner and in accordance with Chapter 218, Part VII, Florida Statutes (The Florida Prompt Payment Act). A copy of Resolution No. 95-70 (which includes the policy) is available for viewing during normal business hours at the Office of the Pasco County Clerk of the Circuit Court; 38053 Live Oak Avenue; Department of Secretarial Services, Room 205; Dade City, Florida 33525. Copies of the Resolution may be obtained at a cost of One and 20/100 Dollars (\$1.20). Please make your check payable to Jed Pittman, Clerk of the Circuit Court, and forward payment to the Department of Secretarial Services at the address noted above. For further information, please call (352) 521-4347.

Several payment options are available to successful vendor, upon receipt of a correct invoice:

1. Check may be mailed to the remit address on the invoice. The check is sent to the Post Office the day after BCC approval.
2. Check may be picked up in Dade City. The vendor must pick up the check the day after BCC approval. The successful bidder or contractor must call (352) 521-4599 for detailed instructions.
3. Payment may be wire-transferred to the vendor's bank account. The vendor must call (352) 521-4599 for detailed instructions.

### PAYMENT TERMS AND DISCOUNTS

Unless otherwise indicated in the bid documents, payment terms will be net forty-five (45) days. Terms not consistent with this provision are not acceptable and may be cause for rejection. Pasco County will pay the contractor within forty-five (45) days after the receipt of a correct invoice for reasonable work allocable to the contract or after the date of acceptance of work that

meets contract requirements, whichever event occurs later. Payment(s) are considered effective on the date payment is mailed.

Discounts for prompt payment requiring payment by Pasco County within a stipulated number of days will be interpreted as applying within the stipulated number of calendar days after the date of receipt by Pasco County of a correct invoice describing reasonable work allocable to the contract or after the date of acceptance of work that meets contract requirements, whichever event occurs later. Discounts for payment in less than forty-five (45) days will not be considered during evaluation for award, but may be taken if applicable after award.

Payment for construction services will be in accordance with Chapter 218, Part VII, Florida Statutes (The Florida Prompt Payment Act).

#### PROCUREMENT REGULATIONS

A copy of the Pasco County Procurement Ordinance is available for review at Pasco County Purchasing Department, 8919 Government Drive, New Port Richey, Florida.

#### PUBLIC INFORMATION

Upon public opening of all bids or proposals presented to Pasco County as a result of this solicitation, any and all information contained therein is considered public and may be reviewed by any persons interested in doing so.

#### PURCHASE ORDER REQUIREMENT

Purchases of Pasco County are authorized only if a signed purchase order issued in advance of the transaction, showing that the ordering agency has sufficient funds available to pay for the service. Contractors providing services without a signed purchase order do so at their own risk. Pasco County will not be liable for payment for any services provided under the contract unless a valid purchase order has been issued to the contractor.

#### QUALIFICATIONS OF BIDDERS

The bidder may be required before the award of any contract to show to the complete satisfaction of Pasco County that it has the necessary facilities, ability, and financial resources to provide the service specified therein in a satisfactory manner. The bidder may also be required to give a past history and references in order to satisfy Pasco County in regard to the bidder's qualifications. Pasco County may make reasonable investigations deemed necessary and proper to determine the ability of the bidder to perform the work, and the bidder shall furnish to Pasco County all information for this purpose that may be requested. Pasco County reserves the right to reject any bid if the evidence submitted by, or investigation of, the bidder fails to satisfy Pasco County that the bidder is properly qualified to carry out the obligations of the contract and to complete the work described therein. Evaluation of the bidder's qualifications shall include:

1. The ability, capacity, skill, and financial resources to perform the work or provide the service required.
2. The ability of the bidder to perform the work or provide the service promptly or within the time specified, without delay or interference.
3. The character, integrity, reputation, judgment, experience, and efficiency of the bidder.
4. The quality of performance of previous contracts or services.

### QUALITY OF GOODS

All goods shall be new, in first class condition, and of the manufacturer's latest design of the model presently in production. All materials, supplies, and equipment furnished or services performed under the terms of this purchase order or contractual agreement shall comply with the requirements and standards specified in the Williams-Steiger Occupational Safety and Health Act of 1970 (Public Law 91-596), as well as other applicable Federal, State, and local codes. Equipment and materials furnished by the bidder having serious defects, corrosion, or scratches which tend to present an "other than new" appearance shall be promptly replaced or such defects promptly corrected by the bidder at no cost to Pasco County. Any existing Material Safety Data Sheets (MSDS) for the products, materials, supplies, or equipment being bid must be submitted with the bid. No product containing asbestos, lead paint, or polychlorinated biphenyl (PCB) in any form will be considered for award by Pasco County.

### RECOVERY OF MONEY

Whenever, under the contract, any sum of money shall be recoverable from or payable by the contractor to Pasco County, the same amount may be deducted from any sum due the contractor under the contract or under any other contract between the contractor and Pasco County. The rights of Pasco County are in addition and without prejudice to any other right Pasco County may have to claim the amount of any loss or damage suffered by Pasco County on account of the acts or omissions of the contractor.

### RIGHT TO AUDIT

The contractor shall maintain such financial records and other records as they relate to the purchase of goods and/or services by Pasco County from the subject vendor. The contractor shall retain these records for a period of three (3) years after final payment, or until they are audited by Pasco County, whichever event occurs first. These records shall be made available during the term of the contract and the subsequent three (3) year period for examination, transcription, and audit by Pasco County, its designees, or other authorized bodies.

### RISK OF LOSS

Pasco County shall be relieved from all risks of loss or damage to goods during periods of transportation, manufacture, and the entire time the goods are in the possession of Pasco County prior to acceptance by Pasco County. At such time, the risk of loss or damage for goods shall pass to Pasco County. The bidder/contractor shall not be responsible for damage to the goods occasioned by negligence of Pasco County or its employees.

### TABULATIONS

Solicitation results, plan holder lists, and related information may be retrieved from our website: [www.PascoCountyFL.net](http://www.PascoCountyFL.net). Click on "Bids," click on "closed solicitations," and look for the solicitation number in the appropriate year. Solicitation results will normally be available online within three (3) working days after opening. Lengthy tabulations may not be available online, but may be viewed in the Purchasing Department. Plan holder lists will normally be available two (2) weeks prior to opening. Plan holder lists will be posted once, based on the information at the time, and will not be updated. Tabulations will not be given over the telephone or via fax.

