



Cal Henderson, Sheriff

HILLSBOROUGH COUNTY
TAMPA, FLORIDA 33601

PURCHASING OFFICE
P.O. BOX 3371
PHONE 813-247-8050
FAX 813-247-0907

August 24, 1999

FISCAL BUREAU
2008 E. 8th Avenue
Tampa, FL 33605

Susan Ferlita, Senior Buyer
(813) 247-8048

PROPOSAL TITLE: Integrated Fiber Intrusion System

PROPOSAL NUMBER: 23-99

INSTRUCTIONS TO BIDDERS

Included herein are General Terms and Provisions (Part A); the Special Provisions (Part B); the Technical Specifications (Part C); and the Proposal Response (Part D), which together with all attachments, constitute the entire "Proposal Package". Said proposal package must be the basis upon which all bids are offered and the same (the entire proposal package) must be kept together and returned, intact, by the time and at the place herein specified. The bidder must **manually sign** the General Terms and Provisions (Part A) and Proposal Response (Part D). Any questions concerning this proposal package should be directed to the Buyer whose name appears above.

When awarded, the proposal package becomes the "**Contract Document**". The Bidder's signature on the proposal constitutes Bidder's agreement to the terms therein. **READ THE ENTIRE BID CAREFULLY BEFORE SIGNING.**

NOTICE TO BIDDERS

WHEN SUBMITTING A SEALED PROPOSAL, ALL PROPOSALS SHOULD BE CLEARLY MARKED AS A PROPOSAL DOCUMENT. THIS IDENTIFICATION SHOULD INCLUDE THE PROPOSAL NUMBER, PROPOSAL TITLE AND DATE DUE ON THE OUTSIDE OF THE ENVELOPE.

REQUEST FOR PROPOSAL FOR
INTEGRATED FIBER INTRUSION SYSTEM
HILLSBOROUGH COUNTY SHERIFF PROPOSAL NO. 23-99

LETTER OF INTENT

The undersigned acknowledges the General Terms and Provisions of this Request for Proposal and intends to respond to the Proposal. We understand that any changes, clarification and addenda to the Proposal will be promptly communicated to the individual authorized below to receive this information.

Name

Company Name

Address

Telephone Number

_____ Will attend the Pre-Proposal Conference

NOTE: IF YOU PLAN TO ATTEND THE PRE-PROPOSAL CONFERENCE, THIS FORM MUST BE FAXED OR DELIVERED PRIOR TO THE CONFERENCE DATE, TO THE ATTENTION OF THE BUYER AT 813-247-0907.

HILLSBOROUGH COUNTY SHERIFF'S OFFICE

2008 E 8th Avenue

Tampa, FL 33605

August 24, 1999

VENDOR:

SUBJECT: Request for Proposal Number 23-99

PROPOSAL TITLE: Integrated Fiber Intrusion System

OPENING DATE & TIME: September 22, 1999 at 3:00 PM

PLACE: Sheriff's Operation Center
Purchasing Office, Room 125
2008 E 8th Avenue
Tampa, FL 33605

Proposals will be received until the time and date shown and will be read aloud immediately thereafter at the "Place" indicated above.

Pre-Proposal Conference: September 8, 1999 at 10:00 AM
Falkenburg Road Jail Facility
520 N Falkenburg Road
Tampa, FL 33619

PART A - GENERAL TERMS AND PROVISIONS:

1. Proposals: Must be contained in a SEALED envelope addressed to: Cal Henderson, Sheriff, 2008 E 8th Avenue, Tampa, Florida 33605. To prevent inadvertent opening, the bid package must be marked as a PROPOSAL DOCUMENT (including the proposal number) on the outside of the envelope.

If our specifications, when included in our Request for Proposal, are not returned with your proposal, and no specific reference is made to them in your proposal, it will be assumed that all specifications will be met. When material, sketches, cuts, descriptive literature, vendor's or manufacturer's specifications which accompany the proposal contain information that can be construed or is intended to be a deviation from our specifications, such deviation must be specifically referenced in your proposal response.

2. The responsibility for getting the proposal to the Sheriff's Office on or before the stated time and date will be solely and strictly the responsibility of the bidder. The Sheriff will in no way be responsible for delays caused by the United States Postal Service or a delay caused by any other occurrence, or any other method of delivery. The bidder shall be responsible for reading very carefully and understanding completely the requirements in the specifications. Proposals will not be accepted after the time specified for receipt. Such proposals shall be returned to the vendor unopened with the notation "This Proposal Was Received After the Time Designated For the Receipt and Opening of Proposals".

3. Time for Consideration: Bidder warrants by virtue of offering the prices quoted in his proposal will be good for an evaluation period of forty-five (45) calendar days from the date of proposal opening unless otherwise stated. Bidders will not be allowed to withdraw or modify their proposals after the opening time and date.
4. Prices: All proposals submitted must show the net proposal price after any and all discounts allowable have been deducted. State sales tax and federal excise taxes shall not be included as the Sheriff's Office is tax-exempt. The Sheriff will issue exemption certificates to the successful bidder when requested. Price(s) offered are to be F.O.B. Destination.
5. Proposal Errors: When errors are found in the extension of proposal prices, the unit price will govern. Proposals having erasures or corrections must be initialed in ink by the bidder.
6. Condition of Materials & Packaging: Unless otherwise indicated, it is understood and agreed that any item offered or shipped on this proposal shall be NEW and in FIRST CLASS CONDITION, that all containers shall be new and suitable for storage or shipment and that prices include standard commercial packaging for the items shipped.
7. Claims: The successful bidder will immediately replace missing or damaged items and will be responsible for making any and all claims against carriers.
8. When to Make Delivery: Deliveries resulting from this proposal are to be made during the normal working hours of the Sheriff's Office. It is the bidder's responsibility to obtain this information.
9. Manufacturer's Name: Any manufacturers' names, trade names, brand names information and/or catalog numbers used herein are for purpose of description, reference, and establishing general quality levels. Such references are not intended to be restrictive and products of any manufacturer may be offered if they are approved as equals. The determination as to whether any alternate product or service is or is not equal shall be made by the Sheriff's Office and such determination shall be final and binding upon all bidders.
10. Information and Descriptive Literature: Bidder must furnish all information requested in the proposal. If specified, each bidder must submit cuts, sketches, descriptive literature and/or complete specifications covering the products offered. Reference to literature submitted with previous proposals will not satisfy this provision. Proposals which do not comply with these requirements will be subject to rejection.
11. Proposal Submittal Costs: Submittal of a proposal is solely at the cost of the bidder and the Sheriff's Office in no way is liable or obligates itself for any cost accrued to the bidder in coming up with the Proposal Submittal.
12. On-Line Documents: The Hillsborough County Sheriff's Office is publishing documents on it's web page for the convenience of vendors wanting to do business with the Sheriff and to save tax dollars. This service is public record and the Sheriff is responsible only for documents as published. Any modifications or alterations to the original document language may be cause for rejection of a proposal.
13. No Proposal: If the receipt of this request for quotation is not acknowledged, Bidder's name may be removed from the bidders' mailing list.
14. Compliance with Occupational Safety and Health Act: Bidder certifies that all material, equipment, etc., contained in his bid meets all OSHA requirements.

15. Public Entity Crimes: Pursuant to Florida Statute 287-132-133, effective July 1, 1989, the Hillsborough County Sheriff, as a public entity, may not accept any proposal from, award any contract to, or transact any business in excess of the threshold amount provided in Section 287.017, F.S., for Category Two (currently \$10,000) with any person or affiliate on the convicted vendor list for a period of 36 months from the date that person or affiliate was placed on the convicted vendor list unless that person or affiliate has been removed from the list pursuant to Section 287.133 (3)(f), F.S.

If you submit a bid or proposal in response to this request, you are certifying that Florida Statute 287.132 and 287.133 does not restrict your submission.

16. Acceptance and Rejection: The Sheriff, Hillsborough County, Florida, reserves the right to reject any or all proposals, for cause, to waive irregularities, if any, in any proposal, and to accept the proposal, which in the judgement of the Sheriff, is in the best interest of Hillsborough County.

17. It is important that vendor visit sites where services, if applicable, are to be provided to familiarize himself with the scope of the effort required.

18. Specifications are attached.

CAL HENDERSON, SHERIFF
HILLSBOROUGH COUNTY, FLORIDA

- Signature on File -

By: _____
J.H. Shillady, Comptroller

19. General Terms and Provisions outlined above are acknowledged. Our proposal is attached.

Date _____

Signed _____

Company Officer

Company Name

NOTE: THIS MUST BE RETURNED WITH YOUR BID AFTER COMPLETING PARAGRAPH 19. EXCEPTIONS TO THE SPECIFICATIONS, IF ANY, MAY BE NOTED ON THE SPECIFICATION PAGE OR IN YOUR PROPOSAL RESPONSE.

