	<p align="center">COLLETON COUNTY SCHOOL DISTRICT</p> <p align="center">SEALED BID Invitation For Bid (IFB)</p>	Solicitation Number Date Issued Procurement Officer Phone E-Mail Address	11-BG1110 11/11/2010 Ramona Barrett (843) 782-4510 EXT. 40243 rbarrett@mail.colleton.k12.sc.us
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DESCRIPTION: New Colleton County High School – Access Control System and Video Surveillance Integrated System

The Term "Offer" Means Your "Bid" or "Proposal".

SUBMIT OFFER BY (Opening Date/Time): **December 7, 2010 @ 10:00 A.M.**

QUESTIONS MUST BE RECEIVED BY: **December 6, 2010 @ 3:00 P.M.**
Via E-mail: KBlakeney@mail.colleton.k12.sc.us

NUMBER OF COPIES TO BE SUBMITTED: **One (1) original and Two (2) copies (marked 'copy')**

Offers must be submitted in a sealed package. Solicitation Number & Opening Date must appear on package exterior.

SUBMIT YOUR SEALED OFFER TO EITHER OF THE FOLLOWING ADDRESSES:

MAILING ADDRESS:

Colleton County School District
213 North Jefferies Blvd.
Walterboro, SC 29488

PHYSICAL ADDRESS:

Colleton County School District
213 North Jefferies Blvd
Walterboro, SC 29488

CONFERENCE TYPE: Pre-Bid Conference
DATE & TIME: November 30, 2010 @ 10:00 A.M.

LOCATION: Department of Buildings & Grounds
246 Beach Road
Walterboro, SC 29488

AWARD & AMENDMENTS	Award will be on 12/17/10 . The award, this solicitation, and any amendments will be posted at the following web address: http://www.colleton.k12.sc.us/finance/finance.html
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You must submit a signed copy of this form with Your Offer. By submitting a bid or proposal, You agree to be bound by the terms of the Solicitation. You agree to hold Your Offer open for a minimum of thirty (30) calendar days after the Opening Date.

NAME OF OFFEROR <small>(Full legal name of business submitting the offer)</small>	OFFEROR'S TYPE OF ENTITY: <small>(Check one)</small> <input type="checkbox"/> Sole Proprietorship <input type="checkbox"/> Partnership <input type="checkbox"/> Corporation (tax-exempt) <input type="checkbox"/> Corporate entity (not tax-exempt) <input type="checkbox"/> Government entity (federal, state, or local) <input type="checkbox"/> Other _____ <small>(See "Signing Your Offer" provision.)</small>
AUTHORIZED SIGNATURE <small>(Person signing must be authorized to submit binding offer to enter contract on behalf of Offeror named above.)</small>	
TITLE <small>(Business title of person signing above)</small>	
PRINTED NAME <small>(Printed name of person signing above)</small>	

Instructions regarding Offeror's name: Any award issued will be issued to, and the contract will be formed with, the entity identified as the offeror above. An offer may be submitted by only one legal entity. The entity named as the offeror must be a single and distinct legal entity. Do not use the name of a branch office or a division of a larger entity if the branch or division is not a separate legal entity, *i.e.*, a separate corporation, partnership, sole proprietorship, etc.

STATE OF INCORPORATION (If offeror is a corporation, identify the state of Incorporation.)

TAXPAYER IDENTIFICATION NO. <small>(See "Taxpayer Identification Number" provision)</small>	STATE VENDOR NO. <small>(Register to Obtain S.C. Vendor No. at www.procurement.sc.gov)</small>
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Scope of Work begins on page 9

INSTRUCTIONS TO OFFERERS

Submit Proposal and a completed W-9 form for your agency in a sealed envelope with the IFB number as well as the time and date for opening prominently marked on the outside.

Bids must be submitted to or at the time, date and exact location specified to be considered. No late bids, telegraphic, or telephonic bids will be accepted.

All bids must be signed by an authorized officer or employee of the offerer.

All information requested of the offerer must be entered in the appropriate space on the original forms. Failure to do so may be grounds for disqualification.

All information must be entered in ink or typewritten. Mistakes may be crossed out and corrected prior to submission, if initialed by the person signing the bid.

Corrections and/or modifications received after the closing time specified will not be accepted.

Time of delivery, defined as the number of calendar days between receipt of the order by the offerer and the receipt of goods or services by The School District, may be considered as one factor in determining the award.

Prices will be considered net if no discount is shown.

GENERAL CONDITIONS

GENERAL PROVISIONS

This solicitation does not commit the District to award a contract, to pay any costs incurred in the preparation of the quote/bid or to procure any goods or services.

An authorized individual who may bind the Offeror to provide the services in accordance with the specifications contained in this RFP/IFB must sign your quote/bid response. The quote/bid response must contain a statement to the effect that your quote/bid is firm for a period of thirty (30) days from the bid due date or longer if so required by the District.

Colleton County School District Procurement Code and Regulations govern and supersede any and all documents, proposals and policies, whether stated or implied.

The District assumes no responsibility for the delivery of any solicitation, addendum, solicitation response, or any other such correspondence by the US Postal service, electronic transmission, facsimile, or any other method.

In the event that a bid (with \$50,000.00 or greater in value) is unintentionally opened prior to the official time set for the bid opening, the employee opening such a bid shall immediately inform the Chief Procurement officer, or designee, who shall in the presence of another employee re-seal the envelope and note on envelope that it was opened in error.

Addenda: Addenda shall be issued prior to the RFQ/IFB submittal date and time for the purposes of modifying or interpreting the quote/bid/proposal instructions through additions, deletions, clarifications, or corrections. At the discretion of the District, if it becomes necessary to revise or clarify any part of this RFP/IFB, an addendum will be posted at <http://www.colleton.k12.sc.us/finance/finance.html>

Addenda shall be forwarded to all potential offerors who are known by the District to have received a complete copy of the RFP/IFB. No addenda shall be issued later than four (4) days prior to the RFP/IFB submittal date except to a) withdraw the RFP/IFB solicitation, or b) to postpone the RFQ/IFB submittal date and time. The Chief Procurement Officer, or other District employee, shall not be legally bound by any amendment or interpretation that is not in writing.

Ambiguous Quotes/Bids: Quotes/bids which are uncertain as to terms, delivery, quantity, or compliance with requirements and/or specifications may be rejected or otherwise disregarded.

Approval of Publicity Releases: The Contractor shall not have the right to include the District's name in its published list of customers, without prior approval of the District. The Contractor agrees not to publish or cite in any form any comments or quotes from District staff. Contractor further agrees not to refer to award of this contract in commercial advertising in such a manner as to state or imply that the products or services provided are endorsed or preferred by the District.

Authorization and Acceptance: The quote/bid/proposal must be signed by an authorized individual who may bind the Offeror to these services in accordance with the requirements contained in this RFQ/IFB/RFP. The quote/bid/proposal must contain a statement to the effect that your bid is firm for a period of thirty (30) days from the quote/bid/proposal due date or longer if so required by the District.

In the event that identical bids/proposals are received on like items, the Chief Procurement Officer shall award the quote/bid/proposal in accordance with the District's Procurement Code.

Bidder's Qualification: No quote, bid or proposal shall be accepted from, and no contract will be awarded to, any person, firm, or corporation that is deemed irresponsible or unreliable to the District.

Clarifications: The District reserves the right, at any time after opening and prior to award, to request from any Proposer clarification, address technical questions, or to seek or provide other information regarding the Proposer's bid. Such a process may be used for such purposes as providing an opportunity for the Proposer to clarify his quote/bid/proposal in order to assure mutual understanding and/or aid in determinations of responsiveness or responsibility.

Competition: There are no Federal or State laws that prohibit Proposers from submitting a quote/bid/proposal lower than a price or quote/bid/proposal given to the United States Government. Proposers may submit a quote/bid/proposal lower than United States Government Contract price without any liability because the State is exempt from the provisions of the Robinson-Patman Act and other related laws.

Confidentiality: Ownership of all data, material and documentation originated and prepared pursuant to this RFQ/IFB/RFP shall belong exclusively to the District and be subject to public inspection in accordance with the Freedom of Information Act. However, commercial and/or financial information which is confidential or privileged included in bids will not be disclosed if such information has been identified by the firm as confidential. All firms who wish to have selected information in their bids remain confidential must visibly mark as "Confidential" each part of the quote/bid/proposal they consider to contain proprietary information.

Covenant against Contingent Fees: The vendor warrants that no person or selling agency has been employed or retained to solicit or secure this contract upon an agreement or understanding for a commission, percentage, brokerage, or contingent fee, excepting bona fide employees or bona fide established commercial or selling agencies maintained by the vendor for the purpose of securing business. For breach or violation of this warranty, the School District of Colleton County shall have the right to annul this contract without liability or in its discretion to deduct from the contract price or consideration, or otherwise recover the full amount of such commission, percentage, brokerage, or contingent fee.

Correction of Errors in the quote/bid/proposal: All prices and notations should be printed in ink or typewritten. Errors should be crossed out, corrections entered and initialed by the person signing the quote/bid/proposal. Erasures or use of typewriter correction fluid may be cause for rejection. No quote/bid/proposal shall be altered or amended after specified time for opening.

District Closings: If an emergency or unanticipated event interrupts normal District processes so that offers cannot be received at the Finance Office of the District by the exact time specified in the solicitation, the time specified for receipt of offers will be deemed to be extended to the same time of day specified in the solicitation on the first work day on which normal District processes resume. In lieu of an automatic extension, an Amendment may be issued to reschedule bid opening. If District offices are closed at the time a pre-bid or pre-proposal conference is scheduled, an Amendment will be issued to reschedule the conference. Useful information may be available at www.colleton.k12.sc.us.

District Regulations: The vendor(s) and his representatives shall follow all applicable regulations while on District property, including the NO SMOKING, no weapons, and drug-free policies. No work shall interfere with school activities or environments unless an authorized employee for that location gives permission.

Explanation to Prospective Bidders/Proposers:

Any prospective Bidder/Proposer desiring an explanation or interpretation of this solicitation shall request it in writing soon enough to allow a reply to reach all prospective Bidders/Proposers before submission of their quote/bid/proposal.

Oral explanation and/or instructions given before the award of the contract shall not be binding.

Any information given to a prospective Bidder/Proposer pertaining to this solicitation shall be furnished promptly to other prospective Bidders/Proposers as an amendment, if that information is necessary in submitting a quote/bid/proposal, or if the lack of it would be prejudicial to other prospective Bidders/Proposers.

Examination of Records:

The School District of Colleton County shall have until three (3) years after final payment under this contract access to and the right to examine any of the Contractor's directly pertinent books, documents, papers or other records involving transactions related to this contract.

The contractor agrees to include in first-tier subcontracts under this contract, a clause to the effect that the Superintendent of the School District

of Colleton County, or her duly authorized representative(s), shall, until three (3) years after final payment under the subcontract, have access to and the right to examine any of the subcontractor's directly pertinent books, documents, papers or other records involving transactions related to the subcontract(s).

Interpretations: If any questions arise from this solicitation, respondents must contact the District's Finance Department. Any response to the respondent's request for interpretation of documents will be made by addendum if the Finance Department believes the interpretation is not clear in the bid document. The District will not be responsible for any other explanation or interpretations.

Prohibition Against Conflicts of Interest, Gratuities and Kickbacks: "Any employee or any official of the District, elective or appointive, who shall take, receive or offer to take or receive either directly or indirectly, any rebate, percentage of contract, money or other things of value, as an inducement or intended inducement, in the procurement of business, or the giving of business, for, or to, or from, any person, partnership, firm of corporation, offering, bidding for, or in open market seeking to make sales to the District shall be deemed guilty of a felony and upon conviction such person or persons shall be subject to punishment or a fine in accordance with State and/or Federal laws."