### TAXES

All bids shall be submitted exclusive of direct Federal, State, and local taxes; however, if the bidder believes certain taxes are properly payable, he/she may list such taxes separately in each case directly below the respective item bid price. Prices quoted must be in units specified, and shall not include the cost of any such taxes, including those on any material, supplies, or equipment used or installed in the work. Pasco County does not pay Federal Excise and Sales

Taxes on direct purchases of tangible personal property. See Exemption Number on face of the resulting purchase order. This exemption does not apply to purchases of tangible personal property made by contractors who use the tangible personal property in the performance of contracts for improvement of County-owned real property. Please refer to Chapter 192, Florida Statutes.

**UNSATISFACTORY WORK**

If, at any time during the contract term, the service performed or work done by the contractor is considered by Pasco County to create a condition that threatens the health, safety, or welfare of the community, the contractor shall, on being notified by Pasco County, immediately correct such deficient service or work. In the event the contractor fails, after notice, to correct the deficient service or work immediately, Pasco County shall have the right to order the correction of the deficiency by separate contract or with its own resources at the expense of the contractor. Notwithstanding the above, Pasco County reserves the right to cancel a resulting contract, without cause, by giving thirty (30) days' prior written notice to the contractor of the intention to cancel.

**END OF GENERAL PROVISIONS**

## SPECIAL PROVISIONS

In addition to the General Provisions of this solicitation, these Special Provisions, along with the specifications that follow, apply in like force to this solicitation and to any subsequent contract resulting therefrom.

### INSURANCE REQUIREMENTS

The insurance required must be written by an insurer authorized to do business in the State of Florida and also have an "A" policyholder's rating and a financial rating of at least Class VIII in accordance with the most current *Best's Key Rating Guide*. Prior to the time the contractor is entitled to commence any part of the project, work, or services under this contract, the contractor shall procure, pay for, and maintain at least the following insurance coverages and limits. The said insurance shall be evidenced by delivery to Pasco County of 1) Certificates of Insurance executed by the insurers listing coverages and limits, expiration dates and terms of policies and all endorsements whether or not required by Pasco County, and listing all carriers issuing the said policies; and 2) upon request, a certified copy of each policy, including all endorsements. The insurance requirements shall remain in effect throughout the term of this contract.

1. Workers' Compensation in at least the limits as required by law; Employers' Liability Insurance of not less than One Hundred Thousand and 00/100 Dollars (\$100,000.00) for each accident. The contractor agrees to waive its right of subrogation as part of this coverage.
2. Comprehensive General Liability Insurance including, but not limited to, Independent, Contractor, Contractual, Premises/Operations, Products/Completed Operation and Personal Injury covering the liability assumed under indemnification provisions of this contract, with limits of liability for personal injury and/or bodily injury, including death, of not less than Two Million and 00/100 Dollars (\$2,000,000.00), each occurrence; and property damage of not less than One Million and 00/100 Dollars (\$1,000,000.00), each occurrence. (Combined single limits of not less than Two Million and 00/100 Dollars [\$2,000,000.00], each occurrence, will be acceptable unless otherwise stated.) Coverage shall be on an "occurrence" basis, and the policy shall include Broad Form Property Damage coverage and Fire Legal Liability of not less than Fifty Thousand and 00/100 Dollars (\$50,000.00) per occurrence, unless otherwise stated by exception herein.
3. Comprehensive Automobile and Truck liability covering owned, hired, and nonowned vehicles with combined single limits of not less than One Million and 00/100 Dollars (\$1,000,000.00), each occurrence. Coverage shall be on an "occurrence" basis, such insurance to include coverage for loading and unloading hazards.

Each insurance policy shall include the following conditions by endorsement to the policy:

1. Each policy shall require that thirty (30) days prior to expiration, cancellation, nonrenewal, or any material change in coverages or limits, a notice thereof shall be given to Pasco County by certified mail to: Pasco County Purchasing Department, 8919 Government Drive, New Port Richey, Florida 34654. The contractor shall also notify Pasco County, in a like manner, within twenty-four (24) hours after receipt, of any

notices of expiration, cancellation, nonrenewal, or material change in coverage received by the said contractor from its insurer; and nothing contained herein shall absolve the contractor of this requirement to provide notice.

2. Companies issuing the insurance policy, or policies, shall have no recourse against Pasco County for payment of premiums or assessments for any deductibles that all are at the sole responsibility and risk of the contractor.
3. The term "County" or "Pasco County" shall include all Authorities, Boards, Bureaus, Commissions, Divisions, Departments, and Offices of County and individual members, employees thereof in their official capacities, and/or while acting on behalf of Pasco County.
4. Pasco County BCC shall be endorsed to the required policy or policies as an additional named insured.
5. The policy clause "Other Insurance" shall not apply to any insurance coverage currently held by Pasco County to any such future coverage, or to Pasco County's self-insured retentions of whatever nature.

Pasco County hereby waives subrogation rights for loss or damage against Pasco County.

#### **TRANSPORTATION AND PACKING**

Prices quoted shall be net, including transportation and delivery charges fully prepaid by the seller, f.o.b. Land O' Lakes, Florida. No additional charges will be allowed for packing, packages, or partial delivery costs. By submitting their bids, all bidders certify and warrant that the price offered for f.o.b. destination includes only the actual freight rate costs at the lowest and best rate and is based upon actual weight of the goods to be shipped. Standard commercial packaging, packing, and shipping containers shall be used, except as otherwise specified herein.