PART B - SPECIAL PROVISIONS

1. GENERAL REQUIREMENTS

It is the intent of these specifications to describe the requirements and insure the complete installation of a integrated fiber intrusion system. Installation located at the Falkenburg Road Jail Complex, at 520 N Falkenburg Road, Tampa, Florida.

Work will be accomplished in accordance with the drawings and specifications furnished by the Hillsborough County Sheriff's Office, and upon mutual agreement, between the Sheriff's Office and the Contractor, following an acceptable proposal. See Part C, Technical Specifications for minimum requirements. Sets of drawings will be provided to bidders at the pre-proposal conference.

2. VENDOR QUALIFICATIONS

Vendors may be required to furnish evidence in writing that they maintain permanent places of business and have adequate equipment, finances and personnel to furnish the item or service offered satisfactorily and expeditiously. The Hillsborough County Sheriff's Office reserves the right to inspect the vendor's place of business and equipment prior to award of any contract, for determining ability to meet terms and conditions as set forth herein.

The Bidder shall furnish a copy of either its State of Florida Contractor Certification or its Hillsborough County Contractor License (current and effective as of the proposal date) with its proposal or within 48 hours of notification by the Sheriff's Office that such has not been provided.

3. LAWS AND REGULATIONS

The Bidder's attention is directed to the fact that all applicable Federal, State and local laws, ordinances, codes, rules and regulations shall apply to the contract throughout and they will be deemed to be included in the contract the same as though herein written. Florida law will govern all questions concerning implementation and execution of this contract and shall also be controlling in any cause of action brought pursuant to this contract.

4. PRE-PROPOSAL CONFERENCE

All interested parties are invited to attend a pre-proposal conference (see date on Page 1 of Part A). At this time the Sheriff's representative(s) will be available to answer questions relative to this Request for Proposal. Any suggested modifications may be presented in writing or discussed with the Sheriff's representative(s) at this meeting and may be considered by said representative(s) as possible amendments to the Request for Proposal.

While this is not a mandatory pre-proposal conference, it is requested that all interested parties attend the conference to avoid time consuming delays to Sheriff's Office personnel by having to re-visit the job site, answer additional questions and possibly hold up the project. Pre-proposal conferences are held to offer the opportunity to ask questions by having all parties present, at the same time, and to see the scope of the work involved.

5. BRAND NAMES

Brand names, when furnished, are for reference purposes and to establish a standard of quality. Vendors may propose those brands or approved equals. A detailed manufacturer's specification sheet of each product offered (other than that product specified) shall be submitted with the proposal response. It will be incumbent upon the bidder to provide sufficient information substantiating the claim equivalency.

The evaluation of proposals and the determination as to equality of products offered shall be the sole and final responsibility of the Hillsborough County Sheriff's Office and will be based on information and/or samples furnished by the bidder.

6. AWARD

Award shall be made to the lowest responsive and responsible bidder offering a product and service deemed suitable for use by the Hillsborough County Sheriff's Office.

Award shall be made on an ALL-OR-NONE TOTAL OFFER basis.

6. DISPUTES

Any prospective bidder who disputes the reasonableness or appropriateness of the terms and conditions, special conditions and/or specifications of the proposal document, any addendum, notice of award or notice of rejection for any or all proposals, shall file a notice of intent to protest, in writing, within 72 hours (excluding official holidays, Saturdays and Sundays) of the receipt of the proposal document or notification and a formal written protest in accordance with Florida Administrative Code Rule 60-4.012 within ten (10) calendar days thereafter. Failure to file within the time stipulated constitutes a waiver of proceedings as prescribed by Florida Statute 120. The ten day period includes official holidays, Saturdays and Sundays. If the tenth day should fall on an official holiday, Saturday or Sunday, then the period shall extend until the end of the next regular work day.

Any person who files an action protesting a decision or intended decision pertaining to contracts administered by the Sheriff's Office shall post with the formal protest, a bond in accordance with Florida Statute 287.042 (2) (c) payable to Cal Henderson, Sheriff in an amount equal to 1 percent of the Sheriff's Office estimate of the total volume of the contract or \$5,000, whichever is less. In lieu of a bond, the Sheriff's Office may accept a cashier's check or money order in the amount of the bond.

7. PRE-QUALIFICATION OF SUBCONTRACTORS, VENDORS, AND SUPPLIERS

- a. Within fifteen (15) calendar days after effective date of Notice of Award, the Contractor shall submit to the Sheriff's Office a list of all Subcontractors and all other such persons and organizations whom the Contractor intends to utilize in performing portions of the Work.
- b. The Contractor agrees, within seven (7) calendar days of receipt of a written request from the Sheriff's Office, to promptly remove any personnel employed or retained by the Contractor, whom the Sheriff's Office may request in writing to be removed, with or without cause. Any substitution submitted by the Contractor shall be approved by the Sheriff and at no additional cost.
- c. The Contractor agrees, within seven (7) calendar days of receipt of a written request from the Sheriff's Office, to promptly remove and replace any Subcontractors employed or retained by the

Contract, whom the Sheriff's Office shall request in writing to be removed with or without cause. If the Sheriff's Office requires the removal of any Subcontractor, the Contractor shall submit a substitute acceptable to the Sheriff's Office, and the Contract Price may be increased or decreased by the reasonable difference in costs associated with such substitution, providing proof of increase or decrease is provided. If the Sheriff's Office request was made without cause an appropriate Change Order will be issued.

8. CONTRACTUAL OBLIGATIONS

The successful Bidder may not sublet or subcontract any the contractual obligations concerning this proposal matter except as provided for in the written contract between the Sheriff's Office and Contractor. This statement does not prohibit subcontracting of the work but does prohibit subcontracting overall management obligations pertaining to the work and requires the contractor to retain ultimate liability for all contractual obligations.

9. PRE-INSTALLATION CONFERENCE

Prior to the start of installation, a joint meeting shall be held with representatives of the Contractor, Sheriff's Office staff, and other invited parties which may be affected by or have jurisdiction over the project. This meeting is intended to introduce the various key personnel from each organization and to discuss the start of installation, order of work, labor and legal requirements, insurance requirements, names of the major subcontractors, method of payment, shop drawing requirements, protection of existing facilities, and other pertinent items associated with the project.

10. PLANS AND SPECIFICATIONS

Drawings related to this project will be available to bidders at the pre-proposal conference. Each bidder will be provided a set. After the award, a more detailed set of plans (when appropriate) shall be made available to the successful bidder as determined by the Sheriff's Office.

11. CONTRACT DOCUMENTS

a. Precedence

The Contract Documents comprise the entire agreement between the Sheriff's Office and Contractor concerning the Work and may be altered only by a Change Order.

It is the intent of the Contract Documents to describe the total Work to be installed. The Contract Documents are complementary. What is called for by one is as binding as if called for by all. If the Contractor finds a conflict, error, or discrepancy in the Contract Documents, he will call it to the Buyer's attention in writing before proceeding with the Work. The Buyer will respond with a written clarification. Any delays associated with the clarification will be considered for time extensions only, but no damages for delay will be allowed. In resolving such conflicts, errors, and discrepancies, the Contract Documents shall be given preference in terms of the most stringent requirements as determined by the Project Manager. Enforcement of the most stringent requirements will be at the Sheriff's option. Figure dimensions on the Drawings (when provided) shall govern over scale dimensions, and the detailed Drawing shall govern over general Drawings. Any work that may reasonably be inferred from the Contract Documents as being required to produce the intended result shall be supplied whether or not it is specifically called for. Work, materials, or equipment

described in words which so applied have a well-known technical or trade meaning shall be deemed to refer to such recognized standards. In case of conflict, the more stringent requirements shall take precedence.

Clarifications and interpretations of the Contract Documents shall be issued by the Buyer. Any clarification or directions pertaining to any materials or labor shall be brought to the attention of the Project Manager, prior to ordering or providing such.

The Contract Documents will be governed by the Laws of the State of Florida.

b. Reuse of Documents

Neither Contractor nor any subcontractor, manufacturer, fabricator, supplier, or distributor shall have or acquire any title or ownership rights in any of the Drawings, Specifications, or other documents (or copies of any thereof) prepared by or bearing the seal of the Architect. They shall not reuse any of them on extensions of the Project or any other project.

12. DEFAULT

The contract may be canceled or annulled by the Hillsborough County Sheriff's Comptroller in whole or in part by written notice of default to the awardee upon non-performance or violation of contract terms. An award may be made to the next low responsive & responsible bidder, or articles specified may be purchased on the open market similar to those so terminated. Failure of the contractor to deliver materials or services within the time stipulated in these specifications, unless extended in writing by the Comptroller, shall constitute contract default. Vendors who default on contracts may be removed from the vendor mailing lists for future contracts at the discretion of the Comptroller.