Quote/bid/proposal Constitutes Offer: By submitting a quote/bid/proposal, the Offeror agrees to be governed by the terms and conditions as set forth in this document. Any quote/bid/proposal containing variations from the terms and conditions set forth herein may, at the sole discretion of the District, render such quote/bid/proposal nonresponsive. Any inconsistencies between the RFQ/IFB/RFP and any other contractual instrument shall be governed by the terms and conditions of this RFQ/IFB/RFP, except where subsequent amendments to any contract resulting from this RFQ/IFB/RFP award are specifically agreed to in writing by the parties to supersede any such provisions of this RFQ/IFB/RFP.

Quote/bid/proposal Expenses: The District or any of its representatives shall not be held responsible for any expenses incurred in the preparation or subsequent presentation of the vendor's response to this solicitation.

Posting of Award (applies to contracts in excess of \$50,000.00): Notice of Award or Intent to Award will be posted on the District's Website: <http://www.colleton.k12.sc.us/finance/finance.html>

Proper Invoice: Invoices submitted for payment for goods or services provided under this contract shall contain, as a minimum, the following information:

Name of business

Contract number or other authorization for delivery of service or property

Complete description

Price and quantity of property or service actually delivered or executed

Shipping and payment terms.

Name where applicable

Title, telephone number and complete mailing address of responsible official to whom payment is to be sent; and

Other substantiating documentation of information as required by the contract.

Proposer's Qualifications: Quotes/Bids/Proposals shall be considered only from Proposers who are regularly established in the business called for and who in the judgment of the District are financially responsible and able to show evidence of their reliability, ability, experience, equipment supervised by them to render prompt and satisfactory service in the volume called for under this contract.

Rejection/Cancellation: The District reserves the right, to accept or reject, in part or in entirety, any or all quotes/bids/proposals, to negotiate with all qualified proposers and to cancel in part or in entirety this solicitation if it is in the best interest of the District. Further, the District reserves the right to waive any or all informalities or technicalities in order to serve the best interest of the District.

Responses: All responses to this solicitation must comply completely with the requirements and schedule indicated in this solicitation to be considered for evaluation. All vendor(s) must be able to meet or exceed any and all requirements.

Site Visits: The District reserves the right to make site visits to the successful contractor's operation facilities prior to and after award. Site visit may include:

Walk-through of warehouse and storage facilities.

Inspection and review of delivery fleet capabilities.

Substitutions: The materials and products described in the RFQ/IFB/RFP establish a standard of required function, dimension, appearance and quality to be met by any proposed substitution. Reference in the RFQ/IFB/RFP to the words "or approved alternate" shall be interpreted as establishing a standard of quality and shall not be construed as limiting competition. **Any deviation from the enclosed specifications must be documented on the quote/bid/proposal form.**

Time of Completion: Date of delivery shall be a consideration factor in the awarding process. The Proposer shall include with his/her quote/bid/proposal delivery dates for each item as requested, and shall furnish all items in accordance with the quote/bid/proposal solicitation unless an extension was granted by the District in writing.

Unlawful Acts: The District interprets a signed quote/bid/proposal as signifying that the accompanying quote/bid/proposal is not the result of, or affected by, any unlawful act of collusion with any other person or company engaged in the same line of business or commerce, or any other fraudulent act punishable under the state of South Carolina or United States laws.

Withdrawal of Proposal Response: A quote/bid/proposal response cannot be withdrawn after it is filed, unless the respondent makes a written request to the Chief Procurement Officer prior to the last date and time set for receipt of the quote/bid/proposal responses. If the District fails to accept the response or award a contract within thirty (30) days after the quote/bid/proposal opening date, the respondent must inform the District, in writing, that they do not wish for their response to continue to be considered.

GENERAL PROVISIONS

1. **Assignment:** No contract or its provisions may be assigned, sublet, or transferred without the written consent of the Procurement Officer.
2. **Bid Bond:** Bids will be accompanied by a Proposer's bond or certified check equal to five percent (5%) of the total dollar value of the submitted bid. When bid bond is required, it shall be so stated in the Instructions to Proposers.
3. **Contractor Responsibility:** The Contractor alone will be held solely responsible to the District for performance of all Contractor obligations under any contract resulting from their quote/bid/proposal.
4. **Default:** In case of default by the contractor, the District reserves the right to purchase any or all items in default in open market, charging the contractor with any additional costs. The defaulting contractor shall not be considered a responsible bidder until the assessed charge has been satisfied.
5. **Drug-free Workplace:** By signing and submitting a bid, a proposer is certifying that it will comply with all requirements of the South Carolina Drug-Free Workplace Act, Section 44-107-10, ET Seq., S.C. Code Ann., (1976).
6. **Equal Opportunity:** The successful firm agrees not to refuse to hire, discharge, promote, demote, or to otherwise discriminate in matters of compensation against any person otherwise qualified solely because of race, creed, sex, national origin, ancestry or physical handicap.
7. **Force Majeure:** The Contractor shall not be liable for any excess costs if the failure to perform the contract arises out of causes beyond the control and without the fault or negligence of the contractor. Such causes may include, but are not restricted to acts of God or of the public enemy, acts of the government in either its sovereign or contractual capacity, fires, floods, epidemics, quarantine restrictions, strikes, freight embargoes, and unusually severe weather; but in every case the failure to perform must be beyond the control and without the fault or negligence of the contractor. If the failure to perform is caused by the default of a subcontractor, and if such default arises out of causes beyond the control of both the contractor and subcontractor, and without the fault or negligence of either of them, the contractor shall not be liable for any excess costs or failure to perform, unless the supplies or services to be furnished by the subcontractor were obtainable from other sources in sufficient time to permit the contractor to meet the required delivery schedule.
8. **Governing Laws:** All proposal documents submitted in response to this solicitation are governed under the laws of the State of South Carolina. Contractor must be authorized and/or licensed to do business in the State of South Carolina. Notwithstanding the fact that applicable statutes may exempt or exclude the successful offeror from requirements that it be authorized and/or licensed to do business in said state, by signing of this Agreement, Contractor agrees to subject itself to the jurisdiction and process of the courts of the State of South Carolina or federal courts as to all matters and disputes arising or to arise under the Agreement and the performance thereof, including any questions as to the liability for taxes, licenses or fees levied by the State.
9. **Illegal Immigration:** (applicable to service contracts only) By signing your offer, you certify that you will comply with the applicable requirements of Title 8, Chapter 14 of the South Carolina Code of laws and agree to provide to the District, upon request, any documentation required to establish either: (a) that Title 8, Chapter 14 is inapplicable to you and your subcontractors or sub-subcontractors; or (b) that you and your subcontractors or sub-subcontractors are in compliance with Title 8, Chapter 14. Pursuant to Section 8-14-60, "A person who knowingly makes or files any false, fictitious, or fraudulent document, statement, or report pursuant to this chapter is guilty of a felony and, upon conviction, must be fined within the discretion of the court or imprisoned for not more than five (5) years, or both." You agree to include in any contracts with your subcontractors language requiring your

subcontractors to (a) comply with the applicable requirements of Title 8, Chapter 14, and (b) include in their contracts with the sub-subcontractors language requiring the sub-subcontractors to comply with the applicable requirements of Title 8, Chapter 14.

- 10. Indemnification:** The vendor(s) shall agree to hold the District harmless and to indemnify the District from every expense, liability, or any payment arising out of or through injury (including death) to any person(s) or damage to any property of any location in which work is located arising out of or suffered through any at or omission of the vendor(s).
- 11. Installation:** Where equipment is called for to be installed under this RFQ/IFB/RFP, it shall be placed, leveled and accurately fastened into place by the vendor. He/she shall be responsible for obtaining dimensions and other such data which may be required to assure exact fit to work under another contract or as intended by the District. The vendor shall be responsible for providing an appropriate amount of lead-in for equipment requiring electrical, water or other basic service. The District will normally be responsible for bringing the appropriate service to the lead-in. The vendor shall completely remove from the premises all packaging, crating, and other litter due to his/her work. He/she shall also be responsible for the cost of repair of any damage to existing work which is caused by him/her during the installation of his/her equipment.
- 12. Insurance:** Contractor shall maintain, throughout the performance of its obligations under this Agreement, a policy or policies of Worker's Compensation insurance with such limits as may be required by law, and a policy or policies of general liability insurance insuring against liability for injury to, and death of persons and damage to, and destruction of, property arising out of or based upon any act or omission of the Contractor or any of its subcontractors or their respective officers, directors, employees or agents. Such general liability insurance shall have limits sufficient to cover any loss or potential loss resulting from this contract.
- 13. Licenses and Permits:** During the term of the contract, the Contractor shall be responsible for obtaining and maintaining in good standing, all licenses (including professional licenses, if any), permits, inspections and related fees for each of any such licenses, permits and/or inspections required by the District, county, city or other government entity or unit to accomplish the work specified in this solicitation document and the contract.
- 14. Minority Business:** Specify if your firm is a South Carolina certified minority business. If so, please provide the District with a copy of the certificate. The South Carolina definition of a minority business is a business that is at least 51% owned, operated, and controlled by a minority; or in cases of a publicly-owned business, at least 51% of the stock must be owned by a minority. Such minorities include but are not limited to African Americans, Hispanic Americans, Native Americans, and Eskimos. At the end of each contract year, Contractor is to annually report to the District, any sub-contractor that is a certified minority business and the monetary amount paid to that firm.
- 15. Non-Appropriations:** Any contract entered into by the District or its departments, employees or agents resulting from this RFQ/IFB/RFP shall be subject to cancellation without damages or further obligation when funds are not appropriated or otherwise made available to support continuation of performance in a subsequent fiscal period or appropriated year.
- 16. Offeror Responsibility:** Each Proposer shall fully acquaint himself/herself with conditions relating to the scope and restrictions attending the execution of the work under the conditions of this RFQ/IFB/RFP. It is expected that this will sometimes require on-site observation. The failure or omission of a Proposer to acquaint himself/herself with existing conditions shall in no way relieve the Proposer of any obligations with respect to this RFQ/IFB/RFP or contract.
- 17. Packaging and Delivery:** All Shipments shall be FOB destination, freight prepaid, to the District locations specified. Purchase order numbers and/or contract number(s) as appropriate, must be clearly stated on each carton or package, shipping ticket, invoice, and any/all other information related to the order.
- 18. Delivery Time:** A written schedule for ordering and delivery for each of the schools will be established and mutually agreed upon by the District and the successful bidder within five (5) working days after the date of award.
- 19. Delivery Conditions:** Deliveries shall be made to each school in the District on a regularly scheduled basis every week, Monday through Friday, except school holidays and closing days (due to inclement weather). All schedules for deliveries will remain constant throughout the duration of the contract. Any changes to the schedule must be mutually agreed upon by the successful bidder and the District.
- 20. Holiday Deliveries:** "Holidays" shall be defined as any week that has less than five (5) school days. If the holiday falls on a scheduled delivery day, the delivery shall be made on a day to be mutually agreed upon by the District and the successful contractor.

Drivers and helpers shall request the authorized school receiver, or the designated representative, to verify the accuracy of quantities of each item, brand and code numbers of each items and condition of merchandise. Each delivery ticket shall be signed by a designated school receiver. Variations from the norm, i.e., shortages, damages, etc., shall be noted on each ticket by the designated school receiver and initialed by both the truck driver and school receiver. The contractor shall not be required to issue credits for errors not detected at time of delivery, except for hidden damage.

Special or intermediate deliveries shall be required only if a contractor fails to deliver a product on a regularly scheduled delivery.

- 21. Protection of Existing Vegetation, Structures, Equipment, Utilities, And Improvements:** The Contractor shall preserve and protect all structures, equipment, and vegetation (such as grass, trees, and shrubs) on or adjacent to the work site, which is not to be removed and which does not unreasonably interfere with the work required under this contract. The Contractor shall only remove trees when specifically authorized to do so, and shall avoid damaging vegetation that will remain in place. If any limbs or branches of trees broken during contract performance, or by any careless operation of equipment, or by workmen, the Contractor shall trim those limbs or branches with a clean cut and paint the cut with tree pruning compound as directed by the District representative(s).

