

**THE BOARD OF SUPERVISORS OF THE COUNTY OF STANISLAUS  
BOARD ACTION SUMMARY**

DEPT: General Services Agency

BOARD AGENDA: 4.B.5  
AGENDA DATE: February 13, 2018

**SUBJECT:**

Approval of an Agreement with VAS Security Systems, Inc. for Security Camera Upgrade at Stanislaus County Employee Retirement System Administration and District Attorney Offices, Located at 832 12th Street, and the 12th Street Garage, Located at 820 12th Street, Modesto

**BOARD ACTION AS FOLLOWS:**

**RESOLUTION NO. 2018-0083**

On motion of Supervisor Monteith , Seconded by Supervisor Olsen  
and approved by the following vote,

Ayes: Supervisors: Olsen, Chiesa, Withrow, Monteith, and Chairman DeMartini

Noes: Supervisors: None

Excused or Absent: Supervisors: None

Abstaining: Supervisor: None

1)  Approved as recommended

2)  Denied

3)  Approved as amended

4)  Other:

**MOTION:**

ATTEST:

  
ELIZABETH A. KING, Clerk of the Board of Supervisors

File No.

**THE BOARD OF SUPERVISORS OF THE COUNTY OF STANISLAUS  
AGENDA ITEM**

DEPT: General Services Agency

BOARD AGENDA:4.B.5  
AGENDA DATE: February 13, 2018

CONSENT:

CEO CONCURRENCE: YES

4/5 Vote Required: No

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**SUBJECT:**

Approval of an Agreement with VAS Security Systems, Inc. for Security Camera Upgrade at Stanislaus County Employee Retirement System Administration and District Attorney Offices, Located at 832 12th Street, and the 12th Street Garage, Located at 820 12th Street, Modesto

**STAFF RECOMMENDATION:**

1. Approve an agreement with VAS Security Systems, Inc. in the amount of \$143,655 for security camera upgrade at Stanislaus County Employee Retirement System Administration (StanCERA) and District Attorney (DA) offices located at 832 12<sup>th</sup> Street, and the 12<sup>th</sup> Street Garage located at 820 12<sup>th</sup> Street, Modesto.
2. Authorize the Purchasing Agent to sign the Agreement and any subsequent amendments to the Agreement on behalf of the County, not to exceed 5%.

**DISCUSSION:**

The Stanislaus County Employees Retirement Association (StanCERA) and Stanislaus County District Attorney (DA) offices, located at 832 12<sup>th</sup> Street, Modesto are currently using a security camera system that was installed over ten years ago. Since that time, certain components have become unserviceable or unavailable. Additionally, electronic camera system technology has progressed significantly over recent years, rendering the current system obsolete. The 12<sup>th</sup> Street Garage, which is adjacent to the Office Building, has security monitoring equipment which is out of date.

To enhance the safety and security of the staff and customers of both StanCERA and the District Attorney, and customers of the 12<sup>th</sup> Street Garage, Stanislaus County General Services Agency (GSA) developed specifications for a replacement state-of-the-art security surveillance system, consisting of 58 new cameras and 21 panic buttons within the offices, and a monitoring console system to manage both the new office cameras and 37 existing cameras in the building's adjacent parking garage. Replacement of any currently-inoperable garage cameras was included in the new specifications.

GSA posted Request for Bids (Bid) No. 17-55-BD for Security Camera Upgrades at StanCERA on September 1, 2017, which set forth the scope of work. The Bid notice was sent to 1,199 companies, and 125 firms downloaded the Bid documents. Seventeen contractors attended the mandatory pre-bid meeting held on-site on September 12, 2017.

The Bid closed on November 6, 2017 and GSA received responses from three contractors:

Company Name	Total Bid (Base Price)
VAS Security Systems, Inc.; Pleasanton, CA	\$143,655.00
iTech Solution; San Jose, CA	\$144,900.00
Kratos Public Safety & Security Solutions; Pleasanton, CA	\$173,935.61

VAS Security Systems, Inc. was the lowest-priced responsive and responsible bidder. On November 17, 2017, GSA issued a Notice of Intent to Award to VAS Security Systems, Inc., posted the notice online at PublicPurchase.com, and issued a Notice of Non-Award directly to the other bidders. No letters of protest were received during the five-day protest period of the bid process.

If approved, the agreement will be effective upon the issuance of a Notice-to-Proceed letter (Notice). The Bid documents allow 60 working days for project completion from the date of the Notice.

Normal operating hours for the 12<sup>th</sup> Street Office Building are 8:00 AM - 5:00 PM, Monday through Friday. Neither interference with, nor a shutdown of, County operations at the site is planned during the camera upgrade project.

**POLICY ISSUE:**

The County’s purchasing policy requires Board of Supervisors approval for contracts exceeding \$100,000, based upon California Government Codes § 25212, et seq, and § 25502.5, et seq, which establish the powers of the Board of Supervisors and the Purchasing Agent.

**FISCAL IMPACT:**

The proposed agreement shall cover security camera upgrades at the StanCERA and District Attorney offices for the bid amount of \$143,655, plus a 5% contingency, for a total not to exceed amount of \$150,838. Funding is as follows:

Funding	Portion	Estimated Cost
StanCERA	Labor and equipment associated with the 6 <sup>th</sup> Floor	\$37,709.50
Deferred Maintenance*	Labor and equipment associated with floors 3 through 5 and the 12 <sup>th</sup> Street Garage	\$113,128.50
Total Not To Exceed		\$150,838.00

*Deferred Maintenance funding is included in the Chief Executive Office Plant Acquisition, Fiscal Year 2017-2018 Adopted Final Budget.*

**BOARD OF SUPERVISORS' PRIORITY:**

The recommended actions are consistent with the Boards' priority of *Delivering Efficient Public Services and Infrastructure* by enhancing safety and security of staff and customers.

**STAFFING IMPACT:**

Existing GSA staff will manage the contract for security camera upgrades.

**CONTACT PERSON:**

Keith D. Boggs, GSA Director/Purchasing Agent  
Brad Diemer, Purchasing Manager

Telephone: (209) 525-7640  
Telephone: (209) 525-6319

**ATTACHMENT(S):**

1. VAS Security Systems, Inc Agreement (DR)

**AGREEMENT**  
**(for Public Works of Improvement)**

This Agreement, made this February 13, 2018 by and between VAS Security Systems, Inc. ("Contractor") and the COUNTY OF STANISLAUS ("County").