13. CANCELLATION

When deemed to be in the best interest of the Hillsborough County Sheriff's Office, any contract(s) resulting from this specification may be canceled by the following means:

- a. Ten (10) calendar days written notice with cause, or;
- b. Thirty (30) calendar days written notice without cause.

If it becomes necessary to terminate the agreement/contract without cause, all services and/or materials provided through the date of receipt of written notice of cancellation may be invoiced to the Hillsborough County Sheriff's Office and will be considered for payment providing documentation of said expenses are forwarded with the request for payment.

14. NEXT LOW PROPOSER

In the event of a default by the awarded vendor, the Hillsborough County Sheriff's Office reserves the right to utilize the next low responsive and responsible proposal as the new awardee. In the event of this occurrence, the next low responsive and responsible proposer shall be required to provide the proposal items/services at the prices as contained on their proposal for this specification for the completion of the project.

18. PARTIAL PAYMENTS

Partial billing will not be accepted. The Hillsborough County Sheriff's Office will pay 100% of the contract price after all items have been delivered and accepted. Application for final payment may be subject to a ten (10) percent retainage, which will be reimbursed upon final acceptance.

19. INSTALLATION ACCEPTANCE

Final inspection will be accomplished by the Project Manager or designated representatives. It will be determined at that time if all conditions of the service have been met. The Awardee, at that time, will have policed the surrounding building and grounds to insure a clean condition exists.

Final acceptance will be given after all inspections are satisfied and when all Work required under the Contract Documents have been satisfactorily completed, including but not limited to:

- a. All required submittals, shop drawings, test reports, warranties, guaranties, and samples have been received and verified;
- b. All operations and maintenance data have been received and verified;
- c. All quality deficiencies have been resolved and verified;
- d. All system testing and full start-up have been completed and are functioning as designed;
- e. Demobilization of the site and site clean-up are complete;
- f. Completion of as-built drawings.
- g. All releases of claims and waiver of liens duly executed and notarized have been submitted and approved;

20. WARRANTIES

- a. The Awardee will warrant all workmanship and materials for a period of no less than one (1) year from date of acceptance.
 - 1) The Contractor warrants and guarantees that all materials and equipment will be new unless otherwise specified and that all work will be of good quality, performed in a workmanlike manner, free from faults or defects, and in accordance with the requirements of the Contract Documents and any inspections, tests, or approvals referred to below. All unsatisfactory Work, all faulty Work and all Work not conforming to the requirements of the Contract Documents or such inspections, tests, approvals, or all applicable building construction and safety requirements shall be considered defective. Notice of all defects shall be given to the Contractor by the Project Manager. All defective Work, whether or not in place, may be rejected, corrected, or accepted as provided in Paragraph D below.
 - 2) If the Contract Documents, laws, ordinances, rules, regulations or order of any public authority having jurisdiction require any Work to specifically be inspected, tested, or approved by someone other than the Contractor, the Contractor will give the Project Manager

timely notice of readiness therefore. The testing firm(s) if assigned by the Sheriff's Office to this project and all such inspections, tests, or approvals provided for by the Sheriff's Office shall be identified in writing by the Project Manager to the Contractor. All other inspections, tests or approvals shall be at the Contractor's expense including additional expenses for inspection and tests required as a result of delays by the contractor or hours worked beyond 40 hours in a work week. For all required inspections, tests, and approvals on any Work prepared, performed, or assembled away from the site, the Contractor will furnish the Project Manager with the required Certificates of Inspection, testing, or approval. All such tests will be in accordance with the methods prescribed by the American Society for Testing and Materials or such other applicable organizations as may be required by law or the Contract Documents. Materials or Work in place that fail to pass acceptability tests shall be retested at the direction of the Project Manager and at the Contractor's expense. If any such Work required to be inspected, tested, or approved is covered without written approval of the Project Manager, it shall be, if requested by the Project Manager, uncovered for observation in accordance with Paragraphs 17. A) 4 and 5. The rates charged the Contractor pursuant to this paragraph shall be agreed upon in writing prior to testing.

- 3) Neither observations by the Project Manager or inspections, tests, or approvals by persons other than the Contractor shall relieve the Contractor of his obligations to perform the work in accordance with the requirements on the Contract Document.
 - 4) If any work is covered contrary to the request of the Project Manager, the Work shall, if requested by the Project Manager, be uncovered for observation and replaced at the Contractor's expense.
 - 5) If any Work has been covered which the Project Manager has not specifically requested to observe or if the Project Manager considers it necessary or advisable that covered Work be inspected or tested by other, the Contractor, by written request, will uncover, expose, or otherwise make available for observation inspection, or testing that portion of the Work in question, furnishing all necessary labor, material, and equipment. If it is found that such Work is defective, the Contractor will bear the expense of such uncovering, exposure, observation, inspection, testing, and satisfactory reconstruction. If, however, such Work is not found to be defective, the Contractor will be allowed an increase in the Contract price or an extension of the Contract Time, or both, directly attributable to such uncovering, exposure, inspection, testing, and reconstruction, if he makes a claim.
- b. When directed by the Project Manager, the Contractor will promptly, without cost to the Sheriff's Office and as specified by the Project Manager, either correct the defective Work whether fabricated, installed, or completed, or remove it from the site and replace it with non-defective Work. If the Contractor does not correct such defective Work or remove and replace such defective Work within a reasonable time, all as specified in a written notice for the Project Manager, the Sheriff's Office, after seven (7) days, may have the deficiency corrected. All direct and indirect costs of such correction shall be paid by the Contractor or deducted from payment to the Contractor. The Contractor will also bear the expense of making good all Work of others destroyed or damaged by correction, removal, or replacement of this defective work.
 - c. During the warranted period, the Awardee will restore or remove and replace warranted work to its original specified condition in the event of failure. He will restore or remove and replace other work which has been damaged by failure of warranted work, or which must be removed and replaced to

gain access to warranted work. Cost of restoration or removal and replacement is the obligation of the successful bidder. Upon restoration or removal and replacement the warranted work which has failed, Awardee will reinstate the warranty by issuing an addendum to the original warranty for at least the remaining warranted period, but for no less than half of the original warranted period.

- d. If, instead of requiring correction or removal and replacement of defective Work, the Sheriff's Office prefers to accept it, the Sheriff's Office may do so. In such case, if acceptance occurs prior to approval of final payment, a Change Order shall be executed by incorporating the necessary revisions in the Contract Documents, including an appropriate reduction in the Contract Price. If the acceptance occurs after approval, the Contractor shall pay an appropriate sum to compensate for the defect in the Work to the Sheriff's Office.

21. CERTIFICATE OF INSURANCE

The Awardee shall not commence any work in connection with this Contract until he has obtained all the following types of insurance and such insurance has been approved by the Hillsborough County Sheriff's Office, nor shall the Awardee allow any Sub-Contractor to commence work on his sub-contract until all similar insurance required of the Sub-Contractor has been so obtained and approved. All insurance policies shall be with insurers qualified and doing business in Florida.

Worker's Compensation Insurance

The Awardee shall take out and maintain during the life of this Contract, Worker's Compensation Insurance for all of his employees connected with the work of this project and, in case any work is sublet, the Awardee shall require the Sub-Contractor similarly to provide Worker's Compensation Insurance for all the Latter's employees unless such employees are covered by the protection afforded by the Awardee. Such insurance shall comply fully with the Florida Worker's Compensation Law. In case any hazardous work under this contract at the site of the project is not protected under the Worker's Compensation statute, the Awardee shall provide, and cause each Sub-Contractor to provide adequate insurance, satisfactory to the Hillsborough County Sheriff's Office, for the protection of his employees not otherwise protected.

Contractor's Public Liability and Property Damage Insurance

The Awardee shall take out and maintain during the life of this Contract, Comprehensive General Liability Insurance (including operations, completed operations, products, contractual, and owners and contractors protective liability) and Comprehensive Automobile Liability Insurance and shall protect himself from claims for damage for personal injury, including accidental death, as well as claims for property damage which may arise under operations of the Contract whether such operations be by himself or anyone directly or indirectly employed by him, and the amounts of such insurance shall be at the following minimum limits:

Comprehensive General Liability	\$300,000 bodily injury and property damage combined single limit.
Automobile	\$300,000 bodily injury and property damage combined single limit.

22. PERFORMANCE BOND AND LABOR AND MATERIAL PAYMENT BOND

Bond Requirements: The Hillsborough County Sheriff shall, prior to the execution of the Contract, require the successful Bidder to furnish bonds covering the faithful performance of the Contract and the payment

of all obligations arising thereunder in such form and amount as listed hereunder. Premiums for Bonds shall be paid by the successful Bidder.