The Contractor shall protect from damage all existing improvements and utilities at or near the work site and on adjacent property of a third party, the locations of which are known to or should be known by the Contractor. The Contractor shall repair any damages to those facilities, including those that are the property of a third party resulting from failure to comply with the requirements of this contract or failure to exercise reasonable care in performing the work. If the Contractor fails or refuses to repair the damaged property, the District representative(s) may recommend that the necessary work be performed and charge the cost to the Contractor.

- 22. Quality of Product:** (This clause does not apply to solicitations for service requirements). Unless otherwise indicated in this bid it is understood and agreed that any item offered or shipped on this RFQ/IFB/RFP shall be new and of first quality.

Right to Protest: Any prospective proposer, offeror, contractor, or subcontractor who is aggrieved in connection with the solicitation of a contract shall protest to the Chief Procurement Officer within fifteen (15) days of the date of issuance of the RFQ/IFB/RFP or other solicitation documents whichever is applicable or any amendment thereto, if the amendment is at issue. Any protest must be addressed to the Chief Procurement Officer, Colleton County School District, and submitted in writing (a) by email to rbarrett@mail.colleton.k12.sc.us, (b) by facsimile at 843-782-3502, or (c) post or delivery to 213 N. Jefferies Blvd, Walterboro, SC 29488

- 23.** Any actual proposer, offeror, contractor, or subcontractor who is aggrieved in connection with the intended award or award of a contract shall protest to the Chief Procurement Officer within ten (10) days of the date the notification of award is posted. Shall not apply to small purchases (under \$50,000 in actual or potential value).

- 24. Save Harmless:** (This clause does not apply to solicitations for service requirements). The successful proposer shall indemnify and save harmless the District, all officers, agents and employees from all suits or claims of any character brought by reason of infringing on any patent trade mark, or copyright. Proposer shall have no liability to the District if such patent, trademark or copyright infringement or claim is based upon the Proposer's use of material furnished to the Proposer by the District.

- 25. Subcontractors:** Any bidder in response to this RFQ/IFB/RFP shall set forth in his quote/bid/proposal the name of each subcontractor. If the bidder determines to use his own employees to perform any portion of the work for which he would otherwise be required to list a subcontractor and if the proposer is qualified to perform such work under the terms of the RFQ/IFB/RFP, the proposer shall list himself in the appropriate place in his quote/bid/proposal and not subcontract any of that work except with the approval of the District for good cause shown.

If you intend to subcontract with another business for any portion of the work and that portion exceeds 10% of your price, your offer must identify that business and the portion of work which they are to perform. Identify potential subcontractors by providing the business name, address, phone number, taxpayer identification number, and point of contact. In determining your responsibility, the District may evaluate your proposed subcontractors.

- 26. Submission of Data:** Each Proposer, upon request, shall submit evidence of liability insurance, Workmen's Compensation (if required), and other data regarding experience relating to this Quote/bid/proposal and proposes to satisfy the requirements of this solicitation and fulfillment of a contract. The contractor shall maintain during the entire period of his performance under this contract, the required minimum insurance covering all properties and activities that are encompassed in the performance of the Proposal requirements. The successful vendor must furnish a statement of Workers' Compensation as required by law and by entering into contract guarantees that said contractor will not file a claim against Colleton County School District.

Prior to the commencement of work hereunder, successful contractor shall furnish to the District, a certificate of the above insurance requirements. The policies evidencing required insurance shall contain an endorsement to the effect that cancellation or any material change in the policies adversely affecting the interests of the District in such insurance shall not be effective without 15 days advance written notice to the District. Failure to replace any canceled insurance shall be deemed a breach of contract by the contractor.

- 27. Substitutions:** Deliveries shall be made as ordered. Unauthorized substitutions and deviations from stated orders are prohibited.
- 28. Termination:** Subject to the Provision below, the contract may be terminated by the District providing a thirty (30) day advance notice in writing is given to the contractor.
- 29. Termination for Cause:** Termination by the District for cause, default or negligence on the part of the contractor shall be excluded from the foregoing provisions, termination costs, if any, shall not apply. The thirty (30) days advance notice requirement is waived and the default provision in this bid shall apply.

The District may, by written notice of default to the contractor, terminate this contract in whole or in part if the contractor fails to deliver supplies or to perform the services within the time specified in this contract or any extension.

- 30. Unit Price Governing:** Unit prices will govern over extended prices unless otherwise stated in the RFQ/IFB.

SPECIFICATIONS

The work covered under this specification consists of providing all labor, equipment, cabling, supplies and materials, and in performing all operations necessary for the "Turnkey" and fully complete installation of a Security Monitoring providing Access Control and Video Surveillance in accordance with the specifications and the accompanying drawings, except as specifically noted otherwise.

Bid SUBMITTAL

1. Sign Copy of Bid Form
2. Proposed Products List(including Quantity of units, manufacturer, and manufacturer model number)
3. Technical Qualifications Listing
4. Subcontractor Project References (if applicable)
5. State Approved Surety Bid Bond Form ensuring provision of Material and Performance Bond
6. OSSA-ABLOY Certification to install Access 600 System

SECTION 28 10 00 - Electronic Access Control and Intrusion Detection

28 10 10 Software

A. Access Control Global Applications

1. The system software will be capable of integrating monitoring and alarm functions into a single Graphic Display/Alarm Annunciation system. This system will provide bi-directional interface to Door Access control hardware and Electronic Surveillance System. Provide hardware/software package with the following functionality:
 - a. Alarm inputs from the DACS or Electronic Surveillance System are integrated through an event manager which coordinates alarm sources with desired results when an alarm is detected.
 - b. Active floor plan maps will show both the location and real time status of alarms. Thumbnail video displays can be recalled directly from the floor plans.
 - c. The Monitoring Desktop allows system activity in real time including video, alarm events, access control logs, and photo ID. The display can be "torn off" and placed on a PC desktop for dedicated monitoring or multi-monitor applications
 - d. The system will allow the owner to view reports, transactions, alarm status, audit trail and card enrollment only. Graphical maps integrated with CCTV, door programming software and live transaction viewer are software based applications.
 - e. Video recording and camera commands can be initiated by event detection or alarm generation can be based on video motion detection. The system provides for one-click recall of recorded event/alarm video
 - f. System can provide detailed responder instructions for each event or alarm
 - g. The system can provide selectable event priority and action priority
 - h. The system can provide programmable "disarm alarm panel" on card access; programmable "arm alarm panel" on inactivity; or remotely control "alarm/disarm/reset" panel.
 - i. Provide software as manufactured by Lenel, S2 Security Corporation and Amano.

B. Access Control Systems & Database Management

1. The system will utilize the Linux Operating System and an ODBC compliant database with the following capabilities.
 - a. Software control with database capable of controlling 224 card readers; 20,000 card records, and 250,000 online history transactions
 - b. Provides for multi-day holiday schedules
 - c. Security policies and business rules can be changed based on the day of the week, time of the day, or holiday schedule.
 - d. Advanced access control regimes such as anti-passback, regional anti-passback, and two reader-reader

portal controls are supported.

- e. Access history is stored in the database, automatically backed up nightly to online or offline storage, and optionally exported to network attached storage.
- f. Historical queries are run from the system's user interface and the data is available online through ODBC to such applications as Crystal Reports or Microsoft Excel or offline through the automatically exported CSV file.
- g. When interfacing or control through external application is desired, the access control database can be populated using this system.
- h. Complete documentation is available through the web browser and resident in the system controller delivering documentation instantly in context.
- i. The access database is included with the software package as Manufactured by Lenel, S2 Security Corporation and Amano.

C. Access Control Interfaces

1. The Access Control Interface to the Electronic Surveillance system will utilize the IP network for full integration and bi-directional communication with the Security Video Servers and controlling software.
2. Events in the alarm and access control subsystems can initiate video recording, change camera telemetry, and switch video displays.
3. Data logs for events that have associated video show up in real time displays and historical reports with icons indicating any associated recorded camera views. A mouse click on the appropriate camera icon retrieves the related video stream and provided replay controls.
4. Live views are also integrated into floor plan graphics and the Monitoring Desktop display acts as a dashboard for video, alarms, and other security subsystems. Live video thumbnails can be detached and dragged onto the PC desktop, requiring very little screen real estate.

28 10 20 Headend Components

A. System Controller

1. The system implements a fully distributed, solid state IP network appliance architecture, providing superior MTBF (Mean Time Between Failure) performance. The Network Controller is the server for a single facility and includes an embedded software suite with multi-thread web server, ODBC compliant database, and a suite of embedded application software.
2. Software for the entire system is embedded in flash memory and updates are completed in a single operation and delivered online. A RAM disk provide temporary storage with persistent storage provided in the flash ROM, removable compact flash, or over the network using network attached storage.
3. AmanoNet software communicates with NVR not the controller.
4. Locate unit in Telecom Closet 1133.
5. Provide a network controller with the following functions and features:
 - a. Linux OS Kernel
 - b. Intel IXP425 processors with 64MB RAM Memory, 8MB of Flash ROM Memory, and up to 4GB of Compact Flash memory.
 - c. Provides (2) separate Ethernet interfaces with an integrated 10/100 switch
 - d. IP address determination can be either static or DHCP
 - e. Supports up to 64 terminals
 - f. Product as manufactured by Lenel, S2 Security Corporation and Amano.

PROVIDE QUANTITY OF: ONE with Capacity as noted in A.4.e.2) below

B. Uninterruptible Power Supply (UPS)

1. Provide a true on-line UPS system providing a minimum of 20 minutes backup power. Provide UPS system as manufactured by Para Systems, Liebert, Sola, or Best for the User Interface PC and System Controller as specified herein. The UPS must be capable of interfacing to the Linux PC with an alarm function that enables the PC and System Controller to execute an orderly shut down prior to complete loss of power for the purpose of protection the databases stored on those units

PROVIDE QUANTITY OF: ONE

C. KVM With LCD Panel

1. Provide the following components for programming and interface to the OFE Security Workstations and Security Video Servers in Telecom Room 1302. Mount these components in the security system rack.
 - a. Middle Atlantic RM—KB-LCD15 rack mount keyboard/LCD unit or equivalent by other manufacturers.
 - b. 16 Way KVM Selector switch connected to the Security Video Servers, Security Video Storage, and Access Control PC

PROVIDE QUANTITY OF: ONE SUBSYSTEM

28 10 30 Remote Components

A. Remote Network Node

1. Remote Network Nodes connect to the IP Network and have a copy of the relevant data from the Network Controller database and are capable of supporting up to seven Application Blade Modules providing security device termination. These devices with be equipped with modules are noted.
2. Nodes that share a subnet with the Network Controller are automatically discovered and provided with a static DHCP address. Nodes that do not share a subnet with the Network Controller are configured with the provided setup program from anywhere on the local area network. Software updates to the network Controller automatically update the Network Nodes which in turn update the Blades
3. The Network Node uses an auto-discovery feature that can support up to Seven Application Blades. The Application Blades provide the following connection capability:
 - a. The Access Control Blade controls 2 card readers (Weigand protocol) and provides 4 Inputs and 4 Outputs
 - b. The Supervised Input Blade provides 16 supervised quad state Alarm Inputs (open, short, normal, alarm)
 - c. The Output Blade provides 16 form C relays capable of driving electric door operators.
4. Provide a Network Node with the following features and functions:
 - a. Processor with 2MB RAM Memory and 1MB of Flash ROM Memory.
 - b. Provides one 10/100 Ethernet interface
 - c. IP address determination can be either static, DHCP, or by Network Controller.
 - d. Provide rack mountable versions and install in Enclosures in TR/TC as noted in Part 5 below.
 - e. Product as manufactured by Lenel, S2 Security Corporation and Amano.