**ARTICLE I**

The Contractor will provide all the materials, tools, equipment and labor and perform all the work necessary to complete in a good workmanlike manner:

**BID NAME: Security Camera Upgrade at StanCERA**  
**BID NO.: 17-55-BD**

as set forth in the Bid of the Contractor and in accordance with the Bid, Notice to Bidders, Information for Bidders, General Conditions, plans and specifications, bonds, addenda, Exhibit A to this Agreement and any documents particularly required or provided, all of which are attached hereto and made a part hereof. All of the foregoing documents, together with this Agreement, comprise the contract.

**ARTICLE II**

All of the Work included in this contract is to be performed under the direction of the County, and in conformity with the true construction and meaning of the contract, as determined solely by the County.

**ARTICLE III**

No alterations in the Work shall be made except upon a written change order issued by the Stanislaus County Purchasing Agent. The amount to be paid by the County or to be deducted from the contract price by virtue of such alterations shall be detailed and stated in said change order and shall be approved in writing by the County and the Contractor.

Changes, additions, and alterations in the Work, may be ordered in writing by the Purchasing Agent of the County of Stanislaus in the form of a written change order.

**ARTICLE IV**

The Contractor shall commence the Work within **ten (10) working days** after the date specified in the Notice to Proceed given to it by the Purchasing Agent shall prosecute said Work in a prompt, diligent and workmanlike manner. The Contractor shall complete the Work within **60 Working Days** unless extension or suspension of the Work is agreed to in writing by the County. Time is of the essence in this Agreement.

**ARTICLE V**

County shall pay to Contractor in due course and at the usual time for payment of County obligations after the last day of each month, ninety-five percent (95%) of the cost of the Work completed and material properly stored on the job site, which cost shall be determined by the County. A final payment of five percent (5%) of the contract price shall be due the Contractor 35 days after acceptance of the Work, provided that the Contractor furnishes to the County satisfactory evidence that all obligations for labor and materials have been satisfactorily fulfilled within the said 35 day period, and further provided that no payment shall be construed to be an acceptance of defective work or improper materials.

Except as otherwise prohibited by law, Contractor may elect to receive all payments due under the contract without any retention. If Contractor so elects, it shall deposit with County securities with a value equal to the

monies, which would otherwise be withheld by the County. Said securities shall be as provided in Section 22300 of the Public Contract Code and shall be approved by County as to both sufficiency and form.

ARTICLE VI

Prior to commencing the Work, the Contractor shall file a bond issued by a surety company, approved by the County, and in the form acceptable to the County in the amount of one hundred percent (100%) of the contract price for the faithful payment and satisfaction of all lawful claims of all persons for labor and materials furnished in the prosecution of the contract Work. Prior to commencing the Work, the Contractor shall file a bond issued by a surety company, approved by the County, and in the form acceptable to the County in the amount of one hundred percent (100%) of the contract price to guarantee the faithful performance of the contract.

ARTICLE VII

The Contractor shall take out and maintain during the life of the contract the insurance required and listed in the General Conditions, Section 2.14, of the contract documents.

ARTICLE VIII

When the Work is completed and ready for final inspection, the Contractor shall notify the County which shall make such final inspection within five (5) days after notice.

If the County shall approve the Work and find that the Work is complete and ready for acceptance and shall accept the same, the final payment of the contract price shall be due as provided in Article V, hereof.

ARTICLE IX

Contractor shall comply with all the provisions of state and local laws relating to contracts for the prosecution of public works. Pursuant to law, the County has ascertained the general prevailing rate of per diem wages in the locality of the work for each craft or type of workman required for performance of the contract, which rates are as stated in the Invitation to Bidders, and the Contractor shall be required to pay not less than said prevailing rates. Contractor is required to post a copy of these prevailing wage rates at the job site.

ARTICLE X

Whenever any act is directed to be done or notice directed to be given by or to the County hereof, the same may be done or given by or to the Purchasing Agent.

ARTICLE XI

The Contractor shall not assign the contract or sublet it as a whole without the written consent of the County, nor shall the Contractor assign any monies due or to become due to him hereunder without the previous written consent of the County. Contractor shall comply with the Subcontractor Listing Law. This contract shall be binding upon the parties hereto, their heirs, successors, assigns, subcontractors, and legal representatives.

ARTICLE XII

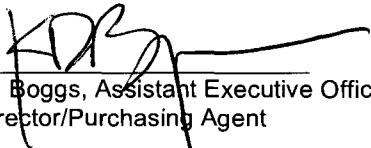
Any alteration or alterations made in this contract, or any part hereof, shall not operate to release any surety from liability of any bond given pursuant to the provisions of this contract and the consent of such surety to such alteration or alterations is hereby given, the surety expressly waiving hereby the provisions of Section 2819 of the Civil Code.

ARTICLE XIII

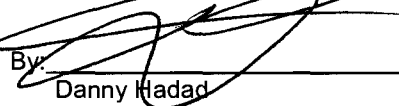
Neither the final certificate nor payment, nor any provision of the related documents, shall relieve the Contractor of responsibility for faulty workmanship or materials, and less otherwise specified, he shall remedy any defects

due thereto and pay for any damage to other work resulting therefrom which shall appear within a period of one (1) year from the date of filing Notice of Completion. The County shall give notice of observed defects with reasonable promptness. All questions arising under this Article shall be decided by the Purchasing Agent.


**COUNTY OF STANISLAUS**

By:   
Keith D. Boggs, Assistant Executive Officer,  
GSA Director/Purchasing Agent  
"County"

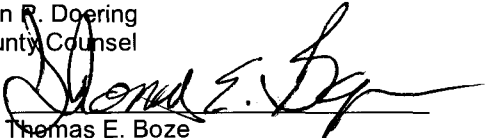
**VAS Security Systems, Inc.**

By:   
Danny Hadad  
Security Consultant  
"Contractor"

APPROVED AS TO CONTENT:  
GSA Department, Facilities Maintenance Division

By:   
Matt Innes  
Facilities Maintenance Manager

APPROVED AS TO FORM:

John R. Doering  
County Counsel  
By:   
Thomas E. Boze  
Assistant County Counsel

## GENERAL CONDITIONS.

**2.01 OWNER.** The term "Owner", where used herein, shall mean the County of Stanislaus, a political subdivision of the State of California.