The Surety company shall be licensed to transact surety business in Florida, shall be certified to issue the total amount of the bond on any one risk, and shall be otherwise acceptable to the Hillsborough County Sheriff's Office.

Time of Delivery and Form of Bonds: The successful Bidder shall deliver the required bonds to the Hillsborough County Sheriff no later than the date of execution of the Contract.

"Performance and Payment Bond" shall be for 100% of the Contract sum in behalf of the Hillsborough County Sheriff. The bonds shall be written on the Surety company's standard form.

The successful Bidder shall require the Attorney-In-Fact who executes the required bonds on behalf of the Surety company to affix to the bond a certified and current copy of his Power of Attorney, indicating monetary limit of such power.

Alternative Forms of Security: In lieu of the bond required by this section, the successful Bidder may file with the Hillsborough County Sheriff's Office, an alternative form of security which shall be in the form of cash, money order, certified check, cashier's check, or irrevocable letter of credit. Such alternative forms of security shall be for the same purpose and shall be subject to the same conditions as those applicable to the bond required by this section. The determination of the value of such alternative forms of security shall be made by the Hillsborough County Sheriff's Office.

Release of Bonds: Bonds will be released after all conditions of the contract have been met, final acceptance has been given and all inspections have been satisfied and a statement of warranty and release of lien has been issued.

23. INDEMNIFICATION

The contractor will indemnify and hold harmless the Sheriff's Office and its employees and agents from and against all liabilities, claims, damages, losses, and expenses, including attorneys' fees arising out of or resulting from the performance of its Work, provided that any such liability, claim, damage, loss or expense (a) is attributable to bodily injury, sickness, disease or death, or injury to or destruction of tangible property (other than the Work itself), including the loss of use resulting therefrom and (b) is cause in whole or in part by an act or omission 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, whether or not it is caused in whole or in part by a party indemnified hereunder.

In any and all claims against the Sheriff's Office 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 workmen's compensation acts, disability benefit acts, or other employee benefit acts.

The Contractor will indemnify and hold harmless the Sheriff's Office and anyone directly or indirectly employed by it from and against all claims, damages, losses, and expenses (including attorney's fees) arising

out of any infringement of patent rights of copyrights held by others and shall defend all such claims in connection with any alleged infringement of such rights.

24. CONTRACTOR'S RESPONSIBILITIES

- a. Examination of Site: Bidders shall visit the site and familiarize themselves with existing conditions and satisfy themselves as to the nature and scope of the work required. Site visitation should take place during the pre-proposal conference. The submission of a proposal will be construed as evidence that such an examination has been made. Any materials and/or labor, not reflected in the drawings or specifications, required for completion of the work, shall be submitted with the proposal. Later claims for labor, equipment or materials required, will not be allowed.
- b. Measurements and Dimensions: Before ordering materials or doing work which is dependent for proper size, or installation upon coordination with site conditions, the Bidder shall verify all dimensions at the site and shall be responsible for the correctness of same. No consideration will be given any claim based on the difference between the actual dimensions and those indicated on the drawings. Any discrepancies between the drawings and/or specifications and the existing conditions shall be referred to the owner for adjustments before any work is commenced.
- c. Errors or Omissions in Plans or Specifications: The Contractor shall take no advantage of any apparent error or omission which he might discover in the plans or specifications but shall forthwith notify the owner of such discovery, who will then make such corrections and interpretations as he deems necessary for reflecting the actual spirit and intent of the plans and specifications.
- d. Permits, Fees and Notices: The contractor shall secure and pay all applicable permits, Governmental fees and licenses necessary for the proper execution of the project/work.

The contractor shall give notice(s) and comply with all applicable laws, ordinances, rules, codes and regulations which have bearing on the performance of work related to this project. He shall assume full responsibility therefore and bear all costs attributable thereto.

- e. Supervision and Superintendence: The Contractor will supervise and direct the Work efficiently and with his best skill and attention. He will be solely responsible for the means, methods, techniques, sequences, and procedures of installation unless specifically addressed in the Contract Documents. The Contractor will be responsible for seeing that the finished Work complies accurately with the Contract Documents. The Contractor will cooperate with and be responsible for coordination of the Work with other contractors and/or utilities at the site.

The Contractor will keep on the Work at all times during its progress a competent supervisor who shall not be replaced without written notice to the Project Manager except under extraordinary circumstances. The supervisor will be the Contractor's representative at the site and shall have authority to act on behalf of the Contractor. All communications given to the supervisor shall be as binding as if given to the Contractor.

- f. Labor, Materials, and Equipment: The contractor will provide and pay for competent, suitable, qualified personnel to survey and lay out the Work and perform installation as required by the Contract Documents. He will at all times maintain good discipline and order on the site.

The Contractor will furnish and pay for all materials, equipment, labor, transportation, and machinery, tools, and incidentals whether temporary or permanent necessary for the execution, testing, initial operation, and completion of the Work as required by the Contract Documents.

All materials and equipment will be new and of good quality, except as otherwise provided in the Contract Documents. If required by the Buyer, the Contractor will furnish satisfactory evidence as to the kind and quality of materials and equipment.

All materials and equipment shall be applied, installed, connected, cleaned, and conditioned in accordance with the instructions of the applicable manufacturer, fabricator, or processors, except as otherwise provided in the Contract Documents.

- g. Substitute Materials or Equipment: If the Contractor wishes to furnish or use a proposed substitute, he will, after the award of the Contract, make written application to the Project Manager for approval of such substitute, certifying in writing that the proposed substitute will perform adequately the duties imposed by the general design, be similar and of equal substance or quality to that specified, and be suited to the same use and capable of performing the same function as that specified. No substitute shall be ordered or installed without the prior written approval of the Project Manager, who shall be the sole judge of acceptability. The application will also contain an itemized estimate of all costs that will result directly or indirectly from acceptance of such substitute, including costs of redesign, delays and claims of other Contractors affected by the resulting change, all of which shall be considered by the Sheriff's Office in evaluating the proposed substitute. Approval of any change in costs or schedule as result of acceptance of the substitute by the Sheriff's Office will be by Change Order.
- h. Concerning Subcontractors: The Contractor will be fully responsible for all acts and omissions of his subcontractors and of persons directly or indirectly employed by them and of persons for whose acts any of them may be liable to the same extent as if they were employed by him. Nothing in the Contract Documents shall create any contractual relationship between any subcontractor and the Sheriff's Office or any obligation on the part of the Sheriff's Office to pay or to see to the payment of any monies due any subcontractor, except as may otherwise be required by law. The Sheriff's Office may furnish to any subcontractor, to the extent practicable, evidence of amounts paid to the Contractor for specific Work done.

The divisions and sections of the Specifications and the identifications of any Drawings shall not control the Contractor in dividing Work among subcontractors or delineating the Work to be performed by any specific trade.

The Contractor agrees to bind specifically every subcontractor to the applicable terms and conditions of the Contract Documents for the benefit of the Sheriff's Office.

All work performed for the Contractor by a subcontractor shall be pursuant to an appropriate written agreement between the Contractor and the subcontractor which shall contain provisions that waive all rights the contracting parties may have against one another for damages caused by fire or other perils covered by insurance, except such rights as they may have to the proceeds of such insurance held by the Sheriff's Office as trustee. The Contractor will pay each subcontractor an appropriate amount determined by value of the Work, of any insurance monies received by the Contractor under this insurance.

- i. Patent Fees and Royalties: The Contractor will pay all license fees and royalties and assume all costs incident to the use of any invention, design, process, or device which is the subject of patent rights or copyrights held by others.
- j. Laws and Regulations: The Contractor will give notices and comply with all laws, ordinances, rules, codes and regulations applicable to the Work. If the Contractor observes that any of the Contract Documents are contradictory to such laws, rules, and regulations, he will notify the Sheriff's Office promptly in writing. Any necessary changes will then be adjusted by an appropriate Change Order. If the Contractor performs any Work that it knows or should have known to the contrary of such laws, ordinances, rules, codes, and regulations and without such notice to the Sheriff's Office, he will bear all related costs.
- k. Use of Premises: The Contractor will confine his equipment, the storage of materials and equipment, and the operations of his workers to the areas permitted by law, ordinances, permits, or the requirement of the Contract Documents. He shall not unreasonably encumber the premises with materials and equipment. Any loss or damage to the Contractor's or any subcontractor's equipment is solely at the risk of the Contractor.

The Contractor shall not load nor permit any part of any structure to be loaded in any manner that will endanger the structure, nor shall the Contractor subject any part of the Work or adjacent property to stresses or pressures that will endanger them.

- l. The Contractor will be responsible for initiating, maintaining, and supervising all safety precautions and programs in connection with the Work. He will take all necessary precautions for the safety of an will provide necessary protection to prevent damage, injury, or loss to:

All employees on the Work and other persons who may be affected by it;

All the Work and all materials or equipment to be incorporated, whether in storage on or off the site.