PROVIDE QUANTITY OF: SEVEN

B. Network Node Configurations

1. Node locations and module requirements as noted below:

- a. 1133 – ONE Controller and ONE Network Nodes providing control and monitoring for designated doors in Areas A100,D100, H100, and H200 of the facility with capacity for:
 - 1) 3 Card Reader Blade (6 readers, 12 inputs, and 12 outputs)
 - 2) 5 Input Blades (40 inputs)
 - 3) 1 Output Blade (8 Outputs)
- b. 3127 – TWO Network Nodes providing control and monitoring for designated doors in Areas B100, C100, and J100 of the facility with capacity for:
 - 1) 3 Card Reader Blade (6 readers, 12 inputs, and 12 outputs)
 - 2) 5 Input Blades (40 Inputs).
- c. 5125 – ONE Network Node providing control and monitoring for designated doors in Areas E100 and part of F100 with capacity for:
 - 1) 1 Card Reader Blade (2 readers, 4 inputs, and 4 outputs)
 - 2) 5 Input Blades (32 inputs).
 - 3) 1 Output Blade (8 Outputs)
- d. S5 – ONE Network Node providing control and monitoring for designated doors in partial Areas F100 and H100 with capacity for:
 - 1) 3 Card Reader Blades (6 readers, 12 inputs, and 12 outputs.)
 - 2) 2 Input Blade (16 inputs)
- e. 7122 – TWO Network Nodes providing control and monitoring for designated doors in Area F of the facility with capacity for:
 - 1) 2 Card Reader Blade (4 readers, 8 inputs, and 8 outputs)
 - 2) 6 Input Blades (48 inputs).
 - 3) 1 Output Blade (8 Outputs)

C. Remote Door Node

- 1. Remote Door Nodes connect to the IP Network and have a copy of the relevant data from the Network Controller database and are capable of supporting two card readers with four inputs and four outputs.
- 2. Nodes that share a subnet with the Network Controller are automatically discovered and provided with a static DHCP address. Nodes that do not share a subnet with the Network Controller are configured with the provided setup program from anywhere on the local area network. Software updates to the network Controller automatically update the Network Nodes.
- 3. Provide a Remote Door Node with the following features and functions:
 - a. Processor with 2MB RAM Memory and 1MB of Flash ROM Memory.
 - b. Provides interface to:
 - 1) Two card reader (Weigand protocol)
 - 2) Four supervised quad state alarm inputs (open, short, normal, alarm)
 - 3) Four form C relays
 - c. Provides one 10/100 Ethernet interface
 - d. Can be powered using PoE (IEEE 802.3af)
 - e. IP address determination can be either static, DHCP, or by Network Controller.
 - f. Fits into a 6 inch electrical box.
 - g. Product as manufactured by Amano, Lenel, S2 Security Corporation or equivalent from other manufacturers.

PROVIDE QUANTITY OF: TWO (Gatehouse South and North)

D. Independent Card readers

- 1. Provide and Install independent card readers as required for elevator call buttons and gate. Provide card readers with the following features.
 - a. Provides data in Weigand protocol

- b. Operates at 125kHz, reading formats up to 85 bits
- c. Provides beeper and multicolored LED
- d. Provide with 1 gang mounting plate
- e. Product as manufactured by HID, Model ProxPoint Plus Reader or Amano.

PROVIDE QUANTITY OF: NINE

E. Independent Card readers With PIN Pad

1. Provide and Install independent card readers with PIN pad as required for lift gate operation at the two Gatehouses. Provide card readers with the following features.
 - a. Provides data in Weigand protocol
 - b. Operates at 125kHz, reading formats up to 85 bits
 - c. Provides beeper and multicolored LED
 - d. Integrated with weatherized keypad sending keypad data over data output lines
 - e. Provide with 2 gang mounting plate
 - f. Product as manufactured by HID, Model ProProx II Reader with PIN pad or Amano.

PROVIDE QUANTITY OF: THREE

F. Provide, install, and interface to the access control system the following switches:

1. Provide and install a single pole, keyed, latching, and backlit switch with the designation on the lens "Lock Down" mounted on a one gang stainless steel plate at the Kiosk 1205 and the counters in Clerical 1125. Interface the switch to an input point of the access system located in 1133. Provide switch light power. Unlocking and depressing the switch will place the access control system in "Lock Down Mode."
2. Provide and install a single pole momentary backlit switch mounted on a one gang stainless steel plate. Provide ONE at the Kiosk 1205 and ONE at counter for Clerical 1125. Interface the switch to an input point of the access system located in 1133. Provide switch light power. Depressing the switch will unlock one door between Lobby 1101 and Hall of Fame 1199.
3. Provide and install a single pole momentary backlit switch mounted on a one gang stainless steel plate. Provide TWO at Kiosk 1205, ONE at the counter in Clerical 1125 and ONE at the counter for Secretary 1178. Interface the switches to an input point of the access system located in 1133. Provide switch light power.
 - a. Depressing one switch at Kiosk 1205 or the switch in Clerical 1125 will momentarily unlock the door between Lobby 1101 and Reception 1102.
 - b. Depressing the other switch at Kiosk 1205 or the switch in Secretary 1178 will momentarily unlock the door between Lobby 1101 and Reception 1180.
4. Cable for the switches will be provided by the Division 27 10 00 Structured Cabling contractor.

G. Door Power Supplies

1. Provide and install rack mountable 110VAC to 24VDC power supplies for electric latch solenoid control as follows in the respective wiring closets where access control remote nodes are located:
2. Where a series of doors are controlled as a group, cable all inputs from a single DACS output.
3. 110VAC to 24VDC rack mounted door electric latch solenoid (12 watts per solenoid) power supply located in the local data closet. Provide a power supply with the following features and functions:
 - a. Eight (8) or Sixteen (16) individually fuse protected outputs with individual LED power indicators.
 - b. Individual output triggered by normally open (NO) dry contact inputs.
 - c. Models provide 3amp or 6amp at 24VDC capacity
 - d. Input is 115 VAC 50/60 HZ using 3 wire line cord

2. An Owner's Representative initiating an emergency service call via fax notification will initiate emergency service. A service call will be considered an emergency if either a single door of the Door Access System, zone of the Intrusion Detection System, loss of a single camera or sequence event in Room 1302. In either case, the system shall be back in service within four hours of notification.
3. Normal service calls will be initiated by an Owner's Representative and shall be handled by the service agency within eight working hours. Working hours are defined as falling between 8 a.m. and Noon and between 1 p.m. and 5 p.m. on any non-holiday, Monday through Friday. Normal Service calls apply to any problems that affect the system to a lesser extent that defined for emergency service. Service Request forms will be supplied by the Contractor and the faxing or mailing of such a request form shall constitute notification by the Owner of a service request.

End of section

SECTION 28 00 00 –SECURITY

28 01 00 Operation and Maintenance of Security

28 01 10 Operation of Integrated Security System

A. OVERVIEW

1. The work covered under this section of the specifications consists of providing all labor, equipment, cabling, supplies and materials, and in performing all operations necessary for the "TURNKEY" and fully complete installation of a Security Monitoring and Annunciation System providing Access Control and Video Surveillance in accordance with the specifications and the accompanying drawings, except as specifically noted otherwise.

B. WORK INCLUDED

1. The Work shall include, but not be limited to, the following:
 - a. Provide and install Electronic Access Control System interfaced to door hardware provided through a separate contract.
 - b. Provide and install Video Surveillance system with software interface to Electronic Access Control System.
 - c. Provide separate Intrusion Detection System with integration to Electronic Access Control System and Video Surveillance System. Intrusion Detection System shall be independently monitored by a qualified UL certified alarm monitoring company.
 - d. Install door power supplies with interconnection cabling
 - e. Terminate all door cables at the Frame side of the door EPT or card reader and respective TER/TC
 - f. Install components in designated Enclosure in TR and Rack Frames in TC provided by the Division 27 10 00 Structured Cabling contractor.
 - g. Provide system programming, documentation, and training as required

C. FUNCTIONAL REQUIREMENTS

1. There are multiple modes of operation required by the systems involved in the project: Access Control, Intrusion Detection, Video Monitoring, and Graphics Display/Alarm. All control hardware and primary system components will be located in the TR (Room 1303). Primary monitoring will occur in the Security office suite and secondary monitoring in key administrator offices.
2. System programming will enable various system responses based upon the time frame of the event alarm. The systems will provide flexible scheduling that can match up to the wide variety of schedules

related to a K-12 school system. There are specific time frames and modes in which the systems will operate as defined below:

- a. Facility Lock Down Mode
 - 1) Can be done from multiple places in the software, cannot be done from a web browser.
 - 2) All controlled doors are placed in locked mode
 - 3) All proximity readers are rendered inoperable
 - 4) All interior cameras are in Record Upon Motion mode
 - 5) Exterior cameras remain in standard operational patterns
- b. Normal School Hours Mode – From first bell to last bell of the day the system will:
 - 1) Main Entry doors are left unlocked
 - 2) Main entry vestibule to commons doors, bus loop doors are placed in locked mode requiring presentation of credentials for entry
 - 3) Mode forces all visitors to sign in at the attendance or main office
 - 4) All other controlled doors are in lock mode requiring presentation of credentials for entry
 - 5) Upon presentation of credentials for entry at any locked door, the system will create an event including identity information and a video clip of the entry, starting 5 second prior to presentation of credentials, and log that event on the system
 - 6) Upon exit from any door other than main entry, the system will create an event including a video clip of the exit, starting 5 second before the exit event, and log that event on the system.
 - 7) All interior cameras in Record Upon Motion mode
 - 8) All exterior cameras are in normal pattern operation
- c. Student Entrance and Exit Mode – Local administrators will determine how many minutes before first bell and how many minutes after last bell this period will cover. The system will:
 - 1) Unlock all main entry, main entry vestibule to commons, and bus loop doors.
 - 2) All other controlled doors are in lock mode requiring presentation of credentials for entry
 - 3) Upon presentation of credentials for entry at any locked door, the system will create an event including identity information and a video clip of the entry, starting 5 second prior to presentation of credentials, and log that event on the system
 - 4) Upon exit from any door other than main entry, the system will create an event including a video clip of the exit, starting 5 second before the exit event, and log that event on the system.
 - 5) All interior cameras in Record Upon Motion mode
 - 6) All exterior cameras are in normal pattern operation
- d. Before and After School Hours – local administrators will define the hours for this operational mode. The system will:
 - 1) “First Card In” (a group of key people who arrive first every school day) will trigger entry into this mode.
 - 2) All controlled doors are in lock mode requiring presentation of credentials for entry
 - 3) Upon presentation of credentials for entry at any locked door, the system will create an event including identity information and a video clip of the entry, starting 5 second prior to presentation of credentials, and log that event on the system
 - 4) Upon exit from any door other than main entry, the system will create an event including a video clip of the exit, starting 5 second before the exit event, and log that event on the system.
 - 5) All interior cameras in Record Upon Motion mode
 - 6) All exterior cameras are in normal pattern operation
- e. Late Hours Mode – local administrators will define the hours (plus weekend and holidays) for this mode of operation. The system will:
 - 1) Can be done by schedule, not by motion.
 - 2) All controlled doors are in lock mode requiring presentation of credentials for entry
 - 3) Upon presentation of credentials for entry at any locked door, the system will create an event including identity information and a video clip of the entry, starting 5 second prior to presentation of credentials, and log that event on the system

- 4) All interior cameras will be in Record Upon Motion mode and detection of motion will trigger an alarm.
- 5) Building exterior cameras will:
 - a) Be moved to preset locations where each camera has a clear field of view to the area below the next camera
 - b) Camera field of view will exclude parking lots or streets or the system able to turn on masking function which accomplishes the same
 - c) Motion detection will trigger an event with associated video clip and logged onto the system
 - d) Play areas and fields cameras will remain in normal mode
- 6) When key personnel (coaches, fine arts teachers, administrators) present their credentials at specific doors, the system will:
 - a) With Amano alarm, we can integrate with any third party alarm pattern and configure our system to shunt portions or zones of the panel based on card reads
 - b) Can be done using combination prox and keypad reader, and pressing star after card presentation
- f. Special Events Mode – Local administrators will define which zones and doors are associated with specific events
 - 1) The minimum number of events listed herein:
 - a) Open House, Banquets
 - b) Athletic Events
 - c) Fine Arts Events
 - d) Community use or rental
 - 2) The system will enable the following functions to be changed while the overall facility is in Late Hours mode or Before and After School hours mode:
 - a) With regards to each zone of the facility; access control, intrusion detection or video alarms can be armed or shunted.
 - b) Specific doors can be placed in unlocked mode while all other doors, including interior traffic flow doors, remain locked.
 - 3) Each exterior camera can be placed in After Hours mode or standard pattern mode
 - 4) Community use or rental can be set for specific day and time or on a reoccurring schedule but the mode will not be initialized until the appropriate credentials are presented at a specific door (First-Card-In).