**2.02 BOARD.** The term "Board", where used herein, shall mean the Stanislaus County General Services Agency of the County of Stanislaus, California.

**2.03 ENGINEER.** The Stanislaus County General Services Agency Facilities Maintenance Manager shall supervise and be responsible for the Work, and whenever the word "Director" or the word "Engineer" is used herein, it shall mean the Facilities Maintenance Manager of the County of Stanislaus, acting either directly or through properly authorized agents, such agents acting within the scope of the particular duties delegated to them.

**2.04 CONTRACTOR.** The term "Contractor", where used herein, shall mean the Contractor to whom the contract for the Work described and specified herein has been awarded to by the Board.

**2.05 SUBCONTRACTOR.** The term "Subcontractor", where used herein, includes only those having a direct contract with the Contractor for the Work or portion of the Work described and specified herein.

**2.06 WORK.** The term "Work", where used herein, includes all labor, materials and any necessary equipment required for complete performance of the contract.

**2.07 CONTRACT DOCUMENTS.** The term "Contract Documents", where used herein, includes the following: The Notice to Bidders, the Instructions to Bidders, the General Conditions, the plans and specifications, the bid, the Agreement, the general bond and insurance certificates. The contract documents are complementary, and what is called for by one shall be as binding as if called for by all.

**2.08 PLANS AND SPECIFICATIONS.** The term "Plans and Specifications", where used herein, shall mean and include all specifications and provisions of any kind, whether general, detailed or otherwise, relating to the labor, equipment, material or work in the installation thereof, and the plans and drawings, if any, accompanying same which are made a part hereof.

**2.09 AGREEMENT.** The Contractor to whom the Work is awarded shall, within ten days after receipt of the contract documents as mailed by the Purchasing Agent or designee, enter into an agreement with the owner. The form of agreement is attached herein and made a part of these General Conditions.

**2.10 MATERIAL, LABOR, EQUIPMENT AND OTHER FACILITIES.** Unless otherwise provided, the Contractor shall provide and pay for all materials, labor, water, tools, equipment, lights, power, transportation and other facilities necessary for the execution and completion of the Work.

**2.11 PERMITS AND LICENSES.** All permits and licenses necessary for the prosecution of the Work shall be secured and paid for by the Contractor, except those secured by Owner and so noted.

**2.12 INSPECTION OF WORK.** A representative of the Owner shall, at all times, have access to the Work and the Contractor shall provide proper facilities for such access and for inspection. The Contractor's attention is directed to Government Code Section 1126 and Stanislaus County Purchasing Agent regulations wherein the Owner's representative is prohibited from accepting from the Contractor, his employees, and subcontractors any gratuity, gift, service or material of any value or use of equipment or facilities, and agrees to abide by the section and regulations.

**2.13 BONDS.** The Contractor shall furnish and deliver to the Board a surety bond in the amount equal to one hundred percent (100%) of the contract price to guarantee the faithful performance of the contract, and a surety bond in an amount equal to one hundred percent (100%) of the contract price for the faithful payment and satisfaction of all lawful claims of all persons for labor and material furnished and the prosecution of the contract.



Such surety bonds shall be issued by a corporation duly and legally licensed to transact surety business in the State of California and approved by the Board. All participating signatures on the bonds shall be notarized.

## **2.14 INSURANCE.**

Coverage Required: Contractor shall obtain, and maintain at all times during the term of this Agreement, insurance coverage in the amounts and coverage specified in the attached "Exhibit B."

## **2.15 DEFENSE AND INDEMNIFICATION.**

**2.15.1** Owner and each of its officers, employees, consultants and agents including, but not limited to, the Board, Project Manager and each Owner's Representative, shall not be liable or accountable in any manner for loss or damage that may happen to any part of the Work; loss or damage to materials or other things used or employed in performing the Work; injury, sickness, disease, or death of any person; or damage to property resulting from any cause whatsoever except their sole negligence, willful misconduct or active negligence, attributable to performance or character of the Work, and Contractor releases all of the foregoing persons and entities from any and all such claims.

**2.15.2** To the furthest extent permitted by law (including without limitation California Civil Code §2782), Contractor shall assume defense of, and indemnify and hold harmless, Owner and each of its officers, employees, consultants and agents, including but not limited to the Board, Project Manager and each Owner's Representative, from claims, suits, actions, losses and liability of every kind, nature and description, including but not limited to claims and fines of regulatory agencies and attorney's fees and consultant's fees, directly or indirectly arising out of, connected with or resulting from performance of the Work, failure to perform the Work, or condition of the Work which is caused in whole or part by any act or omission of Contractor, Subcontractors, anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, resulting from any cause whatsoever except their sole negligence, willful misconduct or active negligence.

**2.15.3** With respect to third-party claims against Contractor, Contractor waives any and all rights to any type of express or implied indemnity against Owner and each of its officers, employees, consultants and agents including, but not limited to Owner, the Board, Project Manager and each Owner's Representative. Owner shall provide timely notice to Contractor of any third-party claim relating to the Contract Documents, in accordance with Section 9201 of the California Public Contract Code.

**2.15.4** Approval or purchase of any insurance contracts or policies shall in no way relieve from liability nor limit the liability of Contractor, its Subcontractors of any tier, or the officers or agents of any of them.

**2.15.5** To the furthest extent permitted by law (including, without limitation, Civil Code §2782), the indemnities, releases of liability and limitations of liability, claims procedures, and limitations of remedy expressed throughout Contract Documents shall apply even in the event of breach of Contract, negligence (active or passive), fault or strict liability of the party(ies) indemnified, released, or limited in liability, and shall survive the termination, rescission, breach, abandonment, or completion of the Work or the terms of the Contract Documents. If Contractor fails to perform any of these defense or indemnity obligations, Owner may in its discretion back charge Contractor for Owner's costs and damages resulting therefrom and withhold such sums from progress payments or other Contract moneys which may become due.

**2.15.6** The indemnities in the Contract Documents shall not apply to any indemnified party to the extent of its sole negligence or willful misconduct; nor shall they apply to Owner or other indemnified party to the extent of its active negligence.