The Contractor will comply with all applicable laws, ordinances, rules, codes regulations, and orders of any public body having jurisdiction for the safety of persons or property or to protect them from damage, injury, or loss. Contractor will erect and maintain, as required by the conditions and progress of the Work, all necessary safeguards for safety and protection. All damage, injury, or loss to any property caused directly or indirectly, in whole or in part by the Contractor, any subcontractor, anyone directly or indirectly employed by any of them, or anyone for whose acts any of them may be liable will be remedied by the Contractor.

- m. Emergencies: In emergencies affecting the safety of persons, the Work or property at the site or adjacent thereto, the Contractor, without special instructions or authorization from the Project Manager if time or circumstances do not permit, is obligated to prevent threatened damage, injury, or loss. Contractor will give the Project Manager written notice that the emergency provision has been invoked and shall state the reasons therefore within twenty four (24) hours of the incident. If the Contractor believes the emergency resulted in additional Work, a claim for a Change Order is permissible.

The Contractor shall immediately notify the Project Manager of all events involving personal injuries to any person on the site, whether or not such person was engaged in the installation of the Project,

and shall file a written report on such person(s) and any other event resulting in property damage of any amount within five (5) days of the occurrence.

- n. Cleaning Up: The Contractor will maintain the premises from accumulations of waste materials, rubbish, and other debris resulting from the Work on a daily basis or as required. At the completion of the Work, he will remove all waste materials, rubbish and debris from the premises as well as all tools, construction equipment and machinery, and surplus materials and will leave the site clean and ready for occupancy by the Sheriff's Office. In addition to any other rights available to the Sheriff's Office under this Contract, the Contractor's failure to maintain the site may result in withholding of any amounts due Contractor. The Contractor will restore to original condition those portions of the site not designated for alteration by the Contract Documents.

25. OWNER'S RESPONSIBILITIES

- a. The Sheriff's Office shall issue all communications to the Contractor through the Project Manager except for authorization required by Change Order pursuant to this Contract.
- b. The Sheriff's Office shall provide existing drawings or information as required.
- c. The Sheriff's Office shall furnish the data required under the Contract Documents and shall make payments to the Contractor when due as provided in Paragraph 16.

In connection with the Sheriff's request for changes in the Work, the Sheriff's Office Comptroller shall execute the appropriate Change Orders for such changes upon approval by the Project Manager.

- d. Except as provided herein, the Sheriff's Office will not provide any other labor or materials to accomplish this work.
- e. The Sheriff's Office will be responsible for the removal of the existing microwave sensing equipment, which is to be replaced by this new system.

26. WORK BY OTHERS

The Sheriff's Office may perform additional work related to the Project with its own forces or may let other direct contracts. The Contractor will provide the other contractors who are parties to such direct contracts, including but not limited to the other contractors, employees, agents, subcontractors and suppliers (or the Sheriff's Office forces performing the additional work), reasonable opportunity for the introduction and storage of materials and equipment and the execution of Work, and shall properly connect and coordinate his Work with theirs. The Contractor is not entitled to exclusive use of the site.

If any part of the Contractor's Work depends (for proper execution or results) upon the work of any such other contractor (or the Sheriff's Office staff), the Contractor will inspect and promptly report to the Project Manager in writing of any defects or deficiencies in such work that render it unsuitable for such proper execution and results. Contractor's failure to report shall constitute an acceptance of the other work, except as to defects and deficiencies which may appear in the other work after the execution of his Work. Contractor shall be entitled to extension of time, but not to damages or additional compensation related to delay caused by such other contractor.

The Contractor will do all cutting, fitting, and patching of his Work that may be required to make its several parts come together properly, and fit it to receive or be received by such other work. The Contractor will not endanger any work of others by cutting, excavating, or otherwise altering such other work and will only cut or alter such other work with the written consent of the Project Manager, and if such alteration will not increase the cost or time of the Contract.

If the performance of additional work by other contractors or the Sheriff's Office is not noted in the Contract Documents prior to the execution of the contract, written notice shall be given to the Contractor prior to starting any such additional work. If the Contractor believes that the performance of such additional work by the Sheriff's Office or others involves additional expense or entitles him to an extension of the Contract Time, he may make a claim.

27. EXCEPTIONS TO PROPOSAL

All bid submittals must clearly state with specific detail all deviations to the requirements imposed upon the Bidder by the General Terms and Provisions (Part A), the Special Provisions (Part B) and the Technical Specifications (Part C). Such deviations should be stated upon the Proposal Response (Part D) or appended thereto. Bidders are hereby advised that the Hillsborough County Sheriff will only consider proposals that meet the specifications and other requirements imposed upon them by this proposal package. In instances, where an exception is stated upon the Proposal Response (Part D), said proposal will be subject to rejection by the Hillsborough County Sheriff in recognition of the fact that said bid proposal does not meet the exact requirements imposed upon the Bidder by the General Terms and Provisions (Part A), the Special Provisions (Part B) and the Technical Specifications (Part C).

PART C - TECHNICAL SPECIFICATIONS

1. GENERAL

The purpose of these specifications is to describe the Hillsborough County Sheriff's Office minimum requirements for the installation of an integrated fiber optic perimeter intrusion system. Integration with the existing closed circuit camera and television (CCTV) system is a crucial part of this application. The intent of the integration is the reaction of the CCTV system to focus on the area where motion sensing takes place. A combination of perimeter fence, buried and wall mounted detection systems using fiber optic intrusion detection sensors integrating with existing system components creating a seamless high quality security system is envisioned. This system installation will take place at the Falkenburg Road Jail Complex located at 520 N Falkenburg Road, Tampa, Florida. Contractor is to design, furnish, install and test a complete functioning system according to these specifications and the proposal response thereto. This project includes all materials, equipment, system design, and labor for a complete turnkey project.

2. SYSTEM DESCRIPTION

The system shall be suitable for outdoor intrusion detection with the following key characteristics:

- ! The sensor may be installed on fencing, buried under graded or sod, or placed on a wall to detect trespass by detection of motion, vibration, or changes in pressure due to the activity of an intruder.
- ! The sensor shall consist of a fiber-optic cable to provide operational immunity from lightning, EMI, and RF radiation and to reduce the possibility of nuisance alarms from those sources.
- ! The sensor must provide uniform detection along the entire length of fencing.
- ! Each sensor shall have an individual and independent alarm processor, which can be programmed to maximize detection on the structure for which it is to be used while minimizing the nuisance of alarms due to wind, weather, or seismic disturbances.

3. SYSTEM COMPONENTS

Alarm processor shall be capable, at a minimum, as follows:

- ! Qualifies an intrusion signal from the sensor in the frequency, time and amplitude domains and provides the ability to detect nuisance signals based on frequency rejection, signal duration, and wind speed.
- ! Provides installation and maintenance monitoring of the system's light loss, voltage supply, and light source with a fault indicator of levels that are out of operational specification.
- ! Able to operate from a supply voltage of 12 to 24 volts DC with a power requirement of less than 3 watts.
- ! Provides an RS-232C interface to access a password protected calibration menu and alarm, fault, tamper signal outputs for local or remote connection using the sensor network interconnection. The contractor is expected to provide a software management system to specifically control this system. The software will be installed on a stand alone personal computer provided by the Sheriff Office.

This unit will be a Dell G1, with an Intel Celeron 333 MHz processor, 64 mg RAM, 4G hard drive, and Windows 95 operating system.

- ! Provides a normally open, normally closed form “C” contact closure pair for output of alarm, tamper, and fault signals.
- ! Provides an optional ability to send and receive light to the sensing cable with insensitive fiber optic leads so that the electronics may be housed remotely for the zone.

4. SENSING CABLE REQUIREMENTS

- ! Shall be composed of multimode optic fiber that may be field connectorized with ST-style, crimp-on connectors without the use of epoxies or heat curing.
- ! The jacket shall be composed of a UV resistant, flame retardent exterior grade polyurethane material. The cable shall be reinforced with aramid yarn to provide minimum pull strength of 60 pounds; and it shall have a minimum crush resistance in excess of 800 N/cm.
- ! Repair of the cable and fiber shall be possible with the use of two crimp-on connectors and feed through coupler.
- ! The cable shall withstand operational temperature of -55° C to +85° C.
- ! The sensing cable must be supplied by the sensor manufacturer to ensure optical compatibility and system performance.

5. FIBER-OPTIC CONNECTORS

All connectors shall be industry standard ST connectors with ceramic ferules. All connectors shall have a factory rated insertion loss of less than 0.5 dBs.