28 01 20 Badge Identification System (Owner Furnished Equipment)

- A. This system IS NOT part of the scope of work for the Security Monitoring and Annunciation System. The information herein is provided for informational purposes only. All faculty and building staff will be required to have a School ID card. The door hardware contractor will provide a RF based MicroProx FOBs for use with the access control system.

28 01 30 Door Access Control System (DACS)

- A. The campus is a “Closed Campus” which means the door are open at the beginning and end of the school day but closed at all other times (from opening bell, to last bell of the day). All visitors are required to check in through the school office. Therefore, the building staff must have egress to and from play areas and to the building before and after normal operating hours. This control system provides that access control.
- B. The 400i controller does not come standard in a rack mountable unit but can be upon request.
- C. The Owner will furnish one workstation for mounting in TR 1303 cabinets for interface to the Door Access Control system.

- D. Those remote Network Nodes will be located in the same room or remote TC locations and communicate with Door Interface Panels which are in turn interfaced to RF/Proximity integrated locksets located on selected doors. All other exterior doors utilize a center hinge based DPS (door Position Switch) which connects directly to the Network Node. The Door Control Panels, card readers, and door position switches are provided through a separate contract.

- E. Authorized Personnel will enter information into the system database regarding people who will have access rights and which doors they will have access rights to. That information will be downloaded to the door control units for real-time operation. The door control units will store all activities and download their logs to the central control unit for archiving. The central control unit will be able to generate various reports regarding use of the system. The central control unit will also be able to place doors in alarm mode or remove them from alarm mode status based on a preprogrammed time frame or real-time commands from the central control unit.

- F. The IP Based Control Unit will function as the Graphic Display/Alarm Annunciation System providing a graphical view of the facility and identify icons located on the graphics display associated with every alarm point in the Electronic Security System. The system will also interface with the Electronic Surveillance package for coordination of camera images with alarm points. The system will be able to:
 - a. Integration of all software modules, Access Control, Video Management, and Alarm Monitoring, into a single program.
 - b. Utilize the alarm inputs to and from the Electronic Surveillance package and all other security devices and provide alarm event logging and reporting.
 - c. Utilize alarm outputs to provide reset functions for all other security systems.
 - d. Files accepted are JPEG, GIF, BMP
 - e. Supports live on-screen, in-window PTZ video display
 - f. Supports multiple GUI workstations via PC Network

- G. The 400i has its own Linux OS, but is not an embedded web server. The web server is built in the software.

- H. Site maps or other drawings are easily loaded directly into the GUI where they can be “seeded” with special “link icons”. The device icons can be selected from predefined tool bar and dropped onto the drawing. Icon configuration menus are then presented allowing labeling of the icon and quick association of the icon with a hardware device. The installer may also drag and drop configured devices directly from tables provided in the software module. Those tables represent a fully integrated user-friendly spreadsheet-like interface for entering video systems camera titles, sequences, sequences, alarm responses, and other configuration features. This contractor will be responsible for the import and initial setup/population of the graphical maps.

- I. The configuration tables within the module will be internally “linked” to the map system. The titles of camera icons on the maps are automatically changed when corresponding entries are made to the camera table. Correspondingly, the table entry for a particular device icon can be called automatically into view with simple mouse click on the icon. All functions of the video switcher/control unit, including PTZ system control are fully operational via the graphical control panel.

- J. This contractor will coordinate their work with the existing Door Hardware contractor on site. This will include a site coordination meeting to confirm the specific door number and locations coordinated with the Remote Nodes located in Wiring Closets throughout the facility.

- A. Interior and exterior IP cameras will be located throughout the facility and interconnected to the Security Video Servers via the building wide Local Area Network. The system will be capable of managing, controlling, and recording up to Two Hundred and Thirty cameras, (provide IP camera license for Two Hundred and Forty cameras). All cameras will have owner defined location titles superimposed on their respective images.
1. The building exterior is covered with mega-pixel exterior camera domes programmed to record upon movement in their respective coverage areas. As part of the installation, the contractor will use the digital image cropping features of each camera to restrict the image to only those areas of interest to the owner (eliminating views of walls or areas where people will not travel through).
 2. Ceiling mounted and wall mounted camera domes containing cameras will be strategically located in the hallways and major corridor entrance. Those cameras will be interfaced with the DACS (Door Access Control System) through the VMS (Video Monitoring System). An alarm from one of those systems will cause the Video Monitoring system to position a related camera to the alarm area, display the camera on the Security Room monitors, and initiate video recording of the event. As part of the installation, the contractor will use the digital image cropping features of each camera to restrict the image to only those areas of interest to the owner (eliminating views of walls or areas where people will not travel through). The contractor will also use a mask to prevent viewing of private property adjacent to the facility and viewable from a camera.
 3. An interior or exterior camera will be associated with every door that is controlled through the Door Access Control System. Upon alarm of an unauthorized opening of the door will cause the Electronic Surveillance system to display the related camera on the main Security Room monitor and initiate video recording of the event. The school has the option to record in single frame mode every use of all or specific controlled door. As part of the installation, the contractor will use the digital image cropping features of each cameras to restrict the image to only those areas of interest to the owner (eliminating views of walls or areas where people will not travel through).
 4. The contractor will provide and install two Color Video Intercom stations, one located at each Gatehouse.
 5. The VMS software with its associated servers and storage will be located in Room 1303. The servers will receive input from all interior and exterior cameras, switch those cameras between a monitoring function or alarm function, and provide digital pan/tilt/zoom control of all cameras with those capacities. All features of the system will be fully integrated into the DACS controller acting as the integration controller for the total system.
 6. The Owner will furnish three dedicated workstations with 26" LCD panels for monitoring of the VMS in the SRO Office Room 1134. Enable continuous, simultaneous, real-time viewing of a MAXIMUM sixteen camera locations (with possible sequencing) at one time through the use of the remote client software function in the Video package. In alarm mode, the multi-window sequenced signal will be replaced with a full screen display of the camera related to the alarm location.
 7. The access control system should be integrated to a true intrusion detection system to enable central monitoring.
 8. Provide software, as required, to enable District monitoring locations to view DACS and Electronic Surveillance events in real-time or playback mode through the school Local Data Network and District Wide Area Network.

28 05 00 Common Work Results for Security

28 05 14 IP Configuration

- A. This contractor will utilize third party software (in addition to manufacturer software) for the discovery and documentation of all IP components associated with this system. Additionally, the contractor will document the following information for each device:
 - 1. Serial Number of device
 - 2. MAC address of device
 - 3. IP address used by the component and any additional pertinent IP information
 - 4. Patch Panel port the components cable is terminated on.
 - 5. Switch port the component is connected to.
- B. This contractor will change all factory presets passwords for cameras to passwords as designated by the owner's representative and lock down the IP components once the system is set.

28 05 53 Identification for Communications Systems

- A. Custom Panel Identification and Nomenclature
 - 1. Switches, connectors, jacks, receptacles, outlets, cables and cable terminations shall be logically and permanently marked in a manner approved by the Owner. Custom panel nomenclature shall be engraved, etched, or screened. Submit a sample layout for Architect approval.
- B. Terminal Blocks and Rack Mounted Equipment Identification
 - 1. All terminal blocks shall be clearly and logically labeled in a manner acceptable to the owner as to their function, circuit, or system as appropriate. Handwritten identification is not permitted. The contractor may use metallized polyester permanent identification labels with black printing on silver, white, or another light color background or engraved dual layer phenolic labels.

28 06 00 Schedules for Communications

28 06 10 Matrices

The following documents titled "Door Matrix" and "Camera Matrix" delineates the specific location and quantity of system ports and components located in each space in the facility. The following Definitions provide the legend for column designations.

DOOR MATRIX

DOOR – Indicates the Door Number indicated on the Architectural drawings

LOCATION – Indicates the location of the door based on architectural drawings

INTG MRTS – *Integrated Mortise Lockset* – Indicates a location where the door hardware provider will be providing and installing a low wattage integrated mortise type lockset. The integrated lockset contains the Card Reader, Latch Control, RTE, DPS, and Latch bolt monitoring at the lockset location for all door control functions which will be interfaced to the Access Control systems.

INTG E-TRM – *Integrated Exit Trim Lockset* – Indicates a location where the door hardware provider will be providing and installing a low wattage integrated exit trim type lockset. The integrated lockset contains the Card Reader, Latch Control, RTE, DPS, and Latch bolt monitoring for all door control functions from the exit trim and latch location which will be interfaced to the Access Control systems.

E-TRM LTCH – *Exit Trim Latch* – Indicates a location where the door hardware contractor will be providing and installing a low wattage latch control for the exit trim which will be interfaced to the Access Control systems.

ELEC STRK – *Electric Strike* – Indicates a location where the door hardware contractor will be providing and installing an electric strike which will be controlled by the Access Control System.

INDP CR – *Independent Card Reader* – Indicates a location where this contractor will provide and install an RF Carder Reader capable of reading an RF card within six inches of the reader and will be interfaced to the Access Control system.

DOOR DPS – *Door Based Door Position Switch* – Indicates a location where the door hardware contractor will provide and install a door position switch at the latch position of this door. Header of an existing door.

HNG DPS – *Hinge Door Position Switch* – Indicates a location where the door hardware contractor will provide and install a door position switch at the hinge side or top jamb of the door.

RTE SW – *Request To Exit Switch* – Indicates a location where the door hardware provider will provide and install a Request to Exit Switch in the exit trim or interior lever of the door.

RMT I/O – *Remote Input/Output* – Indicates a location where an additional input or output to or from the access control system will terminate.

VID IC – *Video Intercom* – Indicates a location where this contractor will install a color video door intercom subsystem.

TR/TC – Indicates the specific location where a door cable will terminate

CAMERA

CAMERA – Indicates the camera number for this camera.

LOCATION – Provides an environmental or plan based location where the camera is located.

INT FXD – *Interior Fixed Position Camera* – Indicates the location of a 1.3 mega pixel IP Video security dome camera with vari-focal lens as specified within the environmentally controlled building

INT SHRT – *Interior Short Throw Camera* – Indicates the location of a VGA IP Video security dome camera with fixed lens within the environmentally controlled building

INT WID – *Interior Wide Angle Camera* – Indicates the location of a 1.3 mega pixel IP Video security dome camera with special wide angle lens as specified within the environmentally controlled building

EXT MEG1 – *Exterior 1.3 Mega pixel Camera* – Indicates the location on the building exterior of a 1.3 mega pixel IP Video security dome camera with vari-focal lens, heater, and blower powered by PoE.

EXT MEG5 – *Exterior 5Megapixel Camera* – Indicates the location on the building exterior of a 5 mega pixel IP Video security dome camera with vari-focal lens, heater, and blower powered by PoE.

180 – *One Hundred Eighty Degree Camera* – Indicates the location of a camera with 180 degrees of coverage. When located for an exterior location, provide outdoor dome.