**2.16 ASSIGNMENT OF CONTRACT.** Contractor shall not assign the contract or sublet it as a whole without written consent of the owner, nor shall the Contractor assign any monies due or to become due to him hereunder without the written consent of the Owner.

**2.17 PREVAILING WAGES.** Pursuant to Labor Code section 1771, the work under this Agreement is subject to the provisions of Article 2 (commencing with section 1770) of Chapter 1 of Part 7 of Division 2 of the Labor

Code, and the Contractor shall pay all workers the general prevailing rate of per diem wages applicable to the work to be done for straight time, overtime, Saturday, Sunday and holiday work. These wage rates, which are set forth by the Director of the Department of Industrial Relations, are now on file with the Department of Public Works and are a part of this Agreement. The Contractor shall post a copy of these prevailing wage rates on the job site.

**2.18 REGISTRATION WITH THE DEPARTMENT OF INDUSTRIAL RELATIONS.** No Contractor or subcontractor may be listed on a bid proposal for a public work project (submitted on or after March 1, 2015) unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5 5 [with limited exceptions from this requirement for bid purposes only under Labor Code section 1771.1(a)]. No contractor or subcontractor may be awarded a contract for public work on a public works project (awarded on or after April 1, 2015) unless registered with the Department of Industrial Relations pursuant to Labor Code section 1725.5. This project is subject to compliance monitoring and enforcement by the Department of Industrial Relations.

CONTRACTOR HEREBY ATTESTS THAT CONTRACTOR AND ALL SUBCONTRACTORS ARE REGISTERED WITH THE DEPARTMENT OF INDUSTRIAL RELATIONS ("DIR"). Senate Bill 854 requires that all contractors performing work on any public works project valued at more than \$1,000.00 must be registered with the DIR, and that all said contractors submit certified payroll reports directly to the DIR, unless excused. Failure to comply with this sections constitutes a material breach of this contract.

**2.19 PAYROLL RECORDS.** Pursuant to and in accordance with the provisions Labor Code section 1776, the Contractor shall keep accurate payroll records of employees performing work under this Agreement and shall make available for inspection certified copies such payroll records.

**2.20 EIGHT HOUR DAY.** Pursuant to and in accordance with the provisions of Labor Code sections 1810, 1811 and 1815, the time of service of any laborer, workman, or mechanic employed upon any of the work under this Agreement is limited and restricted to eight (8) hours during any one calendar day, and forty (40) hours during any one calendar week, except that work performed by employees of Contractors in excess of eight (8) hours per day, and forty (40) hours during any one week, shall be permitted upon compensation for all hours worked in excess of eight (8) hours per day at not less than one and one-half (1-1/2) times the basic rate of pay.

**2.21 REQUIRED LISTING OF PROPOSED SUBCONTRACTORS.** Each bid shall have listed therein the name, license number and address of each subcontractor to whom the Bidder proposes to subcontract portions of the Work in the amount of 1/2 of one percent of his total bid or \$10,000, whichever is greater, in accordance with the Subletting and Subcontracting Fair Practices Act, commencing with Section 4100 of the Public Contract Code. A sheet for listing the subcontractors, as required herein, is included in the Bid. The Bidder's attention is invited to other provisions of said Act related to the imposition of penalties for a failure to observe its provisions by using unauthorized subcontractor or by making unauthorized substitutions.

**2.22 STANDARD SPECIFICATIONS AND CODES.** All Work herein specified shall be performed in accordance with applicable sections of the following Standard Specifications or Codes which are herein named and hereby made a portion of these specifications. In a case of conflict between these specifications and said Standards, these specifications shall be paramount.

Stanislaus County Code Title 16, Chap. 16.05

Stanislaus County Code Title 16, Chap. 16.10

Stanislaus County Code Title 16, Chap. 16.15

Stanislaus County Code Title 16, Chap. 16.20

Standard Specifications, State of California, Department of Transportation (2010)

Stanislaus County Improvement Standards

California Building Code (California Code of Regulations, Title 24, Part 2)

**2.23 TAXES.** Any federal, state or city tax payable on articles furnished by the Contractor under the contract shall be included in the contract price paid by the Contractor.

**2.24 TIME FOR COMPLETION.** The Work to be performed under this contract shall be completed as stated within ARTICLE IV of this Agreement.

**2.25 DEFECTS IN WORK.** The Contractor shall be responsible for and must make good any defects through faulty, improper or inferior workmanship or materials arising or discovered in any part of this work within one (1) year after the completion and acceptance of the same.

**2.26 DEVIATION FROM PLANS AND SPECIFICATIONS.** No deviation shall be made from the plans and specifications. If the Contractor shall vary from the plans and specifications in the form of quality or in the Work or the amount or value of the materials herein provided for, the Owner shall have the right to order such improper work or materials removed, remade or replaced. In the event that the Work is ordered changed, any other work disturbed or damaged by such alteration shall be made good at the Contractor's expense.

**2.27 BRANDS.** Wherever the name or brand of a manufacturer or an article is specified herein, it is used as a measure of quality and utility or a standard. If the Contractor desires to use any other brand or manufacturer of equal quality and utility to that specified, he shall make application to the Owner in writing and submit samples, if requested. The Contractor shall have 35 days after the award of the contract for submission of data substantiating any such request for substitution of "equal" items. The Owners will then determine whether or not the name brand or article is equal in quality and utility to that specified, and its decision shall be final.

Except in those instances in which the product is designated to match others presently in use, specifications herein calling for a designated material, product, thing or service by specific brand or trade name shall be deemed to be followed by the words "or equal" so that Contractor may furnish any equal material, product, thing or service. The Contractor shall have thirty-five (35) days after award of the contract for submission of data substantiating a request for a substitution of "an equal" item, pursuant to Section 3400 of the Public Contract Code.

**2.28 NEW MATERIALS.** All materials used in the Work shall be new and the best market quality, unless specified or shown otherwise. All labor used on this contract shall be competent and skilled for the Work. All Work executed under this contract shall be done in the best, most thorough substantial and workmanlike manner. All material and labor shall be subject to the approval of the Engineer as to quality and fitness, and shall be immediately removed if it does not meet with his approval.