#### **END OF SPECIAL PROVISIONS**

# **LIFE SAFETY FIRE ALARM UPGRADE SYSTEM SPECIFICATIONS**

## **1.0 PART I - GENERAL**

### **1.1 Summary**

#### **1.1.1 Summary - Fire**

This performance specification provides the minimum requirements for the Life Safety System. The system shall include, but not limited to all equipment, materials, labor, documentation, and services necessary to repair and upgrade a complete operational system to include, but not limited to, the following functions:

1.1.1.1. Smoke and fire detection.

1.1.1.2. Sprinkler suppression system monitoring and control.

#### **1.1.2 Manufacturer**

1.1.2.1. Acceptable fire alarm system manufacturer: GE EST Fire Alarm System.

1.1.2.2. All equipment and components shall be the manufacturer's current model. The materials, appliances, equipment, and devices shall be tested and listed by a nationally recognized approvals agency for use as part of a protected premises protective signaling fire alarm system. The authorized representative of the manufacturer of the major equipment, such as control panels, shall be responsible for the satisfactory installation of the complete system.

1.1.2.3. The contractor shall provide from the acceptable manufacturer's current product lines equipment and components which comply with the requirements of these specifications. Equipment or components which do not provide the performance and features required by these specifications are not acceptable.

### **1.2 References**

#### **1.2.1 Codes**

##### **Codes - Fire**

The equipment and installation shall comply with the current provisions of the following codes and standards:

- a. NFPA 70 - 2002 National Electric Code®.
- b. NFPA 72 - 1999 National Fire Alarm Code®.



- c. NFPA 90A - 1999 Air Conditioning Systems.
- d. NFPA 92A - 2000 Smoke Control Systems.
- e. NFPA 92B - 2000 Smoke Management Systems in Malls, Atria, and Large Areas.
- f. NFPA 101- 2000 Life Safety Code®.
- g. UL 864 - Control Units for Fire Protective Signaling Systems.
- h. UL 268 - Smoke Detectors for Fire Protective Signaling Systems.
- i. UL 268A - Smoke Detectors for Duct Applications.
- j. UL 217 - Single and Multiple Station Smoke Alarms.
- k. UL 521 - Heat Detectors for Fire Protective Signaling Systems.
- l. L 228 - Door Closers-Holders, With or Without Integral Smoke Detectors.
- m. UL 464 - Audible Signaling Appliances.
- n. UL 38 - Manually Actuated Signaling Boxes for Use with Fire-Protective Signaling Systems.
- o. UL 346 - Waterflow Indicators for Fire Protective Signaling Systems.
- p. UL 1971 - Signaling Devices for the Hearing-Impaired.
- q. UL 1481 - Power Supplies for Fire Protective Signaling Systems.
- r. All local codes and standards.
- s. State of Florida Accessibility Code.
- t. Federal Codes and Regulations.
- u. Americans with Disabilities Act (ADA).
- v. Factory Mutual (FM) approval.
- w. International Standards Organization (ISO).
- x. ISO-9000
- y. ISO-9001

### 1.3 **System Description**

#### 1.3.1 **General**

##### **General - Fire**

- a. The contractor shall furnish all labor, services, and materials necessary to furnish and install a complete functional fire alarm system. The system shall comply in all respects to all pertinent codes, rules, regulations, and laws of the authority and local jurisdiction. The system shall comply in all respects with the requirements of the specifications, manufacturer's recommendations, and Underwriters Laboratories Inc. (ULI), listings.
- b. It is further intended that upon completion of this work the Owner be provided with:
  - (1) Complete information, software, and drawings describing and depicting the entire system as installed, including all information necessary for maintaining, troubleshooting, and/or expanding the system at a future date.
  - (2) Complete documentation of system testing.
  - (3) Certification that the entire system has been inspected and tested and is installed entirely in accordance with the applicable codes, standards, manufacturer's recommendations, ULI listings, and is in proper working order. The contractor shall use "Fire Alarm System Certification and Description" as required by Section 1-6.2 of NFPA 72 - 1999 Edition.

#### 1.3.2 **Description**

##### **Description - Fire**

Remove existing and install a new fire detection and alarm system consisting of:

- (1) Fire Command Center (FCC) located in the Central Control Room.
- (2) All remote annunciators located throughout facility.
- (3) UL listed color graphic workstation and printer located in the Central Control Room.
- (4) Reuse all existing graphic panels in the Central Control Room and Medical Unit, A-Pod, B-Pod, D-Pod, and

booking. Update graphic driver systems to maintain compatibility with new system.

- (5) All remote network control panels located in Central Control Room, A-Pod, B-Pod, D-Pod, Medical, J-Wing, and Sprung Unit.
- (6) Manual pull stations shall be reused if UL is listed as compatible with new system, otherwise replaced.
- (7) Area smoke detection shall be reused if UL listed as compatible with new system, otherwise replaced.
- (8) Area heat detection shall be reused if UL listed as compatible with new system, otherwise replaced.
- (9) Duct smoke detection shall be reused if UL listed as compatible with new system, otherwise replaced.
- (10) Monitoring of the sprinkler system waterflow and valve supervisory switches shall be reused if UL listed as compatible with new system, otherwise replaced.
- (11) Monitoring of the stand alone suppression systems shall be reused if UL listed as compatible with new system, otherwise replaced.
- (12) Audible appliances located throughout the building shall be reused if UL listed as compatible with new system, otherwise replaced.
- (13) All visual appliances located throughout the building shall be synchronized.
- (14) Fan shutdown controls shall be reused if UL listed as compatible with new system, otherwise replaced.
- (15) Elevator recall functions for primary and alternate floors and elevator power shunt trip activation shall be reused if UL listed as compatible with new system, otherwise replaced.
- (16) Provide network connection to a central control room from Sprung Unit.
- (17) Remove the existing fire detection and alarm system not reused and return to the owner.

- (18) Add heat detection in laundry Room H162 per code and tie into local system panel.
- (19) Add heat detection in boiler Room H162 per code and tie into local system panel.