EXT BUL – *Exterior Bullet Camera with IR* – Indicates the location for a small bullet/cylinder shaped exterior camera with integrated sun shield and IR emitters capable of extreme temperature environment operation without blower and heater.

WALL MNT – Indicates the camera and housing are wall mounted

CEIL MNT – Indicates the camera and housing are ceiling mounted.

PEN DAN – Indicates the camera and housing will use a pendant type of mounting system.

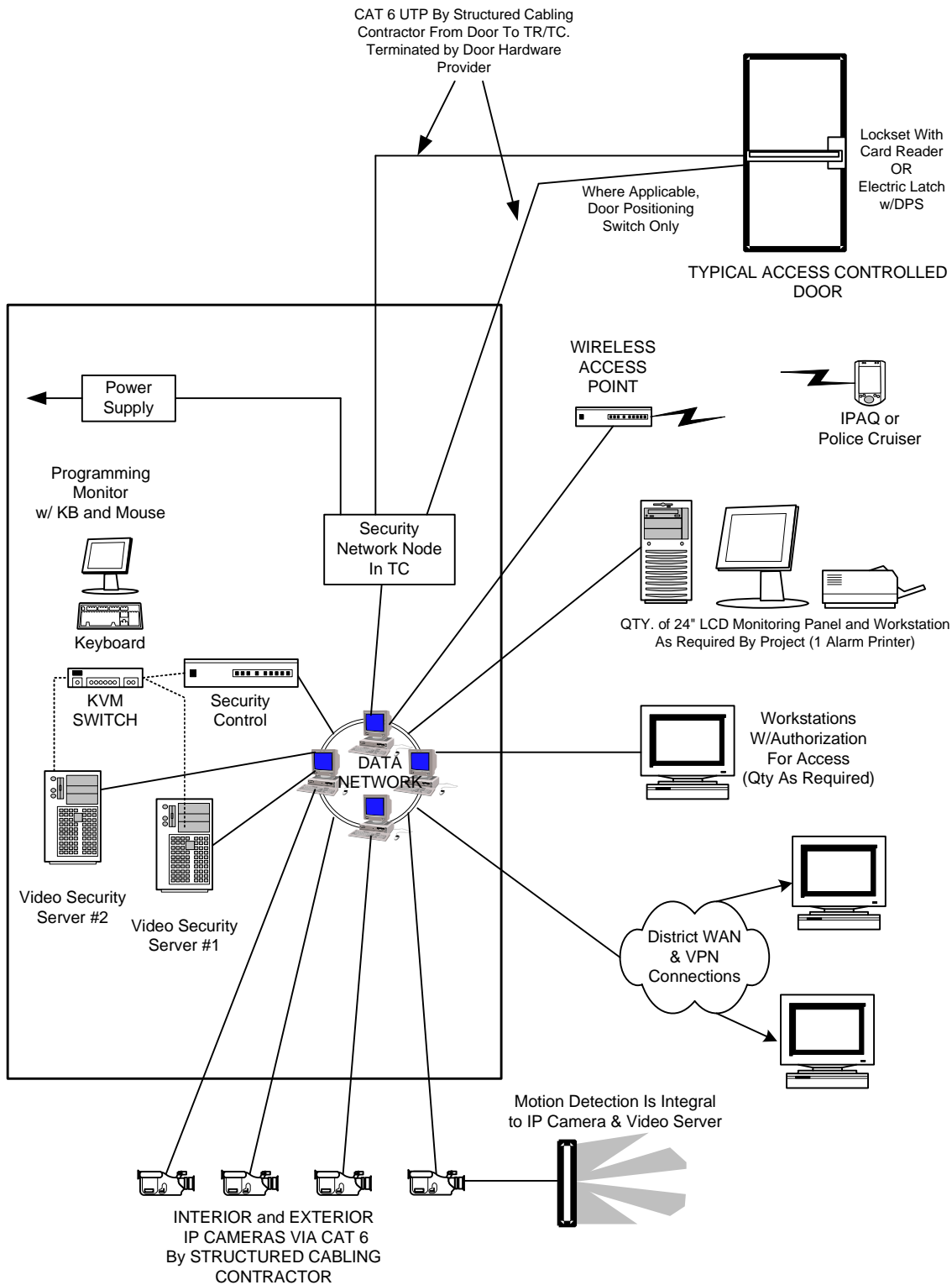
CRNR MNT – Indicates that the camera housing is mounted at the corner of the building

POLE MNT – Indicates the camera is mounted on a pole. If necessary also provide a pole mounted junction box for power transformer and signal transmission components.

TR/TC – Indicates the specific location where a data port has been provided for security camera connection to the data network

28 06 20 Conceptual Diagrams

The following represents a conceptual diagram of the Security Systems as specified herein.



TITLE:	Conceptual Diagram Security System
PROJECT:	CCSD - COLLETON HS
DATE:	12/18/09 BY: GEM



1251 NW Maynard #355
Cary, NC 27513
(919)678-8934

07 00 Programming of Electronic Safety and Security

- A. This contractor will be responsible for the initial set up and programming of the Electronic Security Systems as specified herein. The initial set-up and programming will include the following
 - 1. Prior to initial programming of the system the consultant will coordinate a meeting with the building Principal (and their team if applicable) and the contractor to review the capabilities of the DACS, IDS, and Electronic Surveillance System.
 - 2. At the same meeting the consultant, the building principal (and their team if applicable), and contractor will review the interlocking capabilities of those systems based upon Sections 28 01 10.30 and 28 01 30 as defined in this section.
 - 3. Based upon the review sessions as noted in part 1) and 2) the consultant will document in writing the operational parameters, and text response if applicable, for the DACS and Electronic Surveillance systems as requested by the Principal (Owner's Program Document). The contractor will submit that program description to the Owner for review and approval.
- B. The contractor will then import, and if necessary clean up, DXF floor plan(s) of the facility and populate that drawing(s) with the appropriate symbols representing all devices installed through the Door Access Control System, Intrusion Detection System, and this Division 28 scope of work. The contractor will provide programming and support to meet the operational parameters of the system as outlined in the Owner Security Program Document.
- C. The contractor will provide three copies of the system configuration files, including graphic maps and interaction functions, and provide those copies to the Owner.
- D. The contractor will provide ONE additional assessment/programming days (Eight man hours) as part of their proposal to be delivered within the first year of beneficial use of the system. Within no less than six month of first beneficial use of the system and prior to the first anniversary of beneficial use (or at the discretion of the Principal), the contractor will schedule an assessment meeting with the Principal and his team to determine if the operational parameters of the system meet their needs. The contractor will document any requested changes, update the Owner Security Program Document, and revise the system program to meet the changes as requested.

28 08 00 Commissioning of Electronic Safety and Security

- A. GENERAL OVERVIEW OF COMMISSIONING METHODOLOGY
 - 1. Every system and component as specified herein will be verified and tested for correct installation and operational parameters. Completion of the process as defined herein will place the project into "Substantial Completion" status. The contractor for each system contained herein shall provide the following.
 - 2. Confirm that each door operates correctly based on the installation of:
 - a. Integrated lockset
 - b. Electric latch with latch DPS
 - c. Door leaf with DPS
 - d. Individual card reader
 - e. All components and properly interfaced to the access control system and the system provides logging of all actions.
 - 3. Confirm the following for each camera.
 - a. Dome or housing is clean, without smudges or fingerprints from installation.
 - b. All cameras are properly oriented to their respective coverage area.

- c. Fixed lens cameras are properly focused for their respective coverage area.
- d. Documentation for each component as outlined in Part 28 05 14

B. VERIFICATION TEST REPORT

- 1. Upon substantial completion of each system, a contractor representative will test all features of the system at every location of the system within the facility for operational requirements as defined in the systems respective section. Document, on a contractor generated form, the compliance of every location and the testing individual(s) will initialize the results of each location test. Submit a written report detailing the result of initial adjustments and verification tests including all relevant drawings, charts, and photographs. This report shall be completed and submitted to the Owner for review at least five (5) days prior to acceptance testing.**

C. ACCEPTANCE TESTING

1. The Acceptance Testing will be facilitated and performed by the Contractor in the presence of the Owner and Consultant. Coordinate this period so that free access, work lighting and electrical is available on the site. Acceptance Testing will confirm 10% of the total system locations and functions as reported by the Contractor in their Verification Test Report
 - a. Provide testing equipment and required in the commission of each system and make it available at all times, on site, during the testing period. Prior to the testing appointment, provide to the Owner a listing of the specific equipment to be made available.
 - b. Be prepared to verify the performance of any portion of the system by demonstration, viewing tests, and instrumented measurements.
 - c. Should the contractor schedule an Acceptance Test and the system or components are not ready for or fail Acceptance Testing, the contractor will pay for all subsequent trips and man-hours required for the Consultant to properly document specification conformance by the contractor. The Owner will have the right to reduce pay requests or final application of payment to the contractor in an amount equal to the travel costs and man-hours expended by the Consultant and charged to the contractor. The Owner would then pay the Consultant from the funds withheld from the contractor.
 - d. Upon witness of the Acceptance Testing and the determination, in the Owner's opinion, that the Contractor has falsified the Verification Test Reports, the Owner has the right to hire an Independent Testing Agency to provide outside verification of the results. Falsification of the test results is defined as cables shown as testing correctly in the Verification Report that fail during the Acceptance Testing. (The Contractor has the right to hire an Independent Testing Agency approved by the Owner directly.) Furthermore, the Owner will have the right to reduce pay requests or final application of payment to the Contractor in an amount equal to the travel costs and man-hours expended by the Independent Testing Agency and Consultant and charged to the contractor. The Owner would then pay the Independent Testing Agency and Consultant from the funds with held from the contractor.

End of section

SECTION 28 20 00 – VIDEO SURVEILLANCE

28 22 13 VIDEO SURVEILLANCE CONTROL AND MANAGEMENT SYSTEMS

- A. Interior and exterior IP based cameras will be located throughout the facility and interconnect to their respective servers via the local area network. The system will utilize multiple servers and Network Attached Storage as required to provide 14 days of recording for all cameras. All cameras will have Owner defined location titles superimposed on their respective images.
- B. Ceiling mounted domes containing cameras will be strategically located in the hallways and major corridor entrances. The contractor will use Digital Image Cropping features of the cameras to the actual scene where the Owner requires monitoring and to minimize file size requirements. Those cameras will be interfaced with the Network Video Recorder System and which interfaces to the Door Access Control System. An alarm from one of those systems will cause the Video Monitoring system to display the camera on the Security Room monitors, and initiate video recording of the event.
- C. The building exterior is covered with IP camera domes that will be programmed to continuously record upon motion across their respective coverage areas during normal facility operational hours. The contractor will utilize Digital Image Cropping to restrict the recorded scene to the areas of interest as defined by the Owner. During “Custodial Hours” and “After Hours” operation periods, the exterior camera motion detection will be reset to provide a digital perimeter around the facility.
- D. An interior or exterior camera will be associated with every door that is controlled through the Door Access Control System. Upon alarm of an unauthorized opening of the door will cause the Video Monitoring system to display the related camera on the main SRO Office monitor and initiate video recording of the event. The school has the option to record in single frame mode every use of all or specific controlled door.
- E. The headend for the Electronic Surveillance system will be located in Room 1303. The primary unit will be Network Video Recorder Systems (as determined by the contractor during document submittals) that will receive input from all interior and exterior cameras via the network and switch those inputs between a monitoring function or alarm function. The system will provide high resolution recording of mega pixel cameras and enable digital zoom of recorded events.
- F. Additionally, the system will receive control signals from the DACS related to the Intrusion Detection System. The system will be programmed to react to alarms from those systems in a specific manner and display the alarmed area on the Security Monitor and start recording of the event on the NVR.