**2.29 ABANDONMENT OF WORK.** Should the Contractor abandon the Work called for under the plans and specifications and contract documents, or assign his contract, or if the Contractor unnecessarily and unreasonably delays the Work, or if the Contractor willfully violates any of the conditions of the plans and specifications or contract documents, or performs the Work in bad faith, the Owner shall have the power to notify the Contractor to discontinue all work or any part thereof under this contract, and thereupon the Contractor shall cease to continue said work or such part thereof as the Owner may designate, and the Owner shall thereupon have the power to employ such persons as it may consider desirable, and to obtain by contract, purchase, hire or otherwise, such implements, tools, material or materials as the Owner may deem advisable to work at and be used to complete the Work herein described, or such part thereof as shall have not been completed, and to use such material as it may find upon the site of said Work, and to charge the expense of such labor and material, implements and tools to the Contractor, and the expense so charged shall be deducted and paid by the Owner out of such monies as may be either due, or may at any time thereafter become due to the Contractor hereunder and by virtue of the contract.

In the case such expense is less than the sum which would have been payable under the contract, if the same had been completed by the Contractor, the Contractor shall be entitled to receive the difference, and in case such expense shall exceed the last said amount, then the Contractor or his bondsman shall pay the amount of such excess to the Owner on notice to either from the Owner the excess so due.

**2.30 EXTENSION OF TIME.** If it appears to the Contractor that he will not complete the Work herein specified in the time agreed, he shall make written application to the Owner at least five (5) calendar days prior to the

expiration of the time for completion, stating the reasons why and the amount of extension which he believes he should be granted. The Owner may then, in its discretion, grant or deny such extension.

**2.31 SUSPENSION OF WORK.** Should the Owner, for any cause, authorize a suspension of Work, the time of such suspension will be added to the time allowed for completion. Suspension of Work by order of the Board shall not be deemed a waiver of the claim of the Owner for damages for non-completion of the Work as above required.

**2.32 JUSTIFIABLE DELAYS.** The Contractor shall not be held responsible for delays in the completion of the Work caused by strikes, labor disturbances, lack or failure of transportation, war, inability to obtain materials due to war conditions, perils of the sea, insurrection, riot, acts of any government, whether foreign or domestic, federal or state, and/or any other causes similar to the foregoing which are beyond the control of and are not the fault of the Contractor, or if prevented by conditions directly resulting from the execution of contracts or the placing of orders by the Federal government or its authorized agencies or representatives, which are required by law to be given priority, but provided that whenever the Contractor shall claim that delays are due to any or all of the above named cause or causes of delay, request an extension of time in accordance with paragraph 2.27 of these General Conditions, and if the Board finds that such cause or causes of delay exist, it shall grant him an extension of time equal to the delay resulting from such cause or causes, or the Board may at its option, rescind said contract and pay said Contractor for the reasonable value of the Work completed and let a new contract for the completion of the remainder of the Work herein specified.

**2.33 PATENTS AND ROYALTIES.** If any material, composition, process or any other thing called for or required by the plans and specifications heretofore adopted by the Owner is covered by letter patent, all royalties and expenses thereof, all litigation therefrom, or other things whatsoever which may develop as a cost from the use of such material, composition, process or any other thing which is covered by letter patents shall be borne by the Contractor. The Contractor shall pay all license and/or royalty fees. He shall defend all suits or claims for infringement of any patent rights and shall save the Owner harmless from loss on account thereof.

**2.34 EXAMINATION OF SITE.** The Contractor shall be held to have examined the site, compared it with the drawings and specifications, and to have satisfied himself as to the conditions under which the Work is to be performed. No allowance or claims on his behalf will be made for any expense to which he may be put as a result or failure on his part to thoroughly acquaint himself with conditions at the site.

**2.35 DAMAGE TO OTHERS.** The Contractor shall exercise due caution during his operations so as not to damage the property of others or Owner's property not directly involved under the plans and specifications, and shall be responsible for the protection of this property and shall replace any and all such property to its former condition as a result of his failure to provide protection or exercise due caution during his operations.

**2.36 SURVEYS AND GRADES.** The Engineer shall establish permanent type reference monuments or posts for the alignment and elevations of all Work. For structures he will provide said monuments for reference data only. For general engineering contracts he shall provide the usual stakes sufficient for construction. The Contractor shall be charged with the responsibility of adequately protecting said stakes and monuments. The Contractor shall be requested to set supplemental posts for detailed construction needs.

**2.37 CORRECTION OF WORK AFTER FINAL PAYMENT.** Neither the final certificate nor final payment, nor any provision of the contract documents shall relieve the Contractor of responsibility for faulty materials or workmanship, and unless otherwise specified, he shall remedy any defects due thereto and shall pay for any damage or other work resulting therefrom which shall appear within a period of one year from the date of substantial completion. The Owner shall give notice of observed defects with reasonable promptness. All questions arising under this article shall be decided by the Board.

**2.38 CHANGES IN WORK.** The Owner, without invalidating the contract, may order extra work or make changes by altering, adding to or deducting from the Work, the contract sum being adjusted accordingly. All such work shall be performed under the conditions of the contract except that any claim for extension of time caused thereby shall be adjusted at the time of ordering the change. The Engineer shall have authority to make minor changes not involving extra cost and not inconsistent with the purpose of the Project.

The value of such extra Work or change shall be determined in one or more of the following ways:

- (a) By estimate and acceptance in a lump sum;
- (b) By unit prices named in the contract or subsequently agreed upon;
- (c) By cost and percentage and fixed fee.

Should conditions below surface of the ground be at variance with the conditions indicated by the drawings and specifications, the contract sum shall be equitably adjusted upon claim by either party made within a reasonable time after first observation of conditions.

The amount agreed upon as the value of any extra Work resulting from any change order shall constitute full and complete compensation for all overhead, labor, material, tools, and equipment furnished in the performance of Work required by that change order. Furthermore, the amount agreed upon as the value of extra Work for any change order shall be accepted by the Contractor as full and complete compensation for any and all claims of any nature whatsoever, including, but not limited to, any actual or alleged claims for compensation by Contractor, or any subcontractor of Contractor for delays occasioned by or in any way arising out of stoppage of the Work, coordination of the Work with others, or processing of that change order.