6. INSTALLATION REQUIREMENTS

- ! Installation on fence and walls shall be executed using flexible conduit to facilitate easy deployment on gates and corner posts. The conduit shall be UV resistant for long outdoor life. The conduit shall be split along its entire engh to allow easy insertion of long lengths of sensing cable to speed installation and future repairs. Conduit expansion joints shall be used approximately every 100 feet to ensure reliable contraction and expansion of the conduit over the operational temperature range of the system.
- ! Installation in gravel or under sod shall be executed using direct burial cable in PVC conduit which is unaffected by water or soil conditions.
- ! The contractor must provide 120 volt power source for equipment as required. The system shall be tied into emergency power sources in all locations, as it is required that this system be operational even in the event of an emergency. 120 Volt power is available at each pole light location throughout the facility.

7. SYSTEM REQUIREMENTS

The perimeter protection system shall be capable, at a minimum, as follows:

- ! The system shall be capable of expanding to provide up to 100 programmable zones of protection. Provide proposal on ideal number of zones to provide maximum coverage and protection of perimeter fence protection and two (2) zones for existing gates.
- ! The system status shall be displayed via graphic interface.
- ! Upon alarm, the system will give audible notification, display point of intrusion on the graphic interface, call up a camera or salvo of cameras on a designated display, and allow person responding to the alarm to make a log entry in the system.
- ! System will be capable of archiving historical information, and providing activity reports as required.

8. CONTRACTOR QUALIFICATIONS

In addition to the requirement of Part B, Paragraph 24, the awarded contractor, and his subcontractors, must comply, at a minimum, as follows:

- ! Possess all licenses required to operate within the State of Florida and Hillsborough County.
- ! Possess the required State certification to perform the function of contractor on proposed project.
- ! Provide certifiable evidence of projects completed of similar type and dollar value.
- ! Provide evidence of certification from manufacturer, or other authorized agency stating that contractor is certified to install proposed new system and service all existing equipment components creating the total system.
- ! Provide 24/7 service on all system components by certified technicians. Response time to be four (4) hours or less.

9. CABLE/CONDUIT INSTALLATION

Contractor will install all necessary cabling required for operation of the fiber intrusion system, in accordance with the NEC, NESC, and with all local and state codes, ordinances, and regulations.

Contractor will submit conduit/wiring diagrams for all systems specified in this document showing required conduits and junction boxes along with types and quantities of cables to be used and cable identification tags.

10. PROJECT CONDITIONS

Contractor will provide management services to properly supervise, direct and manage all installation crews, craftsmen, skilled and unskilled labor, and sub-contractors (if any) to ensure that contracted schedules are met and that all work is performed according to these specifications. Bidder will provide copies of all valid current certifications and/or licenses if said documentation is required for any phase of the project.

Contractor will provide "as built" drawings and design information suitable for maintenance and inspections.

Drawings should include but not be limited to:

- a. Control wiring, electrical, and conduit.
- b. All wiring shall be numbered and labeled on the actual cables and on the diagrams. The cable numbers shall also be included in a log which shall be presented to the Owner.
- c. Material properties.

11. CODES AND COMPLIANCE

All equipment proposed shall comply with:

- a. National Electric Code
- b. National Electrical Safety Code
- c. Underwriter's Laboratories, Inc.
- d. Federal Communications Commission Rules and Regulations; 47CFR Code of Federal Regulations
- e. Society of Cable Television Engineers
- f. Electronics Industries Association
- g. ANSI/EIA/TIA 250-C-1989
- h. ANSI Standard C62.61-1985
- i. ANSI/UL Standard 497-78
- j. IEEE Standard C62.1-1984
- k. IEEE Standard C62.31-1984
- l. IEEE Standard C62.32-1981
- m. IEEE Standard C62.33-1982
- n. ANSI/IEEE C62.41-1980 (Former, IEEE Std 587-1980), Guide for Surge Voltages in Low Voltage AC Power Circuits
- o. ANSI/IEEE Standard 81-1983, Guide for Measuring Earth Resistivity, Ground Impedance, and Earth Surface Potentials for of a Ground System
- p. Occupational Safety and Health Act of 1967

q. Interstate Commerce Commission

8. LATEST STANDARDS

Reference to specific Standards, manuals or codes, or FCC Rules, shall be interpreted by the bidder to mean the latest version of that reference or the rule, code or specification in effect at the time of receipt of this bid.

9. SOLID-STATE

All electronics shall be solid state except where specifically approved. All components used must be new; no used or surplus materials are permitted other than equipment from Owner's OFE list. No component will be operated higher than the manufacturer's rating.

10. SAFETY

Cabinets and enclosures will be designed to protect personnel from hazards.

11. SERVICEABILITY

Equipment shall be designed and constructed for ready access for operation, adjustment, calibration, monitoring, repair, replacement, and/or overhaul. Sub-assemblies are required where possible, and shall be mechanically secured in place to prevent being dislodged during shock and vibration.

12. WIRING PRACTICES

Where specific instructions are not given, perform all wiring in strict adherence to standard broadcast and sound engineering practices in accordance with the following references:

- a. Broadcast Audio Equipment for AM, FM, Television "Recommended Wiring Practices"
- b. Group all wiring into the following classifications by power level or signal type:
 - (1) Video/RF circuits.
 - (2) AC power circuits.
- c. Separate wiring of differing classifications by at least six (6) inches, wherever possible. Wherever lines of differing classification must come closer than six (6) inches, cross them perpendicular to each other.
- d. Neatly harness wires together within racks by power level classification using horizontal and vertical wiring supports as required. Rigidly support all wires within six (6) inches of connection points.
- e. Exercise care in wiring to avoid damaging the cables and equipment. Use grommets around cut-outs and knock-outs where conduit or chase nipples are not installed.
- f. Cut off unused wire ends approximately one-half inch (1/2") past the wire jacket. Fold them back over the jacket, and secure in place with heat-shrink tubing.

- g. All cables shall originate and terminate at active or passive devices. **Do not** splice wire or cables under any circumstance.
- h. All cables terminated in a connection plate mounted in an enclosure shall be dressed so as to allow removal from the enclosure and sufficient cable length for service or retermination. Plate shall set on floor or swing freely.
- i. Splices in any cable-baseband or RF- are not acceptable, except in cases of difficult "pulls", by prior written approval only.
- j. All coaxial connectors shall be crimped with the appropriate hexagonal die crimp tool correct for the combination of cable and connector. Separate round ferrule connectors will not be acceptable.
- k. The bend radius for all cables shall conform to manufacturer's specifications.

13. LABELING

- a. Label products in a logical, legible, and permanent manner corresponding to the Drawings. Wording, format, style, color, and arrangement of text will be subject to the Sheriff's Office approval. Labeling will be verified at final testing and acceptance.
- b. Label all wall plates, control receptacles, and connector mounting plates for input and output using one-eighth inch (1/8") engraved lettering filled with black paint.
- c. Use engraved plastic labels similar to Lamicoid, squarely and permanently attached, to label the following:
 - (1) Patch panel designation strips (if applicable).
 - (2) Front and back of all rack-mounted equipment including controls.
 - (3) Barrier strips, terminals, transformers, switches, relays, volume controls, and similar devices.
 - (4) Label pushbutton switches with engraved lettering filled with contrasting color paint.
 - (5) Label all permanently installed wires on both ends with approved permanent sleeve type markers. Wrap-around adhesive labels will not be accepted unless completely covered with clear heat shrink tubing.
 - (6) Label all portable equipment with engraved block letters using initials and/or words. Label all portable cables similarly with printed heat-shrinkable tags located 12 inches from the male connector end. Verify lettering through the Sheriff's Office designated representative prior to engraving or printing.
 - (7) Cable Markers. Permanent labels corresponding to the drawings affixed to all cables. Approved products:
 - i. Telecrafter Products
 - Small cables, Series 100

- Large cables, Series 300A using a fine point, acid based, indelible ink marker or Series 100.
- Approved Equal.

(8) Heat Shrink Tubing. Approved products:

- i. Ray Chem
- ii. Remtek
- iii. Panduit
- iv. Approved Equal

14. MISCELLANEOUS CONNECTORS

a. Certain connectors not identified in specific paragraphs, or indicated on the drawings, are specified by generic "type". Refer to the cross-reference chart below for approved products. Asterisks indicated number of pins or sockets. At all times, match connector types properly used in other areas of the project, including existing sound, television, and audio/visual systems.