### 1.3.3 Operations

#### 1.3.3.1. Sequence of Operations

##### a. General

Upon the alarm activation of any area smoke detector, heat detector, manual pull station, sprinkler waterflow, the following functions shall automatically occur:

- 1.3.3.1.a.1.1 The internal audible device shall sound at the control panel or command center. Display the alarm event on the graphical workstation.
- 1.3.3.1.a.1.2 The LCD display shall indicate all applicable information associated with the alarm condition including; zone, device type, device location, and time/date. All system activity/events shall be documented on the system printer.
- 1.3.3.1.a.1.3 Any remote or local annunciator LCD/LEDs associated with the alarm zone shall be illuminated.
- 1.3.3.1.a.1.4 Activate notification audible appliances in the building with a general alarm evacuation similar to existing system.
- 1.3.3.1.a.1.5 Activate visual strobes notification appliances in the building with a general alarm evacuation similar to existing system.
- 1.3.3.1.a.1.6 Transmit the signal to the Central Control Room with point identification.
- 1.3.3.1.a.1.7 All existing automatic events programmed to the alarm point shall be executed and the associated outputs activated.
- 1.3.3.1.a.1.8 All stairwell/exit doors shall respond as existing.
- 1.3.3.1.a.1.9 All self-closing fire/smoke doors held open shall be released as existing.

##### b. Duct Smoke Activation - Supervisory

The supervisory activation of any duct smoke detector: the following functions shall automatically occur:

- 1.3.3.1.b.1.1 The internal audible device shall sound at the control panel or command center.
- 1.3.3.1.b.1.2 Display the event on the graphical workstation and display a pictorial image.

- 1.3.3.1.b.1.3 The LCD display shall indicate all applicable information associated with the supervisory condition including; zone, device type, device location, and time/date.
- 1.3.3.1.b.1.4 All system activity/events shall be documented on the system printer.
- 1.3.3.1.b.1.5 Any remote or local annunciator associated with the alarm zone shall be illuminated.
- 1.3.3.1.b.1.6 Shutdown all the associated local air handling units.
- 1.3.3.1.b.1.7 All automatic events programmed to the alarm point shall be executed and the associated outputs activated.

**c. Supervisory Operation**

Upon supervisory activation of any sprinkler valve supervisory switch, fire pump off-normal, the following functions shall automatically occur:

- 1.3.3.1.c.1.1 The internal audible device shall sound at the control panel or command center.
- 1.3.3.1.c.1.2 Display the event on the graphical workstation and display a pictorial image. The LCD display shall indicate all applicable information associated with the supervisory condition including; zone, device type, device location and time/date.
- 1.3.3.1.c.1.3 All system activity/events shall be documented on the system printer.
- 1.3.3.1.c.1.4 Any remote or local annunciator LCD/LEDs associated with the supervisory zone shall be illuminated.

**d. Trouble Operation**

Upon activation of a trouble condition or signal from any device on the system, the following functions shall automatically occur:

- 1.3.3.1.d.1.1 The internal audible device shall sound at the control panel or command center.
- 1.3.3.1.d.1.2 Display the event on the graphical workstation and display a pictorial image.
- 1.3.3.1.d.1.3 The LCD keypad display shall indicate all applicable information associated with the trouble condition including; zone, device type, device location, and time/date.
- 1.3.3.1.d.1.4 All system activity/events shall be documented on the system printer.
- 1.3.3.1.d.1.5 Any remote or local annunciator LCD/LED's associated with the trouble zone shall be illuminated.

#### 1.3.3.2. **Graphic Workstation**

##### **Graphic Workstation - Fire** (Graphic Workstation Functions)

###### (1) All Events:

- 1.3.3.2.a.1.1 Display the address of the alarm or off normal point with type and description and time of the event in a prioritized color-coded event list. Highlighting an event in the event list shall automatically cause the other three quadrants (described below) to display information relating to the highlighted event.
- 1.3.3.2.a.1.2 Display color graphical representation of the area in which the alarm or off normal device is located. It shall be possible for the operator to manually zoom down to any portion of a vector-based graphic without aliasing, artifacting, or pixilation of the image. Preset zoom levels shall not be considered equal.
- 1.3.3.2.a.1.3 Display a set of written operator instructions for each event. Site programmability of the message must be provided allowing modification by the end user to suit occupancies and emergency plans. The Workstation must provide simple control via a two (2) button mouse.
- 1.3.3.2.a.1.4 Display a preset stored image of the device.
- 1.3.3.2.a.1.5 Log the operator's comments for each event to history with time and date.
- 1.3.3.2.a.1.6 Log all events and operator actions to history for future review.

###### (2) Fire Alarms:

- 1.3.3.2.a.2.1 Shall be capable of acknowledging, silencing, and resetting fire alarm functions.
  - 1.3.3.2.a.2.1.1 Shall be capable of manually activating, deactivating, enabling, and disabling individual fire alarm points.
  - 1.3.3.2.a.2.1.2 Shall be capable of generating status, maintenance and sensitivity reports for all fire alarm components.
  - 1.3.3.2.a.2.1.3 Receipt of a fire alarm shall activate an audio WAV file over the workstation speakers alerting the operator to a fire alarm, and providing audible instructions.

- (3) Maintenance and control functions.
- (4) Control capability.
- (5) Reports: status, sensitivity.

#### 1.3.4 **System Configuration**

##### 1.3.4.1. **General**

All Life Safety System equipment shall be arranged and programmed to provide the early detection of fire, the notification of building occupants, the override of the HVAC system operation, and to facilitate the safe evacuation plan of facility per owners instructions.

##### 1.3.4.2. **Power Supply**

Standby power supply shall be an electrical battery with capacity to operate the system under maximum supervisory load for twenty-four (24) hours and capable of operating the system for five (5) minutes in the alarm mode at 100 percent load. The system shall include a charging circuit to automatically maintain the electrical charge of the battery. The system shall automatically adjust the charging of the battery to compensate for temperature.

##### 1.3.4.3. **Display**

The main display interface shall show the first and most recent highest priority system events without any operator intervention. All system events shall be directed to one (1) of four (4) message queues. Messages of different types shall never be intermixed to eliminate operator confusion. A "Details" switch shall provide additional information about any device highlighted by the operator.

##### 1.3.4.4. **Initiating Device Circuits**

Initiating device circuits monitoring manual fire alarm stations, smoke and heat detectors, waterflow switches, valve supervisory switches, fire pump functions, and air pressure supervisory switches shall be maintained as existing.

##### 1.3.4.5. **Notification Appliance Circuits**

All notification appliance circuits shall be maintained as existing. All notification appliance circuits shall have a minimum circuit output rating of two (2) amps at twenty-four (24) vdc. The notification circuits shall be power limited. Nonpower limited circuits are not acceptable.