**2.39 CLEANING UP.** Contractor shall at all times keep the premises free from accumulations of waste material or rubbish as a result of this operation. Upon completion of Work he shall remove all rubbish, material and his equipment from the job and shall leave the job site in a "broom clean" or equivalent condition. In case of a dispute regarding this item, the Owner may remove rubbish or material and charge the cost to the several contractors as the authorized representative shall deem just.

**2.40 SUPERVISION.** The Contractor shall, at all times during the working hours of the contract, have a competent foreman or superintendent on the job who shall be authorized to act as an agent of the Contractor. Such agent shall be familiar with the type of work hereunder and be aware of the hazards and the safety rules relating to this particular type of construction. Ignorance or incompetence of a foreman shall be due cause for his removal from the job and cessation of work under this contract until the intent of this paragraph is fulfilled, without recourse by the Contractor for any extension of the time of completion as a result of the removal of such unsatisfactory agent.

**2.41 APPRENTICESHIP STANDARDS.** This contract is subject to the provisions in Sections 1777.5 (Chapter 1411, Statutes of 1968) and 1777.6 of the Labor Code concerning the employment of apprentices by the Contractor or any subcontractor under the Contractor. Section 1777.5, as amended, requires the Contractor or subcontractor employing tradesmen in any apprenticeable occupation to apply to the Joint Apprenticeship Committee nearest the site of the public works project and which administers the apprenticeship program in that trade for a certificate of approval. The certificate will also fix the ratio of apprentices to journeymen that will be used in the performance of the contract. The ratio of apprentices to journeymen in such cases shall not be less than one to five, except:

- (a) When unemployment in the area of coverage by the Joint Apprenticeship Committee has exceeded an average of fifteen percent (15%) in the three (3) months prior to the request for certificate; or
- (b) When the number of apprentices in training in the area exceeds a ratio of one to five; or
- (c) When the trade can show that it is replacing at least 1/30 of its journeymen through apprenticeship training on an annual basis statewide or locally; or
- (d) Assignment of an apprentice to any work performed under a public works contract would create a condition that would jeopardize his or her life or the life, safety, or property of fellow employees

or the public at large, or the specific task to which the apprentice is to be assigned is of a nature that training cannot be provided by a journeyman.

The Contractor is required to make contributions to funds established for the administration of apprenticeship programs if he employees registered apprentices or journeymen in any apprenticeable trade on such contracts and if other contractors on the public works site are making such contributions.

The Contractor and any subcontractor under him shall comply with the requirements of Sections 1777.5 and 1777.6 in the employment of apprentices.

Information relative to apprenticeship standards, wage schedules, and other requirements may be obtained from the Administrator of Apprenticeship, San Francisco, California, or from the Division of Apprenticeship Standards and its branch offices.

**2.42 ASSIGNMENT OF ANTI-TRUST ACTIONS AND UNFAIR BUSINESS PRACTICE CLAIMS.** In entering into a public works contract or a subcontract to supply goods, services, or materials pursuant to a public works contract, the Contractor or subcontractor offers and agrees to assign to the awarding body all rights, title, and interest in and to all causes of action it may have under Section 4 of the Clayton Act (15 U.S.C. Sec. 15) or under the Cartwright Act (Chapter 2 (commencing with section 16700) of Part 2 of Division 7 of the Business and Professions Code), arising from purchases of goods, services, or materials pursuant to the public works contract or the subcontract. This assignment shall be made and become effective at the time the awarding body tenders final payment to the Contractor, without further acknowledgment by the parties.

**2.43 EQUAL EMPLOYMENT OPPORTUNITY.** During the performance of this Agreement, Contractor and its officers, employees, agents, representatives or subcontractors shall not unlawfully discriminate in violation of any Federal, State or local law, rule or regulation against any employee, applicant for employment or person receiving services under this Agreement because of race, religious creed, color, national origin, ancestry, physical or mental disability including perception of disability, medical condition, genetic information, pregnancy related condition, marital status, gender/sex, sexual orientation, gender identity, gender expression, age (over 40), political affiliation or belief, or military and veteran status. The Contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

The Contractor will in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, religious creed, color, national origin, ancestry, physical or mental disability including perception of disability, medical condition, genetic information, pregnancy related condition, marital status, gender/sex, sexual orientation, gender identity, gender expression, age (over 40), political affiliation or belief, or military and veteran status.

The Contractor will send to each labor union or other representative of workers with which it has a collective bargaining agreement or other contract or understanding, a notice advising the workers' representative of the Contractor commitments under this agreement.

The Contractor agrees that it will comply with the provisions of Titles VI and VII of the Civil Rights Act, Revenue Sharing Act Title 31, U.S. Code Section 2716, and California Government Code Section 12990.

The Contractor agrees that it will assist and cooperate with the County of Stanislaus, the State of California and the United States Government in obtaining compliance with the equal opportunity clause, rules, regulations, and relevant orders of the State of California and United States Government issued pursuant to the Acts.

In the event of the Contractor's non-compliance with the discrimination clause, the affirmative action plan of this contract, or with any of the said rules, regulations or orders, this contract may be canceled, terminated, or suspended in whole or in part by the Owner.

**2.44 DISABLED INDIVIDUALS NON-DISCRIMINATION.** This Project is subject to Section 504 of the Rehabilitation Act of 1973 as amended (29 U.S.C. 794) and all requirements imposed by Title II of the Americans with Disabilities Act (42 U.S.C. 12132) and all guidelines and interpretations issued thereto. In this regard, the Owner and all of its contractors and subcontractors will take all reasonable steps to ensure that disabled individuals have the maximum opportunity for the same level of aid, benefit or service as any other individual.

**2.45 FAIR EMPLOYMENT AND HOUSING ACT ADDENDUM.** During the performance of this Agreement, Contractor and its officers, employees, agents, representatives or subcontractors shall not unlawfully discriminate in violation of any Federal, State or local law, rule or regulation against any employee, applicant for employment or person receiving services under this Agreement because of race, religious creed, color, national origin, ancestry, physical or mental disability including perception of disability, medical condition, genetic information, pregnancy related condition, marital status, gender/sex, sexual orientation, gender identity, gender expression, age (over 40), political affiliation or belief, or military and veteran status. Contractor and its officers, employees, agents, representatives or subcontractors shall comply with all applicable Federal, State and local laws and regulations related to non-discrimination and equal opportunity, including without limitation the County's non-discrimination policy; the Fair Employment and Housing Act (Government Code sections 12900 et seq.); California Labor Code sections 1101 and 1102; the Federal Civil Rights Act of 1964 (P.L. 88-352), as amended; and all applicable regulations promulgated in the California Code of Regulations or the Code of Federal Regulations. Such action shall include, but not be limited to, the following: employment, upgrading, promotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Contractor shall post in conspicuous places, available to employees and applicants for employment, notices to be provided by the State or local agency setting forth the provisions of this Fair Employment and Housing Section.