28 23 16 VIDEO SURVEILLANCE MONITORING

- A. The Owner will furnish three workstations with 26” LCD panels as the primary security monitoring station for this facility in the SRO Office, Room 1134. Enable continuous, simultaneous, real-time viewing of all camera locations (with possible sequencing) through the use of the system software function. In alarm mode, the multi-window sequenced signal will be replaced with a full screen display of the camera related to the alarm location.
- B. System will come with an unlimited license for Remote Client software. Interface the product for computers with dual screen capacity (one for personal use and the other for security cameras display) in the Principal (One), Assistant Principals (Ten), and up to FIVE other remote users compatible with Windows XP Pro. Owner Furnished Dedicated workstations with 26” LCD flat panel displays will be provided and this contractor will install the Remote Client software and provide initial configuration of those system.
 - 1. The Remote Client software will be capable of:
 - a. Remote viewing of full quality images in both M-JPEG, MPEG4, and/or H.264 simultaneously

- b. View live camera video from 1 to 24 cameras simultaneously (due to processing requirements do not enable more than 24 cameras per workstation).
- c. View/playback a mix of many cameras in the same view, up to 8 (Even from multiple servers)
- d. Preview window for event list
- e. Sophisticated point-and-click control with zoom into marked rectangle
- f. Set individual remote user profiles
- g. User-definable remote view payouts
- h. Advanced compression in the video streaming from server to client provides better use of bandwidth.
- i. Provide product as manufactured by Amano, ipConfigure, Lenel (Occularis version), Milestone Systems, OnSSI, or equivalent from other manufacturers.

28 23 16 DIGITAL VIDEO RECORDERS

A. The Network Video Recording System will be comprised of Windows XP Pro or Windows Vista Business Pro, or Windows Server 2003 or 2008 (All OS operating in 32 bit mode) compatible Security Video Server software license installed on an Owner Furnished server with storage as required to meet the Owner requirements. Server as required by camera configuration (determined by successful contractor) with each server capable of simultaneously recording or viewing using the MPEG4 or H.264 (MPEG3 Part 10) compression scheme. The owner will provide the actual servers and associated Network Attached Storage systems with storage configured in RAID 5.

1. As part of the project submittals and prior to ordering equipment, the contractor will provide, based on the video software provided with their proposal, server and storage requirements which meet the project scope. Provide storage estimates based on the following:
 - a. Provide server quantity and performance requirements based on the number of cameras included in the project.
 - b. All cameras will be set to record on Video Motion Detection
 - c. Cameras will be set at a maximum of 15 FPS at their highest resolution rate. Please note that higher resolution mega pixel cameras will record at their highest available frame rate (i.e. 5 Mega pixel camera has a maximum frame rate of 10fps)
 - d. Estimated use (including weekends) is an average of ten hours per day of recording capacity per camera.
 - e. Provide storage requirements for a minimum fourteen days of recording capacity.
2. The Network Video Recording System software will provide the following features and functions.
 - a. Video and Audio Recording
 - 1) Simultaneous digital recording, viewing, and playback
 - 2) Multi-channel audio recording with instant playback
 - 3) Simultaneous support for MJPEG, MPEG4, H.264 cameras and video encoders
 - 4) Maximum number of cameras simultaneously recording and viewed – FIVE
 - 5) Software will work on a computer with dual video card for multiple monitor displays.
 - 6) Provide secure high speed database holding video streams
 - 7) Recording and viewing speed only limited by hardware.
 - b. Video Motion Detection (VMD)
 - 1) Built-in Real Time fully adjustable camera independent VMD
 - 2) VMD can be set through global modes
 - 3) VMD exclude zones
 - 4) VMD activated recording
 - 5) VMD activated frame rate speed up
 - 6) VMD activated alerting through e-mail.
 - c. Provides for electronic Pan/Tilt/Zoom of all IP Cameras
 - d. Search, Export, and Secure Data
 - 1) Instant search on recordings based on date/time and activity/alarm (VMD)
 - 2) "Smart Search" for specified image zones and objects

- 3) Evidence can be generated as a printed report with time and date stamp, as a JPEG file, or as an AVI film, or sent via E-Mail.
 - 4) Export audio recordings in WAV format or including in AVI film
 - 5) Export of "Evidence CD" contains native database export and configured Recordings Viewer for instant, easy viewing by authorities
 - 6) Encryption and password protection for exported recordings and files
 - 7) Audit logs of exported evidence by user and file
 - 8) Audit logs of Remote Client use activity by time, locations, and cameras
- e. Administration
- 1) "On-the-Fly" configuration changes while recording is in operation
 - 2) Hourly to daily database archiving options
 - 3) Archiving can be automatically moved to a network drive for more savings in storage capacity on the local server –with images still available transparently on playback
 - 4) Option to hide Administrator button for other users
 - 5) DNS support
- f. Provide product as manufactured Lenel (Occularis version), Milestone Systems, OnSSI Occularis and Amano.

PROVIDE QUANTITY OF: License for system as described with 240 cameras

28 23 23 VIDEO SURVEILLANCE SYSTEMS INFRASTRUCTURE

A. Cabling

1. All CAT 5e cabling utilized for connection to IP cameras is provided through a separate contract and is not part of this scope of work. All IP cameras will be powered through the local data switch using 802.3af Power over Ethernet functionality.
2. All fiber cable required for connection to cameras located on Band Towers, at Gatehouse, or Baseball and Softball Press boxes is provided through a separate contract and is not part of this scope of work.

B. Uninterruptible Power Supply (UPS)

1. Provide a true on-line UPS system providing a minimum of 20 minutes backup power for the system servers and storage. Provide UPS system as manufactured by Para Systems, Liebert, Sola, or Best for the Security Video Server as specified herein. The UPS must be capable of interfacing to the Programming PC with an alarm function that enables the PC and System Controller to execute an orderly shut down prior to complete loss of power for the purpose of protection the databases stored on those units.

PROVIDE QUANTITY OF: ONE Unit Sized for Each Server and Associated Storage

C. Flexible Conduit for Ceiling Mounted Cameras

1. This contractor is responsible for providing a flexible conduit whip when ceiling mounted cameras are located in ceiling areas within eight feet of a cable tray. The contractor will clamp the flexible conduit to the tray and provide a ceiling tile bridge with octagon back box for ceiling mounted cameras locations. Please note that conduit has been provided through the site electrical contractor for all ceiling mounted cameras located more than eight feet from the cable tray, interior wall mounted cameras, and all exterior cameras.

28 23 29 VIDEO SURVEILLANCE REMOTE DEVICES

A. Interior Fixed Dome Network Camera

1. The Interior Fixed Dome Network Camera is a compact day/night unit with clear polycarbonate dome glass and tamper proof case which can be wall or ceiling mounted. The unit will have the following features and functions:
 - a. 1/3" (Alternate provider up to 1/2") progressive scan, 1.3 mega pixel Image Sensor
 - b. Maximum resolution at least 1280H by 720V resolution and up to 30 frames per second
 - c. Minimum lamination of 0.1 in B/W mode
 - d. Motorized IR Cut Filter
 - e. Provides H.264 video compression
 - f. Provide with 3.1mm-8.9mm mega pixel varifocal lens, DC—iris, and remote focus and zoom
 - g. Programmable backlight compensation, white balance, exposure control, exposure zones
 - h. IP Network based unit which can be used with IEE 802.3af Power Over Ethernet
 - i. Provides for Ethernet 10/100 connection via RJ45, Mini DC power jack, 3.5mm jack in and out for audio, and terminal block for 1 alarm input and 1 output
 - j. Overall dimensions are 5.625" D by 4.75"H, weighing 24 oz
 - k. Product as manufactured by Sony, Model SNC-DH120 or equivalent by other manufacturers.

PROVIDE QUANTITY OF: ARBM (As Required By Matrix)

B. Interior Short Throw Dome Network Camera

1. The Interior Fixed Dome Network Camera is a compact color unit with clear polycarbonate dome glass and tamper proof case which can be wall or ceiling mounted. The unit will have the following features and functions:
 - a. 1/3" progressive scan, 0.7 mega pixel Image Sensor
 - b. 1024x720 resolution (HD720p) up to 25 frames per second
 - c. Minimum lamination of 0.2 Lux
 - d. Provides H.264 compression
 - e. 3.0mm/F2.0 fixed iris lens.
 - f. IP Network based unit which can be used with IEE 802.3af Power Over Ethernet <2.8 watts
 - g. Provides for Ethernet 10/100 connection via RJ45, Mini DC power jack,
 - h. Product as manufactured by IQinVision, Model IQD31SI or equivalent by other manufacturers.

PROVIDE QUANTITY OF: ARBM (As Required By Matrix)

C. Interior Wide Angle Fixed Dome Network Camera

1. Ceiling Mounted
 - a. The Wide Angle Fixed Dome Network Camera is a 1080P camera with 110° lens mounted in a seven inch recessed dome unit with clear polycarbonate dome glass which can be serviced from below the ceiling. The unit will have the following features and functions:
 - 1) 1/3" progressive scan, 2.0 mega pixel CMOS Image Sensor
 - 2) Up to 1080p (1920x1080) resolution and up to 30 frames per second
 - 3) Minimum lamination of 0.3 in color mode with motorized IR cut filter
 - 4) Provides H.264 video compression
 - 5) Camera has CS lens mount, provide with Theia SYS110A wide angle lens, with DC auto-iris IR corrected lens which uses "Linear Optical Technology" enabling no barrel distortion.
 - 6) IP Network based unit which can be used with IEE 802.3af Power Over Ethernet
 - 7) Provides for Ethernet 10/100 connection via RJ45, analog video port for local focusing, Mini DC power jack, 3.5mm jack for audio and terminal block for 1 alarm input and 1 output.

- 8) Product as manufactured by IQinVision, Model IQ732SI with Theia SYS110A lens or equivalent by other manufacturers.
- 9) Ceiling Mounted - Provide and install one Videolarm MR7 Recessed camera dome unit with each camera or equivalent by other manufacturers. This contractor will include in their installation cost, the requirement to “dead hang” the dome unit from the structure of the facility using approved support methods. The weight of the unit cannot be on the ceiling gird system.
- 10) Wall Mounted – Provide and install one Videolarm IPCH8 wall housing for each wide-angle camera as indicated by the Camera Matrix.

PROVIDE QUANTITY OF: ARBM (As Required By Matrix)

D. Exterior Fixed 1.3 Mega pixel Dome Network Camera

1. The Exterior Fixed 1.3 Mega pixel Dome Network Camera is a compact day/night unit with clear polycarbonate dome glass and tamper proof case which can be wall or pendant mounted. The unit will have the following features and functions:
 - a. 1/3” progressive scan, 1.3 mega pixel CMOS Image Sensor
 - b. Up to 1280H by 1024V resolution and up to 15 frames per second
 - c. Minimum lamination of 0.2 Lux @ F1.4 in color mode and 0.05 Lux @ F1.4 in B/W mode
 - d. Motorized IR Cut Filter
 - e. Provides H.264 video compression
 - f. Provide with 2.5mm-7mm mega pixel varifocal lens with auto-iris
 - g. 3-axis camera gimbal with 360° pan, 90° tilt, and 360° z-axis.
 - h. Programmable backlight compensation, auto-matrix white balance, with Dynamic range of 60dB and maximum SNR of 45dB.
 - i. Provides Digital Image Cropping function.
 - j. IP Network based unit which can be used with IEEE 802.3af Power Over Ethernet
 - k. Exterior unit provides blower and heater operational over IEEE 802.3af with operating range of -20°C or 50°C. (NOTE – contractors providing equivalent camera which require external power for heater and blower must provide additional power supplies located in wiring closets and additional plenum rated power cable from wiring closet to camera.)
 - l. Provides for Ethernet 10/100 connection via RJ45, Mini DC power jack, 3.5mm jack for audio, and terminal block for 1 alarm input and 1 output
 - m. Product as manufactured by IQinVision, Model IQA21N with IQA-WM wall mounts adapter or equivalent by other manufacturers.