#### **1.3.4.6. Signaling Line Circuits**

- a. When a signaling line circuit covers more than one (1) fire/smoke compartment, a wire-to-wire short shall not effect the operation of the circuit from the other fire/smoke compartments. The signaling line circuit connecting network panel/nodes, annunciators, and command centers shall be as existing. The media shall be fiber optic cable from the Sprung Unit to the Central Control Room.
- b. The signaling line circuit connecting to addressable/analog devices, including detectors, monitor modules, control modules, isolation modules, intrusion detection modules, and notification circuit modules shall be as existing.

#### **1.3.4.7. Network Wiring**

The system supplied under this specification shall utilize node-to-node, direct-wired, multi-priority peer-to-peer network operations. The system shall utilize independently addressed, smoke detectors, heat detectors and input/output modules, as described in this specification. The peer-to-peer network shall contain multiple nodes consisting of the command center, main controller, remote control panels, LCD/LED annunciation nodes, and workstations. Each node is an equal, active functional node of the network, which is capable of making all local decisions and generating network tasks to other nodes in the event of node failure or communications failure between nodes.

#### **1.3.4.8. Network Nodes**

The remote network nodes shall meet the same requirements as described in the control panel section and shall contain the following:

- (1) Integral power supplies with secondary stand-by power.
- (2) Signaling line circuits for communications with analog/addressable devices, as required.
- (3) Notification appliance circuits, as required.
- (4) Auxiliary function circuits and operations, as required.

### **1.4 Submittals**

#### **1.4.1 Project**

- 1.4.1.1. The contractor shall purchase no equipment for the system specified herein until the owner has approved the project submittals in their entirety and has returned them to the contractor. It is the responsibility of the contractor to meet the entire intent and functional performance detailed in these specifications. Approved submittals shall only allow the contractor



to proceed with the installation and shall not be construed to mean that the contractor has satisfied the requirements of these specifications. The contractor shall submit three (3) complete sets of documentation within thirty (30) calendar days after award of purchase order.

1.4.1.2. Each submittal shall include a cover letter providing a list of each variation that the submittal may have from the requirements of the contract documents. In addition, the contractor shall provide specific notation on each shop drawing, sample, catalog cut, data sheet, installation manual, etc. submitted for review and approval of each such variation.

1.4.1.3. All drawings and diagrams shall include the contractor's title block, complete with drawing title, contractor's name, address, date, including revisions and preparer's and reviewer's initials.

a. Product Data:

Data sheets with the printed logo or trademark of the manufacturer for all equipment. Indicated in the documentation will be the type, size, rating, style, and catalog number for all items proposed to meet the system performance detailed in this specification. The proposed equipment shall be subject to the approval of the owner/engineer.

b. Shop Drawings:

A complete set of shop drawings shall be supplied. The shop drawings shall be reproduced electronically in digital format. This package shall include but not be limited to:

1.4.1.3.b.1.1 Control panel wiring and interconnection schematics.

1.4.1.3.b.1.2 Network riser diagram.

1.4.1.3.b.1.3 Complete system bill of material.

1.4.1.3.b.1.4 All drawings shall be reviewed and signed off by an individual having a minimum of a NICET II certification in fire protection engineering technology, subfield of fire alarm systems.

c. Installer's Certification:

(1) The engineered systems distributor must be licensed in the state of project location and have been incorporated in the business in that state for a minimum of five (5) years.

(2) Submit a copy of the system supplier's training certification issued by the manufacturer of the integrated life safety system, and a copy of the installing technician's NICET II certification.

d. System Calculations:

Complete calculations shall be provided which show the electrical load on the following system components:

- 1.4.1.3.d.1.1 Each system power supply, including stand alone booster supplies.
- 1.4.1.3.d.1.2 Each standby power supply (batteries).
- 1.4.1.3.d.1.3 Each notification appliance circuit.
- 1.4.1.3.d.1.4 Each auxiliary control circuit that draws power from any system power supply.

1.4.2 **Close Out**

Two (2) copies of the following documents shall be delivered to the building owner's representative at the time of system acceptance. The close out submittals shall include:

- a. Project-specific operating manuals covering the installed integrated life safety system. The manual shall contain a detailed narrative description of the system architecture, inputs, notification signaling, auxiliary functions, annunciation, sequence of operations, expansion capability, application considerations, and limitations. The manufacturer's data sheets and installation manuals/instructions for all equipment supplied. A generic or typical owner's instruction and operation manual shall not be acceptable to fulfill this requirement.
- b. As-Built drawings consisting of: a scaled plan of each building showing the placement of each network node.
- c. All drawings shall be provided in standard .DXF format.
- d. The application program listing for the system as installed at the time of acceptance by the building owner and/or local AHJ (disk, hard copy printout, and all required passwords).
- e. Provide the name, address, and telephone of the authorized factory representative.
- f. A filled out Record of Completion similar to NFPA 72, 1999 Edition, Figure 1-6.2.1.

## **1.5 Quality Assurance**

### **1.5.1 Qualifications of Contractor**

#### **Fire**

- a. The contractor shall have successfully installed similar system fire detection, evacuation voice, and visual signaling control components on a previous project of comparable size and complexity. The owner reserves the right to reject any control components for which evidence of a successful prior installation performed by the contractor cannot be provided.
- b. The contractor shall have in-house engineering and project management capability consistent with the requirements of this project. Qualified and approved representatives of the system manufacturer shall perform the detailed engineering design of central and remote control equipment. Qualified and approved representatives of the system manufacturer shall produce all panel and equipment drawings and submittals, operating manuals. The contractor is responsible for retaining qualified and approved representatives of those system manufacturers specified for detailed system design and documentation, coordination of system installation requirements, and final system testing and commissioning in accordance with these specifications.

### **1.5.2 Preinstallation Meetings**

#### **1.5.2.1. Preinstallation Requirements**

- a. The provider shall submit a detailed project plan that will describe in detail how the provider will approach the project from inception to finalization. The plan must include at a minimum the following information:
  - (1) Project Staging
  - (2) Project Management
  - (3) Equipment Schedules
  - (4) Installation Time Lines
  - (5) Other Trade Requirements
  - (6) Final Acceptance Testing
  - (7) Personnel Resumes
  - (8) Progress Report Sample
- b. All equipment and components shall be installed in strict compliance with each manufacturer's recommendations. Consult the manufacturer's installation manuals for all wiring diagrams, schematics, physical equipment sizes, etc. before beginning system installation. Refer to the manufacturers riser/connection diagram and details for all specific system installation/termination/wiring data.