The Contractor will permit access to his records of employment, employment advertisements, application forms, and other pertinent data and records by the State Fair Employment and Housing Commission, or any other agency of the State of California designated by the awarding authority, for the purposes of investigation to ascertain compliance with the Fair Employment and Housing section of this contract.

Remedies for willful violation include:

(a) The State or local agency may determine a willful violation of the Fair Employment and Housing provision to have occurred upon receipt of a final judgement having that effect from a court in an action to which Contractor was a party; or upon receipt of a written notice from the Fair Employment and Housing Commission that it has investigated and determined that the Contractor has violated the Fair Employment and Housing Act and has issued an order or obtained an injunction under Government Code Section 12900, et seq.

(b) For willful violation of this Fair Employment and Housing provision the State or local agency shall have the right to terminate this contract either in whole or in part, and any loss or damage sustained by the State or local agency in securing the goods or services hereunder shall be borne and paid for by the Contractor and by his surety under the performance bond, if any, and the State or local agency may deduct from any monies due or that thereafter may become due to the Contractor, the difference between the price named in the contract and the actual cost thereof to the State or local agency.

**2.46 DIGGING TRENCHES OR EXCAVATIONS.**

2.46.1 Trenching shall be done in accordance with the California Labor Code Section 6705, 6706, and 6707.

2.46.2 Pursuant to Public Contract Code section 7104, the Contractor is hereby notified as follows:

Any public works contract of a local public entity which involves digging trenches or other excavations that extend deeper than four feet below the surface and shall contain a clause which provides the following:

(a) That the Contractor shall promptly, and before the following conditions are disturbed, notify the public entity, in writing, of any:

- (1) Material that the Contractor believes may be material that is hazardous waste, as defined in Section 25117 of the Health and Safety Code, that is required to be removed to a Class I, Class II, or Class III disposal site in accordance with provisions of existing law.
- (2) Subsurface or latent physical conditions at the site differing from those indicated.
- (3) Unknown physical conditions at the site of any unusual nature, different materially from those ordinarily encountered and generally recognized as inherent in work of the character provided for in the contract.

(b) That the public entity shall promptly investigate the conditions, and if it finds that the conditions do materially so differ, or do involve hazardous waste, and cause a decrease or increase in the contractor's cost of, or the time required for, performance of any part of the Work shall issue a change order under the procedures described in the contract.

(c) That, in the event that a dispute arises between the public entity and the contractor whether the conditions materially differ, or involve hazardous waste, or cause a decrease or increase in the contractor's cost of, or time required for, performance of any part of the Work, the contractor shall not be excused from any scheduled completion date provided for by the contract, but shall proceed with all work to be performed under the contract. The Contractor shall retain any and all rights provided either by contract or by law which pertain to the resolution of disputes and protests between the contracting parties.

2.46.3 Digging trenches or excavations shall be in accordance with the California Government Code Section 4216, the California Business and Professions Code Section 7110 and the CalOSHA Regulation Title 8 Chapter 4 Subchapter 4 Article 6 Section 1541.

**2.47 UTILITY RELOCATION.** Pursuant to Government Code section 4215, the Contractor shall be compensated for the costs of locating, repairing damage not due to the failure of the Contractor to exercise reasonable care, and removing or relocating such utility facilities not indicated in the plans and specifications with reasonable accuracy, and for equipment on the project necessarily idled during such work. The Contractor shall not be assessed liquidated damages for delay in completion of the project, when such delay is caused by the failure of the County of the utility owner to provide for removal or relocation of such utility facilities.

## **2.48 NOTICE**

Any notice, communication, amendment, addition or deletion to this Agreement, including change of address of either party during the term of this Agreement, which Contractor or County shall be required or may desire to make shall be in writing and may be personally served or, alternatively, sent by prepaid first class mail to the respective parties as follows:

To County: County of Stanislaus  
Purchasing Agent  
1010 10<sup>th</sup> Street, Suite 5400  
Modesto, CA 95354

To Contractor: VAS Security Systems, Inc.  
1257 Quarry Lane, Suite 125  
Pleasanton, CA 94566



## **2.49 FINAL PAYMENT.**

### **A. FINAL PAYMENT**

1. As soon as practicable after all required Work is completed in accordance with Contract Documents, including punch list, testing, record documents and Contractor maintenance after Final Acceptance, Contractor shall submit its Application for Final Payment.
2. Provided Contractor has met all conditions required for Final payment, Owner will pay to Contractor, in manner provided by law, unpaid balance of Contract Sum of Work (including, without limitation, retentions), or whole Contract Sum of Work if no progress payment has been made, determined in accordance with terms of Contract Documents, less sums as may be lawfully retained under any provisions of Contract Documents or by law.

### **B. FINAL ACCOUNTING**

1. Prior progress payments and change orders shall be subject to audit and correction in the final payment.
2. Contractor and each assignee under an assignment in effect at time of final payment shall execute and deliver at time of final payment, and as a condition precedent to final payment, an Agreement and Release of Claims.

## **2.50 CLAIMS UNDER \$375,000.**

The provision of Article 1.5 (commencing with section 20104) of Chapter 1 of Part 3 of the Public Contract Code, relating to the resolution of construction Claims of three hundred seventy-five thousand dollars (\$375,000) or less which arise between a contractor and a local agency are hereby incorporated in this Contract and set forth below.

20104. (a) (1) This article applies to all public works claims of three hundred seventy-five thousand dollars (\$375,000) or less which arise between a contractor and a local agency.

(2) This article shall not apply to any claims resulting from a contract between a contractor and a public agency when the public agency has elected to resolve any disputes pursuant to Article 7.1 (commencing with Section 10240) of Chapter 1 of Part 2.

(b) (1) "Public work" has the same meaning as in Sections 3100 and 3106 of the Civil Code, except that "public work" does not include any work or improvement contracted for by the state or the Regents of the University of California.