<u>TYPE:</u>	<u>SWITCHCRAFT</u>	<u>NEUTRIK</u>	<u>CANNON</u>	<u>CANARE</u>
<u>D(*)F</u>	<u>D(*)F</u>	<u>NC(*)FP</u>	<u> </u>	<u> </u>
<u>D(*)M</u>	<u>D(*)M</u>	<u>NC(*)MP</u>	<u> </u>	<u> </u>
<u>TRS-F</u>	<u>121</u>	<u> </u>	<u> </u>	<u> </u>
<u>TRS-M</u>	<u>280</u>	<u>NC3C-BAG</u>	<u> </u>	<u> </u>
<u>TRS-FJ</u>	<u>14B</u>	<u>NJ3FP6C-B</u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u>AG</u>	<u> </u>	<u> </u>
<u>S4FC</u>	<u> </u>	<u>NL4FC</u>	<u> </u>	<u> </u>
<u>S4MP</u>	<u> </u>	<u>NL4MP</u>	<u> </u>	<u> </u>
<u>BNC</u>	<u> </u>	<u> </u>	<u> </u>	<u>BCJ-R</u>
<u>BNCL</u>	<u> </u>	<u> </u>	<u> </u>	<u>BCP-S4</u>
<u>BNC-R</u>	<u> </u>	<u> </u>	<u> </u>	<u>BCJ-RU</u>

b. Precision BNC connectors general requirements: Dual hex crimp, fully ratcheted tool applied, gold captive pin connectors sized specifically for the cable employed on the project. Dual hex crimp for Precision Video cable and Precision Miniature Video cable for standard cables to be Kings KC59-299 or Amphenol 31-71032 and KC59-397 Or Amphenol 31-71008-1000 respectively. Verify compatibility with Approved cables. Submit manufacturer's termination instructions specific to the exact project cable type for approval. Submit fully labeled and tagged, terminated cable samples for all types of connectors employed on the project.

Approved Manufacturers:

- (1) Kings
- (2) Amphenol
- (3) Canare

c. Precision BNC Video terminators, 75 ohm. Video terminators to be 0.1 percent laser trimmed metal film resistor sealed into a Kings 758-5-9 BNC body.

Approved Manufacturers:

- (1) Hedco B7501LP

(2) Approved equal

d. **Video Baseband Cable** (as required). Precision Miniature 75 ohm coaxial cable for rack or console video interconnections under forty(40) feet and BNC Longitudinal Time Code connections. Use red, green, blue, and orange insulation colors to code RGBS circuits respectively. Cable to be NEC rated for Class CL2 or higher.

(1) **Center Conductor:** The center conductor shall be 100 percent stranded copper, not copper covered steel, and maintain a low DC resistance. Cable shall be RG-6 type with stranded 100 percent copper center conductor.

(2) **Shield:** The shield shall have high physical coverage-with a minimum physical braid coverage of 90 percent or more to protect against electromagnetic interference. Shielding shall be solid-copper braid shielding.

(3) **Cable Jacket:** Cable shall be PVC-jacketed for indoor wiring use except in the case of installation in plenums, air ducts, or air returns when not enclosed metal conduit. All cable not encased in metal conduit in these areas or any other false-ceiling air-plenum areas shall be NEC-approved Teflon jacketed cable.

Approved Products:

- i. Belden 8279A
- ii. Belden 8281B
- iii. Gepco VPM618
- iv. Gepco VP618
- v. Approved equal

15. MISCELLANEOUS WIRE AND CABLE

a. Wire and cable not identified in specific paragraphs above, or on the drawings, is specified by generic "type". Refer to the cross-reference chart below for approved products, or specific specification paragraphs. At all times, cable must be NEC rated for the application.

<u>USE</u>	<u>WIRE TYPE</u>	<u>BELDEN</u>	<u>WEST PENN</u>	<u>GEPCO</u>	<u>CANARE</u>
VIDEO	_____	8281	P806	_____	LV-77S
DC CONTROL	_____	_____	_____	_____	_____
GENERAL/TOUCH PANEL	#18 _____	9918	117	_____	_____
POWER FEED	#14 _____	8916	119	_____	_____
CONTACTOR CONTROL CABLE					
In Rack	#14 _____	8916	119	_____	_____
Between Racks	#12 THHN _____	_____	_____	_____	_____
Data RS-422, RS-232	4 pr#22/2/sh _____	_____	_____	_____	_____

16. RACKS, ENCLOSURES, MILLWORK, SUPPLIES AND HARDWARE

- a. Equipment racks and accessories. Multi-racks constructed of 16-gauge or heavier cold-rolled steel and bolted together side-by-side. Provide top and side panels as required and locking rear doors for each rack. Provide rear mounting rails and an extra set of front mounting rails for recessed equipment.

Provide shelves as required for mounting equipment within racks. Fill unused mounting spaces with blank panels to fully enclose the rack assembly. Finish entire rack assembly in semi-gloss black paint.

Install a copper bar ground buss of substantial cross section ("00 or larger) in each rack, insulated from the rack except at one point. Ground any equipment chassis without a three-conductor power receptacle ground contact to this buss bar with #10 copper wire. Tie each and every power receptacle ground contact to this buss bar with #10 copper wire. Common the ground buss bars to each other with #2 copper wire and to an isolated ground. Connect racks with insulated copper wire to ground system.

Interconnecting signal cables shall be routed from junction boxes through metallic flexible conduit(s) (1"-2" diameter) as appropriate; flexible conduit shall be insulated from racks by approved insulating bushings.

- b. Grounding and Shielding

Mount and enclose all electrical and electronic equipment in metal enclosures, pedestals, or equipment racks.

- (1) Use NEC liquid tight flexible type conduit for all wiring outside of equipment racks except plenum rated wiring above a lay-in ceiling, and outdoor conduits and raceways, where separate insulated ground wiring shall be supplied.
- (2) Use flexible conduits and PVC fittings to provide insulated connections of electrical raceways to equipment racks. Mount all equipment racks at the job site in a manner which provides electrical isolation from the structure and electrical raceways.
- (3) Vertically install an isolated ground buss in each equipment rack. Bond the rack frame, side panels, and doors to the ground buss. Isolate the racks from incidental grounds through raised floors, conductive paint, conductive carpet, and other un-intended earths.
- (4) Ground the chassis of all rack mounted components to permit a DC resistance between each chassis and the rack ground buss of no more than 0.1 ohms.
- (5) Ground shields of interconnecting wires on one end only and serve the opposite ends as described under Wiring Practices.
- (6) At all times during installation, maintain a monitoring system with audible alarm, on the technical ground system to alert installation technicians of the failure of the isolated ground

system. Cease installation until the source of the ground isolation failure is located and rectified.

Failure to check the isolation of the grounding system prior to commencing this installation activity shall not relieve the Contractor from the responsibility of delivering to the Sheriff's Office a fully functional system, including correctly isolated grounding systems, nor will the Sheriff's Office consider claims arising from the failure of the Contractor to verify the performance of the isolated ground system prior to the Contractor's installation activities, or the cost of correction of isolated grounds provided by others.

Equipment and areas requiring frequent or ready access, shall have plates or covers provided with quick-acting captive fasteners. The fasteners must not require special tools for operation and shall be hand operated. Protective treatment, chemical, and/or mechanical shall be applied to the fasteners to ensure ease of operation under all environmental conditions.

Provide service loops on all cables where maintenance access is needed, including slide mounted equipment.

Provide slides for all equipment requiring service adjustment access, and picture monitors over twenty (20) pounds.

17. FIELD QUALITY CONTROL TESTS

The Contractor shall maintain a competent supervisor and supporting technical personnel, acceptable to the Sheriff's Office during the entire installation. Change of supervisor during the project shall not be acceptable without prior written approval from the Sheriff's office.

Before connecting any equipment to AC power outlets, measure and record the AC voltages between hot, neutral, and ground and verify correct polarity of AC power. Verify, test, and document correct and safe function of isolated ground power systems.

Upon completion of the system installation, it shall be the responsibility of the Contractor to perform the necessary adjustments and balancing of all signals and amplifier gain, slope, and other level controls to ensure proper system operation. The system shall be physically inspected by the Sheriff's Designated representative to assure that the equipment is installed in a neat and workmanlike manner as called for by the plans and specifications.

Other responsibilities of the Contractor in regard to Quality Control testing are:

- a. Determine the proper sequence of energizing systems to minimize the risk of damage.
- b. After successfully energizing the systems, make all preliminary adjustments and document the setting of all controls, parameters of all corrective networks, voltages at key system interconnection points, gains and losses, as applicable. Tabulate all data along with an inventory of test equipment, a description of testing conditions, and a list of test personnel as itemized below. Copies of preliminary test data shall accompany copies of performance testing data as part of the final submittal.
- c. Verify the performance parameters of the individual systems following established professional procedures, in addition to those specified herein.

18. TEST REPORT

Document all acceptance testing, calibration and correction procedures described herein:

- a. Performance date of the given procedure.
- b. Condition of performance of procedure.
- c. Type of procedure, and description.
- d. Parameters measured and their values, including values measured prior to calibration or correction, as applicable.
- e. Parameters associated with calibration or corrective networks, components, or devices.
- f. The names of personnel conducting the procedure.
- g. The equipment used to conduct the procedure.

Check all paths and outlets for appropriate compliance with the Performance Standards.