- c. The contractor shall provide information required by the Pasco Sheriff's Office for "Request for Background Check" at the Preinstallation Meeting. The required information for each person working at the site is as follows:

- (1) Company Name
- (2) Birth Date: (Name of Birth Certificate)
- (3) SS#: XXX-XX-XXXX
- (4) Date of Birth: XX/XX/XXXX
- (5) Sex: Male or Female
- (6) Race: White, Black, etc.

**1.5.2.2. Start and Completion Dates**

The starting and completion dates for this work will be established at the preinstallation meeting.

**1.6 Project Conditions**

- 1.6.1 All work may be conducted during normal working hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, by properly coordinating the work with the owner. Any additional hours must be scheduled and approved by the owner.

- 1.6.2 The contractor shall be responsible for prior coordination of all work and demolition with the owner.

**1.7 Warranty and Maintenance**

- 1.7.1 The contractor shall warranty all materials, installation, and workmanship for one (1) year from date of acceptance, unless otherwise specified. A copy of the manufacturer's warranty shall be provided with close-out documentation and included with the operation and installation manuals.

- 1.7.2 The contractor shall be able to respond to any defects that render the system inoperative within twenty-four (24) hours of the owner notifying the contractor.

**1.8 Training**

- 1.8.1 The system supplier shall schedule and present a minimum of eight (8) hours of documented, formalized instruction for the building owner detailing the proper operation of the installed system.

- 1.8.2 The instruction shall be presented in an organized and professional manner by a factory-trained person in the operation and maintenance of the equipment and who is also thoroughly familiar with the installation.

- 1.8.3 The instruction shall cover the schedule of maintenance required by NFPA 72 and any additional maintenance recommended by the system manufacturer.

- 1.8.4 Instruction shall be made available to the Local Municipal Fire Department if requested by the Local Authority Having Jurisdiction.

## 2.0 PART 2 - PRODUCTS

### 2.1 **Manufacturer**

#### **Fire**

- 2.1.1.1. The manufacturer of the system equipment shall be regularly involved in the design, manufacture, and distribution of all products specified in this document. These processes shall be monitored under a quality assurance program that meets the ISO 9000 requirements.
- 2.1.1.2. All system components shall be the cataloged products of a single supplier. All products shall be listed by the manufacturer for their intended purpose.
- 2.1.1.3. GE EST Life Safety products constitute the minimum type and quality of equipment to be installed.
- 2.1.1.4. All control panel assemblies and connected field appliances shall be both designed and manufactured by the same company, and shall be tested and cross-listed as to ensure that a fully functioning is designed and installed. The system supplied under this specification shall be a microprocessor-based direct wired, multi-priority peer-to-peer networked system. The system shall utilize independently addressed, microprocessor-based smoke detectors, heat detectors, and modules as described in this specification.

### 2.2 **Panel Components and Functions**

#### 2.2.1 **General**

##### **General - Fire**

- a. The control panels shall be a multi-processor based networked system designed specifically for fire applications. The control panel shall be listed and approved for the application standards as listed under the General Section.
- b. The control panel shall include all required hardware, software, and site-specific system programming to provide a complete and operational system. The control panels shall be designed such that interactions between any applications can be configured and modified using software provided by a single supplier. The control panel's operational priority shall assure that life safety takes precedence among the activities coordinated by the control panel.
- c. The control panel shall include the following capacities:
  - (1) Support up to 2,500 analog/addressable points.

- (2) Support network connections up to sixty-three (63) other control panels and annunciators.
  - (3) Support multiple digital dialers and modems.
  - (4) Support multiple communication ports and protocols.
  - (5) Support up to 1,740 chronological events.
- d. The network of control panels shall include the following features:
- (1) Ability to download all network applications and firmware from the configuration computer from the configuration computer from a single location on the system.
  - (2) Provide electronic addressing of analog/addressable devices.
  - (3) Provide an operator interface control/display that shall annunciate, command and control system functions.
  - (4) Provide an internal audible signal with different programmable patterns to distinguish between alarm, supervisory, trouble, and monitor conditions.
  - (5) Provide a discreet system control switch provided for reset, alarm silence, panel silence, drill switch, previous message switch, next message switch, and details switch.
  - (6) Provide system reports that provide detailed description of the status of system parameters for corrective action or for preventative maintenance programs. The reports shall be displayed by the operator interface or capable of being printed on a printer.
  - (7) Provide an authorized operator with the ability to operate or modify system functions like system time, date, passwords, holiday dates; restart the system, and clear control panel event history file.
  - (8) Provide an authorized operator to perform test functions within the installed system.
  - (9) The control panel shall contain a standby power supply that automatically supplies electrical energy to the system upon primary power supply failure. The system shall include a charging circuit to automatically maintain the electrical charge of the battery.

## 2.2.2 Operator's Interface

### Annunciation

- a. The system shall be designed and equipped to receive, monitor, and annunciate signals from devices and circuits installed throughout the building. Standard LED annunciators may be combined in common enclosures provided that the groups of LEDs comprising each of the required annunciators are separated from one another (Detection, Supervisory, Status, and Status) and are clearly labeled.
- b. The manufacturer's standard control switches shall be acceptable if they provide the required operation, including performance, supervision, and position indication. If the manufacturer's standard switches do not comply with these requirements, fabrication of custom manual controls acceptable to the owner is required.
- c. Receipt of alarm, trouble, and supervisory signals shall activate integral audible devices at the control panels and at each remote annunciation device. The integral audible devices shall produce a sound output upon activation of not less than eighty-five (85) dba at ten (10) feet. The annunciator shall contain the following system status indicators:
  - (1) 168-Character Backlit Liquid Crystal Display.
  - (2) System Normal Indicator.
  - (3) System Common Alarm Indicator.
  - (4) System Common Trouble Indicator.
  - (5) System Common Supervisory Indicator.
  - (6) System Ground Fault Indicator.
  - (7) System Common Security Indicator.
  - (8) System Disabled Point(s) Indicator.
  - (9) System Reset Switch with Indicator.
  - (10) System Alarm Silence Switch with Indicator.
  - (11) System Trouble Silence Switch with Indicator.