PROVIDE QUANTITY OF: ARBM (As Required By Matrix)

E. Exterior Fixed 5 Mega pixel Dome Network Camera

1. The Exterior Fixed 5 Mega pixel Dome Network Camera is a compact day/night unit with clear polycarbonate dome glass and tamper proof case which can be wall or pendant mounted. The unit will have the following features and functions:
 - a. 1/2” progressive scan, 5.0 mega pixel CMOS Image Sensor
 - b. Up to 2560H by 1920V resolution and up to 10 frames per second
 - c. Minimum lamination of 0.3 Lux @ F1.4 in color mode and 0.05 Lux @ F1.4 in B/W mode
 - d. Motorized IR Cut Filter
 - e. Provides H.264 video compression
 - f. Provide with 3.5mm-12mm mega pixel varifocal lens with auto-iris
 - g. 3-axis camera gimbal with 360° pan, 90° tilt, and 360° z-axis.
 - h. Programmable backlight compensation, auto-matrix white balance, with Dynamic range of 60dB and maximum SNR of 45dB.
 - i. Provides Digital Image Cropping function.

- j. IP Network based unit which can be used with IEEE 802.3af Power Over Ethernet
- k. Exterior unit provides blower and heater operational over IEEE 802.3af with operating range of -20°C or 50°C. (NOTE – contractors providing equivalent camera which require external power for heater and blower must provide additional power supplies located in wiring closets and additional plenum rated power cable from wiring closet to camera.)
- l. Provides for Ethernet 10/100 connection via RJ45, Mini DC power jack, 3.5mm jack for audio, and terminal block for 1 alarm input and 1 output
- m. Product as manufactured by IQinVision, Model IQA25N with IQA-WM wall mounts adapter or equivalent by other manufacturers.

PROVIDE QUANTITY OF: ARBM (As Required By Matrix)

F. 180 Degree Network Camera

1. The 180 Degree Panoramic Camera is a compact day/night unit with clear polycarbonate dome glass and tamper proof case which can be wall or pendant mounted. The unit will have the following features and functions:
 - a. 1/2" progressive scan, (Four) 2.0 mega pixel CMOS Image Sensor
 - b. Up to 6400H by 1200V resolution up to 5.5 frames per second
 - c. Minimum lamination of 0.3 Lux @ F1.4 in color mode and 0.05 Lux @ F1.4 in B/W mode
 - d. Motorized IR Cut Filter
 - e. Provides H.264 video compression
 - f. Provide with 3.5mm-12mm mega pixel carioca lens with auto-iris
 - g. Provides Digital Image Cropping function.
 - h. IP Network based unit which can be used with IEEE 802.3af Power Over Ethernet
 - i. Provides for Ethernet 10/100 connection via RJ45
 - j. Product as manufactured by Arecont Vision, Model AV8185 with Dome 6-0-W wall mount exterior dome or equivalent by other manufacturers.

PROVIDE QUANTITY OF: ARBM (As Required By Matrix)

G. Exterior Fixed Lens Network Bullet Camera

1. The Exterior Fixed Lens Network Bullet Camera is a compact IP66 weatherproof supported tubular unit with sunshield, integrated IR LEDs. The unit will have the following features and functions:
 - a. 1/4" 5MP Lumii image sensor optimized for low-light performance
 - b. f3.3 -12 mm, IR corrected varifocal lens
 - c. Minimum lamination of 0 lux at 30m with IR on.
 - d. IR automatically switches on at <10 lux and to B/W under 4 lux
 - e. MPEG4 Compression for HD 720P
 - f. IP Network based unit which can be used with IEE 802.3af Power Over Ethernet
 - g. Provides for Ethernet 10/100 connection via RJ45
 - h. Overall dimensions are 3" Wide by 3" Tall by 9" Long, weighing 1.5 lbs
 - i. Provide unit with Camera Bracket, and pole mount adapter as required.
 - j. Product as manufactured by Mossea Model NCR 875-HN5 or equivalent by other manufacturers.

PROVIDE QUANTITY OF: ARBM (As Required By Matrix)

H. Video Intercom Station

1. This contractor will provide and install a video intercom station, including all necessary cabling for each Gatehouse consisting of one-way video and bi-directional audio as follows:

- a. Provide and install one Aiphone AX-DV surface mount color video door station mounted over 1 gang flush mounted electrical box with conduit connecting to the interior of the Gatehouse.
 - b. Provide one Aiphone AXW-AVT breakout box with PS-2420UL power supply and interconnect to the AX-DV video door station.
 - c. Provide and install one AXIS 247S video server for conversion of the composite video output of the AXW-AVT and processing as an IP Video signal to the NVR system.
 - d. Provide and install one Viking K-1900-5 auto-dialer and interface the unit to the audio input and output of the AXW-AVT. The Viking auto-dialer will in turn be connected to an FXS gateway for the campus VoIP System.
2. Using these components, the video will be processed by the NVR system and the audio will be processed by the campus VoIP system.
 3. The consultant will provide detailed diagram and verbiage providing an operational overview of this subsystem to the successful contractor.

PROVIDE QUANTITY OF: TWO Subsystems

28 23 50 Owner's instructions

- A. The contractor shall provide detailed "programming/operator" and "user" training for the following items to security personnel, administrative team personnel, both main office and house level personnel. Minimum training time provided will be twenty-four hours of training divided into a minimum of six sessions. Sessions will be last a maximum of four and minimum of two hours in length and the second and third sessions will be two hours in length. The first sessions will occur prior to final acceptance. Utilize a video cam system and tape all training sessions. Provide two copies of the training session tape to the Owner.
 1. User Training
 - a. Security Staff in use of the system.
 - b. Administrative Team instruction on the basic operation and functions of the system.
 - c. District level personnel instruction on the basic operation and functions of the system.
 2. Programming/Operator Training
 - a. Provide instruction to District personnel, quantity as determined by the Owner, regarding the programming capabilities of the systems (the general capacities, not the specific functions). Provide this training for all systems involved in the Security Monitoring and Alarm Annunciation scope of work.
 - b. Provide basic troubleshooting training for operators on all system installed under this scope of work.

28 23 60 Warranty

- A. The Contractor shall guarantee that the system components and labor required to meet the scope of work defined in this specification for a period of TWO years after final acceptance by the Owner. The Contractor will exhibit that a full service office, capable of troubleshooting and repairing any system failure, is located within seventy-five miles of the project site. If a "subcontractor" is utilized for this requirement, provide documentation that the subcontractor is factory certified as a system service center and the subcontractor is under a contractual arrangement with the contractor. Relationships initiated for the sole purpose of meeting the requirements of this bid will not be acceptable. This guarantee will cover the replacement of all parts and labor to replace same made necessary by normal usage and wear. The following conditions will apply:
 - B. An Owner's Representative initiating an emergency service call via fax notification will initiate emergency service. A service call will be considered an emergency if either a single door of the Door Access System, zone of the Intrusion Detection System, loss of a single camera or sequence event in SRO Office Room 1134. In either case, the system shall be back in service within four hours of notification.

C. Normal service calls will be initiated by an Owner's Representative and shall be handled by the service agency within eight working hours. Working hours are defined as falling between 8 a.m. and Noon and between 1 p.m. and 5 p.m. on any non-holiday, Monday through Friday. Normal Service calls apply to any problems which affect the system to a lesser extent that defined for emergency service. Service Request forms will be supplied by the Contractor and the faxing or mailing of such a request form shall constitute notification by the Owner of a service request.

End of section

BID FORM

BID OF: _____ (Contractor)

BID TO: COLLETON COUNTY SCHOOL DISTRICT

(Owner)

PROJECT NAME: ACCESS CONTROL SYSTEM AND VIDEO SURVEILLANCE INTEGRATED SYSTEM.

PROJECT NUMBER: 11-BG1110 BID DATE: December 07, 2010

BASE BID AGREEMENT

The undersigned, having examined all the Bidding Documents and acknowledging all Addendum(a) as follows:

Addendum(a)#

shall execute the entire Work in the Bidding Documents as described, for a LUMP SUM amount of:

_____ Dollars

(\$ _____) which sum is hereafter called the BASE BID.

DATE FOR COMMENCEMENT AND SUBSTANTIAL COMPLETION

The Date for Commencement shall be established in the Notice to Proceed. The Contractor shall not incur any expense until the contract has been awarded. An award requires that either the Contract be signed by both the awarding authority and the contractor or a Notice to Proceed is executed.

All work shall be substantially completed (as evidenced by the date on the CERTIFICATE OF SUBSTANTIAL COMPLETION) within FORTY-FIVE (45) calendar days from the date set forth in the NOTICE TO PROCEED, subject to adjustments as provided in the Contract Documents.

The undersigned further agrees that from the compensation to be paid, the owner may retain as Step One liquidated damages the sum of Three Hundred Dollars (\$300) for each calendar day the actual contract time for Substantial Completion exceeds the specified or adjusted contract time for Substantial Completion as provided in the Contract Documents.

BID SECURITY

The undersigned enclosed bid security in the amount of not less than five (5) percent of the BASE BID. The Contractor shall have Fourteen Days (14) days maximum from the date of the Notice of Intent to Award to deliver Performance and Payment Bond, Certificate of Insurance, and the Contract (signed by Contractor only). Failure to deliver these documents, as required, shall entitle the agency to consider the Contractor non-responsible and declare the bid security forfeited.

ALTERNATE(S) TO THE BASE BID: NONE

ADDENDA

The undersigned acknowledges the receipt of the addenda (as noted on page one of this Bid Form) and confirms that the BID as submitted reflects appropriate price responses.

UNIT PRICES: NONE

LISTING OF SUBCONTRACTORS

Section 3020(b) (i) (ii) (iii) of Colleton County School District's Procurement Code provides: The District, in consultation with the architect-engineer assigned to the project, shall identify by specialty in the invitation for bids all subcontractors who are expected to perform work for the prime

contractor to or about the construction when those subcontractors' contracts are each expected to exceed three percent of the prime contractor's total base bid. Please list the following sub-contractors as follows:

FOR BASE BID

<u>Name of Trade</u>	<u>Subcontractor's Name</u>	<u>Location</u>
_____	_____	_____
_____	_____	_____

Failure to list subcontractors in accordance with the code shall render the prime contractor's bid unresponsive.

No prime contractor whose bid is accepted shall substitute any person as subcontractor in place of the subcontractor listed in the original bid, except with the consent of the awarding authority.

BID HOLDING TIME AND ACCEPTANCE

The undersigned agrees that this Base Bid may not be revoked or withdrawn after the time set for the opening of bids, but shall remain open for acceptance for a period of sixty (60) days following the bid date.

CERTIFICATION REGARDING DRUG-FREE WORKPLACE

The undersigned certifies that the contractor listed below will provide a "drug-free workplace" as that term is defined in Section 44-107-30 of the Code of Laws of South Carolina, 1976, as amended, by complying with the requirements set forth in Title 44, Chapter 107.

PROGRESS PAYMENTS

Contractor's Application for Payment shall be submitted to the Architect on AIA Document G702 and G703 - 1983 Edition. The period covered by each application for Payment shall be not less than one calendar month. The Owner shall make progress payments to the Contractor on undisputed amounts certified by the Architect within thirty (30) days from receipt of the Application for Payment by the Owner in accordance with Title 29 Chapter 6 of the Code of Laws of South Carolina, 1976, as amended.

CONTRACTOR'S CLASSIFICATIONS AND SUBCLASSIFICATIONS WITH LIMITATIONS

(Classification)	(Subclassification)	(Limitations)
_____	_____	_____
_____	_____	_____

(SC Contractor's License Number)

AUTHORIZATION

(Type or Print Name of Contractor)

(Type or Print Address)

(Type or Print Phone Number)

(Type or Print Fax Number)

(Type or Print Name)

(Title)

(Signature)

(Date)