19. TESTING, VIDEO SYSTEMS

Verify performance of all video connecting cables, as specified herein:

- a. **VIDEO (SIGNAL)**
 - (1) S/N (peak to RMS), unweighted, DC to 4.2MHz: 55dB minimum.
 - (2) Crosstalk, unweighted, DC to 4.2MHz: 45dB minimum.
 - (3) Frequency response: +0.5dB to 4.2MHz.
 - (4) Line and Field tilt: 2 percent maximum.
 - (5) Differential Gain: 2 degrees maximum.
 - (6) Signal Level: within plus or minus 0.5dB.
- b. **VIDEO (TIMING)**
 - (1) System timing: Sync coincidence within 20 nanoseconds.
 - (2) Color timing: Within ½ degree at 3.58MHz.
 - (3) System shall conform to RS-170A standards.

c. **SYSTEM TIMING**

- (1) All video signals shall be in time as specified above.
- (2) Upon completion of the system installation, it shall be the responsibility of the Contractor to perform the necessary adjustments and balancing of all signals and amplifier gain controls to ensure proper system operation.

d. **REPORT**

Upon completion of initial tests and adjustments, submit written report of tests to the Sheriff's Office along with all documents, diagrams, and record drawings required herein. Report shall include date of each test, pertinent conditions such as control settings, etc., test circuit, and test equipment employed. In addition, submit written notification that the installation has been completed in accordance with the requirements of the Contract Documents, and is ready for acceptance testing.

20. **TEST EQUIPMENT**

Provide the following test equipment on site during construction and available to the Sheriff's designated representative during final adjustment and acceptance testing:

- a. Dual-trace oscilloscope - 100MHz bandwidth, 1 mV/cm sensitivity, TV sync separator and delayed trigger circuit. Acceptable: Tektronix 2247A.
- b. Multimeter- Measurement range, DC to 20,000 Hz, 100mV to 300 V, 10ma to 10A. Acceptable: Fluke 75 or as approved.
- c. NTSC Television generator. Acceptable: Tektronix TSG-170A or as approved.
- d. NTSC Television Waveform/Vectorscope. Acceptable: Tektronix 1750 or as approved.

21. **FINAL ADJUSTMENT AND EQUALIZATION**

The Contractor shall schedule a time for the Final Adjustment and Equalization. The Sheriff's Office will be notified at least seven (7) days in advance.

Furnish a technician who is familiar with the system to assist the Sheriff's designated representative during the final Adjustment and Equalization.

System acceptance tests shall employ approved test equipment to be provided by the Contractor. Record final settings on all equipment and submit with contract closeout documents.

22. **CLEANUP**

Remove all unnecessary tools and equipment, unused materials, packing materials, and debris from each area where Work has been completed unless designated for storage.

Clean all areas around system equipment and be sure that the inside of each equipment rack is free of wire strippings and other debris.

23. MANUALS

Three (3) sets of hard back 3-ring binders containing all bulletins, operation and maintenance instructions, parts lists and other pertinent information for all of the equipment furnished shall be provided prior to final acceptance of installation. The manuals shall include a list of the manufacturer's recommended spare parts.

24. DEMONSTRATION AND TRAINING

This proposal shall detail the training which the Contractor will provide upon completion of his bid. Training shall take place for at least the minimum number of hours and at the site specified in these contract documents. Training shall include hands on experience for the Sheriff's operation and maintenance personnel for hardware and software components of each system.

Furnish a technician who is qualified to operate and maintain the systems specified in this Section to instruct the Sheriff's designated personnel regarding the design features and proper operation of the systems. Training shall include a minimum of twenty (20) hours of hands on instruction.

If requested by the Sheriff's Office, furnish the same technician/trainer during the first formal use of each system to further instruct and assist Sheriff's Office personnel in system operation.

Upon completion of the Project, the Sheriff's Office may elect to verify test data as part of the acceptance procedure. Provide personnel and equipment, at the convenience of the Sheriff's Office, to reasonably demonstrate system performance and to assist with such tests without additional cost to the Sheriff's Office.

25. FINAL PROCEDURES

Perform any and all remedial work to correct inadequate performance or unacceptable conditions of, or relating to any of this work, as determined by the Sheriff's Office, at no additional expense to the Sheriff's Office.

Furnish all portable equipment to the Sheriff's Office along with complete documentation of the materials presented. All portable equipment shall be presented in the original manufacturer's packing, complete with all included instructions and miscellaneous manuals and documents.

Present, review and clarify all materials to the Sheriff's designated representative and/or operating personnel and fully demonstrate the operation and maintenance of the systems, equipment, and devices specified herein.

Check, inspect, and if necessary adjust all systems, equipment, devices and components specified, at the Sheriff's Office convenience, approximately thirty(30) days after the Sheriff's Office acceptance of this work.

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The undersigned has carefully examined the proposal package and all conditions affecting the cost of the commodity required by the Hillsborough County Sheriff's Office. The undersigned certifies that any exceptions to the proposal specifications are noted on the attached exceptions form. All specifications not noted thereon are as requested. The undersigned also understands that any exceptions presented after the award, may be cause for cancellation of award. We hereby propose to furnish the below described commodity in accordance with the proposal package, except as noted on attached Exceptions Form:

INTEGRATED FIBER INTRUSION SYSTEM - provide a detailed description of the system (including system capabilities, equipment and proposed installation design) offered to the Sheriff's Office for this application.

TOTAL PROPOSAL PRICE \$ _____

NOTICE TO BIDDER: A COMPLETE LIST OF ALL PROPOSED EQUIPMENT INCLUDING DESCRIPTION, BRAND & MODEL NO., ALONG WITH DETAILED MANUFACTURER'S SPECIFICATION SHEETS, SHALL BE **SUBMITTED WITH THE PROPOSAL RESPONSE.**

Estimated delivery time for all equipment _____ calendar days After Receipt of Order.

NOTE: Installation shall commence within fifteen (15) calendar days After Receipt of Equipment.

Installation can be completed within _____ calendar days after commencement of installation.

Warranty Statement: _____

(Attach manufacturer's warranty to the back of this document.)

Warranty Repair Contractor: _____

Address: _____

Contact: _____ Telephone No.: _____

SUB-CONTRACTORS & SUPPLIERS

1.	Firm Name	_____
	Contact	_____
	Title	_____
	Mailing Address	_____

	Phone	_____
2.	Firm Name	_____
	Contact	_____
	Title	_____
	Mailing Address	_____

	Phone	_____
3.	Firm Name	_____
	Contact	_____
	Title	_____
	Mailing Address	_____

	Phone	_____
4.	Firm Name	_____
	Contact	_____
	Title	_____
	Mailing Address	_____

	Phone	_____

** ATTACH ADDITIONAL PAGES AS NECESSARY.

REFERENCE LIST

1. Firm Name _____
Contact _____
Title _____
Mailing Address _____
Phone _____

2. Firm Name _____
Contact _____
Title _____
Mailing Address _____
Phone _____

3. Firm Name _____
Contact _____
Title _____
Mailing Address _____
Phone _____

4. Firm Name _____
Contact _____
Title _____
Mailing Address _____
Phone _____

3. VENDOR:

Check One: () Proprietorship

() Partnership

() Corporation

Federal ID No. _____

WAREHOUSE ADDRESS IF DIFFERENT FROM ABOVE: _____

TELEPHONE NUMBER FOR PLACING ORDERS: (_____) _____

FAX NUMBER: (_____) _____

CONTACT PERSON: _____

OUR COMPANY HAS BEEN IN BUSINESS UNDER ITS PRESENT NAME SINCE: _____

At this present time we understand all requirements and state that as a serious bidder we will comply with all the stipulations included in the proposal package.

The above named Bidder affirms and declares:

1. that the Bidder is of lawful age and that no other person, firm or corporation has any interest in this proposal or in the contract proposed to be entered into;
2. that this proposal is made without any understanding, agreement, or connection with any other person, firm or corporation making a proposal for the same purpose, and is in all respects fair and without collusion or fraud;
3. that the Bidder is not in arrears to Hillsborough County or the Sheriff upon debt or contract and is not a defaulter, as surety or otherwise, upon any obligation to the Sheriff;
4. that no officer or employee or person whose salary is payable in whole or in part from the County Treasury is, shall be or become interested, directly or indirectly, surety or otherwise in this proposal; in the performance of the contract; in the supplies, materials, equipment, and work or labor to which they relate; or in any portion of the profits thereof.

The undersigned agrees, if awarded the Proposal, to complete installation within sixty (60) calendar days.

The undersigned agrees, also, that this bid shall remain open for an evaluation period of forty-five (45) calendar days following the opening of proposals.

Respectfully submitted,

PLEASE PRINT

-

By _____

Title _____

Date _____

Signature _____