(12) System Message Queue Scroll Switches.

(13) 10-Digit Keypad to Enable/Disable System and Functions.

### **2.2.3 Power Supply**

- 2.2.3.1. System power supplies shall provide multiple power limited to twenty-four (24) VDC output circuits, as required by the panel.
- 2.2.3.2. Upon failure of normal (AC) power, the affected portions of the system shall automatically switch over to secondary power without losing any system functions.
- 2.2.3.3. Each system power supply shall be individually supervised. Power supply trouble signals shall identify the specific supply and the nature of the trouble condition.
- 2.2.3.4. All standby batteries shall be continuously monitored by the power supply. Low battery and disconnection of battery power supply conditions shall immediately be annunciated as battery trouble and identify the specific power supply affected.
- 2.2.3.5. All system power supplies shall be capable of recharging their associated batteries from a fully discharged condition to a capacity sufficient to allow the system to perform consistent with the requirements of this section; in forty-eight (48) hours maximum.
- 2.2.3.6. All AC power connections shall be to the building's designated emergency electrical power circuit and shall meet the requirements of NFPA 72; the AC power circuit shall be installed in conduit raceway. The power circuit disconnect means shall be clearly labeled FIRE ALARM CIRCUIT CONTROL and shall have a red marking. The location of the circuit disconnect shall be labeled permanently inside each control panel the disconnect serves.

### **2.2.4 Reports**

- 2.2.4.1. The system shall provide the operator with system reports that give detailed description of the status of system parameters for corrective action or for preventative maintenance programs. The system shall provide these reports via the main LCD and shall be capable of being printed on any system printer.
- 2.2.4.2. The system shall provide a report that gives a sensitivity listing of all detectors that have less than seventy-five (75) percent environmental compensation remaining. The system shall provide a report that provides a sensitivity (% obscuration per foot) listing of any particular detector.
- 2.2.4.3. The system shall provide a report that gives a listing of the sensitivity of all of the detectors on any given panel in the system, or any given analog/addressable device loop within any given panel.



- 2.2.4.4. The system shall provide a report that gives a chronological listing of up to the last 1,740 system events.
- 2.2.4.5. The system shall provide a listing of all of the firmware revision listings for all of the installed network components in the system.

## 2.2.5 **System Printer**

The event and status printer shall be a nine (9) pin, impact, dot matrix printer with a minimum print speed of 232 characters per second. The printer shall be capable of serial or parallel communications protocol. The communications speed for RS-232 communications protocol shall be adjustable from 300 to 9600 Baud. The printer shall list the time, date, type, and user defined message for each event printed.

## 2.3 **Graphic Command Workstation**

### **Fire**

#### 2.3.1.1. **General**

The command center shall function as the center point for all operational and administration functions required for the systems provided within the specification. A single graphical workstation shall be provided that will enable primary control of the systems provided by this specification. An operator shall not have to operate multiple workstations to receive, view, process, and record system events for each system provided. Equipment included in the command center shall include:

- (1) System annunciation and controls for all existing system points.
- (2) Fire detection.
- (3) Fire suppression.
- (4) Fire pump status.
- (5) Standby generator status indication and controls.
- (6) Automatic transfer switch status indication and controls.
- (7) Elevator monitor, status, and controls.

#### 2.3.1.2. **Graphical Command Workstation**

- a. The graphical command workstation shall display a different color text for each message type and capable of color graphic diagrams/floor plans. The graphical command workstation shall simultaneously display the following system event views: system event display, graphical diagram display, detailed event

message/instructions, and user event log. The workstation shall be an IBM-compatible personal computer listed for UL Standards 864 under categories UOJZ, APOU, and UUKL. The workstation shall be capable of annunciation and control of all fire detection and smoke control points.

- b. The computer shall be minimum of a Pentium Grade, Pentium Processor, 2.4 Ghz with a 533Mhz front side bus, 512 MB RAM, 80 GB hard drive, and 21" LCD monitor. Installation of the computer or monitor shall be desktop mounted.
- c. The software shall provide a multitasking type environment that allows the user to run several applications simultaneously. The operating program shall run within a thirty-two (32) bit operating system such as Windows® XP. These Windows applications shall run simultaneously with other programs. The mouse or Alt-Tab keys shall be used to quickly select and switch between multiple applications. The operator shall be able to work in Microsoft Word, Excel, and other Windows-based software packages, while concurrently annunciating on-line alarms and monitoring functions.

#### **2.3.1.3. Graphic Workstation Operations**

The graphic display screen shall organize and structure system events for easy user comprehension. The workstation display shall use four relational quadrants. When any event occurs:

- (1) The "list of events area" shall display the address of the alarm or off-normal point with type and description and time of the event in a prioritized color-coded event list. Highlighting an event in the event list area shall automatically cause the display of a graphical map and other three (3) areas (described below) to display information relating to the highlighted event.
- (2) The "map area" shall be capable of displaying color graphical representation of the area location in which the alarm or off-normal device is located. It shall be possible for the operator to manually zoom down to any portion of a vector-based graphic without aliasing, artifacting, or pixilation of the image. Preset zoom levels shall not be considered equal.
- (3) The "event action area" shall display a customized set of written operator instructions for every state (alarm, trouble, restore, etc.) of each point. An event log shall record all events and operator actions to history for future review. An operator's log shall record the operator's comments for each event in system history with time and date.

- (4) When processing fire alarm events the graphic workstation:

- 2.3.1.3.a.4.1 Shall be capable of acknowledging, silencing, and resetting all fire alarm functions.
- 2.3.1.3.a.4.2 Shall be capable of manually activating, deactivating, enabling, and disabling individual fire alarm points.
- 2.3.1.3.a.4.3 Shall be capable of generating status, maintenance and sensitivity reports for fire alarm components.
- 2.3.1.3.a.4.4 Receipt of a fire alarm shall activate an audio WAV file over the workstation speakers alerting the operator to a fire alarm.

## **2.4 Field-Mounted System Components**

### **Fire-Initiating Devices**

#### **2.4.1.1. Heat Detectors**

##### **Fixed Temperature-ROR Heat Detector**

Provide analog/addressable combination fixed temperature/rate-of-rise detectors at the locations shown on the drawings. The heat detector shall have a nominal fixed temperature alarm point rating of 135°F (57°C) and a rate of rise alarm point of 15°F (9°C) per minute. The heat detector shall be rated for ceiling installation at a minimum of seventy (70) feet (21.3m) centers and be suitable for wall-mount applications.

#### **2.4.1.2. Detector Bases**

##### **Detector Base - Standard**

Provide standard detector-mounting bases suitable for mounting on either North American 1-gang, 3½ or 4 inch octagon box and 4 inch square box, or European BESA or 1-gang box. The base shall contain no electronics and support all series detector types.

## **3.0 PART 3 - EXECUTION**

### **3.1 Installation**

#### **3.1.1 Installation Sequence**

Installation of the systems shall be conducted in stages and phased such that circuits and equipment are installed in the following order:

- a. Fire command center, remote control panels, control components, annunciators, and printers. Provide temporary mounting of fire command center in Central Control Room.

- b. Any conduits and wiring for complete installation throughout facility.
- c. Install all new detection devices.
- d. Terminations between field devices and the associated control equipment.
- e. The detection system shall be switched over and at the end of each day the system shall be operational. At no time will the system be placed out of service over night.
- f. Complete contractor pretest of system.
- g. Complete system testing.

### 3.1.2 **General**

All equipment shall be attached to walls and ceiling/floor assemblies and shall be mounted firmly in place. The detectors shall not be supported solely by suspended ceilings. The fasteners and supports shall be sized to support the required load.

### 3.1.3 **Conductors and Raceway**

- 3.1.3.1. Except, as otherwise required by code and/or these specifications, the installation of all system circuits shall conform to the requirements of Article 760 and raceway installation to the applicable sections of Chapter 3 of NFPA 70 - 1996, National Electrical Code. Fire alarm circuit wiring shall include all circuits described in Section 760-1.
- 3.1.3.2. The entire system shall be installed in a skillful manner in accordance with approved manufacturer's installation manuals, shop drawings, and wiring diagrams. The contractor shall furnish all conduit, wiring, outlet boxes, junction boxes, cabinets, and similar devices necessary for the complete installation. All wiring shall be of the type required by the NEC and approved by local authorities having jurisdiction for the purpose.
- 3.1.3.3. Any shorts, opens, or grounds found on new or existing wiring shall be corrected prior to the connection of these wires to any panel component or field device.
- 3.1.3.4. The contractor shall neatly tie-wrap all field-wiring conductors in the gutter spaces of the control panels and secure the wiring away from all circuit boards and control equipment components. All field-wiring circuits shall be neatly and legibly labeled in the control panel. No wiring, except home runs from life safety system circuits and system power supply circuits, shall be permitted in the control panel enclosures. No wiring splices shall be permitted in a control panel enclosure.

- 3.1.3.5. All penetration of floor slabs and firewalls shall be fire stopped in accordance with all local fire codes.

## **3.2 Field Quality Control**

### **Test and Inspection**

- 3.2.1.1. All intelligent analog addressable devices shall be tested for current address, sensitivity, and user defined message.
- 3.2.1.2. All wiring shall be tested for continuity, shorts, and grounds before the system is activated.
- 3.2.1.3. All test equipment, instruments, tools, and labor required to conduct the tests shall be made available by the installing contractor.
- 3.2.1.4. The system, including all its sequence of operations, shall be demonstrated to the owner, his representative, and the local fire inspector. In the event the system does not operate properly, the test shall be terminated. Corrections shall be made and the testing procedure shall be repeated until it is acceptable to the owner, his representatives, and the fire inspector.
- 3.2.1.5. At the final test and inspection, a factory-trained representative of the system manufacturer shall demonstrate that the system functions properly in accordance with these specifications. The representative shall provide technical supervision and participate during all of the testing for the system.
- 3.2.1.6. All fire alarm testing shall be in accordance with National Fire Alarm Code, NFPA 72 - 1999, Chapter 7.
- 3.2.1.7. A letter from the contractor certifying that the system is installed entirely in accordance with the system manufacturer's recommendations and within the limitations of the required listings and approvals, that all system hardware and software has been visually inspected and functionally tested by a manufacturer's certified representative, and that the system is in proper working order.

## **END OF SPECIFICATIONS**

## BID FORM

Business Name: \_\_\_\_\_

Item No.	Description	Lump Sum Bid
1.	Provide labor and material to upgrade the fire alarm system per specifications at Location No. 353, PSO, Detention Center, 20101 Central Boulevard, Land O' Lakes, Florida	\$_____

Manufacturer: \_\_\_\_\_ Warranty: \_\_\_\_\_

Begin work within \_\_\_\_\_ days after receipt of Purchase Order.

"We offer to sell/provide Pasco County, Florida, the above item(s) and/or service(s) at the price(s) stated, in accordance with the terms and conditions contained herein. In addition, the item(s) and/or service(s) offered above meet all specifications contained herein or attached, unless otherwise stipulated by exception. This offer to sell/provide is firm for ninety (90) days."

\_\_\_\_\_  
(Signature of Bidder—Ink)

\_\_\_\_\_  
(Printed Name and Title)

\_\_\_\_\_  
(Business Name)

Receipt of Addendum No. \_\_\_\_\_ through No. \_\_\_\_\_ is acknowledged.

Business Name: \_\_\_\_\_  
(The Name on File with the Internal Revenue Service)

Doing Business as (Fictitious Name): \_\_\_\_\_

Business Organization:

☐ Corporation:

☐ Partnership:      ☐ General      ☐ Limited

☐ Limited Liability Company (LLC):

State Registered In: \_\_\_\_\_ Year: \_\_\_\_\_

☐ Sole Proprietorship:      Owner: \_\_\_\_\_

☐ Other: \_\_\_\_\_

Telephone: \_\_\_\_\_

Facsimile: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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