(2) "Claim" means a separate demand by the contractor for (A) a time extension, (B) payment of money or damages arising from work done by, or on behalf of, the contractor pursuant to the contract for a public work and payment of which is not otherwise expressly provided for or the claimant is not otherwise entitled to, or (C) an amount the payment of which is disputed by the local agency.

(c) The provisions of this article or a summary thereof shall be set forth in the plans or specifications for any work which may give rise to a claim under this article.

(d) This article applies only to contracts entered into on or after January 1, 1991.

20104.2. For any claim subject to this article, the following requirements apply:

(a) The claim shall be in writing and include the documents necessary to substantiate the claim. Claims must be filed on or before the date of final payment. Nothing in this subdivision is intended to extend the time limit or supersede notice requirements otherwise provided by contract for the filing of claims.

(b) (1) For claims of less than fifty thousand dollars (\$50,000), the local agency shall respond in writing to any written claim within 45 days of receipt of the claim, or may request, in

writing, within 30 days of receipt of the claim, any additional documentation supporting the claim or relating to defenses to the claim the local agency may have against the claimant.

(2) If additional information is thereafter required, it shall be requested and provided pursuant to this subdivision, upon mutual agreement of the local agency and the claimant.

(3) The local agency's written response to the claim, as further documented, shall be submitted to the claimant within 15 days after receipt of the further documentation or within a period of time no greater than that taken by the claimant in producing the additional information, whichever is greater.

(c) (1) For claims of over fifty thousand dollars (\$50,000) and less than or equal to three hundred seventy-five thousand dollars (\$375,000), the local agency shall respond in writing to all written claims within 60 days of receipt of the claim, or may request, in writing, within 30 days of receipt of the claim, any additional documentation supporting the claim or relating to defenses to the claim the local agency may have against the claimant.

(2) If additional information is thereafter required, it shall be requested and provided pursuant to this subdivision, upon mutual agreement of the local agency and the claimant.

(3) The local agency's written response to the claim, as further documented, shall be submitted to the claimant within 30 days after receipt of the further documentation, or within a period of time no greater than that taken by the claimant in producing the additional information or requested documentation, whichever is greater.

(d) If the claimant disputes the local agency's written response, or the local agency fails to respond within the time prescribed, the claimant may so notify the local agency, in writing, either within 15 days of receipt of the local agency's response or within 15 days of the local agency's failure to respond within the time prescribed, respectively, and demand an informal conference to meet and confer for settlement of the issues in dispute. Upon a demand, the local agency shall schedule a meet and confer conference within 30 days for settlement of the dispute.

(e) Following the meet and confer conference, if the claim or any portion remains in dispute, the claimant may file a claim as provided in Chapter 1 (commencing with Section 900) and Chapter 2 (commencing with Section 910) of Part 3 of Division 3.6 of Title 1 of the Government Code. For purposes of those provisions, the running of the period of time within which a claim must be filed shall be tolled from the time the claimant submits his or her written claim pursuant to subdivision (a) until the time that claim is denied as a result of the meet and confer process, including any period of time utilized by the meet and confer process.

(f) This article does not apply to tort claims and nothing in this article is intended nor shall be construed to change the time periods for filing tort claims or actions specified by Chapter 1 (commencing with Section 900) and Chapter 2 (commencing with Section 910) of Part 3 of Division 3.6 of Title 1 of the Government Code.

20104.4. The following procedures are established for all civil actions filed to resolve claims subject to this article:

(a) Within 60 days, but no earlier than 30 days, following the filing or responsive pleadings, the court shall submit the matter to nonbinding mediation unless waived by mutual stipulation of both parties. The mediation process shall provide for the selection within 15 days by both parties of a disinterested third person as mediator, shall be commenced within 30 days of the submittal, and shall be concluded within 15 days from the commencement of the mediation unless a time requirement is extended upon a good cause showing to the court or by stipulation of both parties. If the parties fail to select a mediator within the 15-day period, any party may petition the court to appoint the mediator.

(b) (1) If the matter remains in dispute, the case shall be submitted to judicial arbitration pursuant to Chapter 2.5 (commencing with Section 1141.10) of Title 3 of Part 3 of the Code of Civil Procedure, notwithstanding Section 1141.11 of that code. The Civil Discovery Act (Title 4 (commencing with Section 2016.010) of Part 4 of the Code of Civil Procedure) shall apply to any proceeding brought under this subdivision consistent with the rules pertaining to judicial arbitration.

(2) Notwithstanding any other provision of law, upon stipulation of the parties, arbitrators appointed for purposes of this article shall be experienced in construction law, and, upon stipulation of the parties, mediators and arbitrators shall be paid necessary and reasonable hourly

rates of pay not to exceed their customary rate, and such fees and expenses shall be paid equally by the parties, except in the case of arbitration where the arbitrator, for good cause, determines a different division. In no event shall these fees or expenses be paid by state or county funds.

(3) In addition to Chapter 2.5 (commencing with Section 1141.10) of Title 3 of Part 3 of the Code of Civil Procedure, any party who after receiving an arbitration award requests a trial de novo but does not obtain a more favorable judgment shall, in addition to payment of costs and fees under that chapter, pay the attorney's fees of the other party arising out of the trial de novo.

(c) The court may, upon request by any party, order any witnesses to participate in the mediation or arbitration process.

20104.6. (a) No local agency shall fail to pay money as to any portion of a claim which is undisputed except as otherwise provided in the contract.

(b) In any suit filed under Section 20104.4, the local agency shall pay interest at the legal rate on any arbitration award or judgment. The interest shall begin to accrue on the date the suit is filed in a court of law.

## **2.51 ALL CLAIMS.**

Notwithstanding section 2.50, the provisions of Chapter 9 (commencing with section 9204) of the Public Contracts Code shall apply to any Claims under this Contract; and is hereby incorporated into this contract as set forth below.

9204. (a) The Legislature finds and declares that it is in the best interests of the state and its citizens to ensure that all construction business performed on a public works project in the state that is complete and not in dispute is paid in full and in a timely manner.

(b) Notwithstanding any other law, including, but not limited to, Article 7.1 (commencing with Section 10240) of Chapter 1 of Part 2, Chapter 10 (commencing with Section 19100) of Part 2, and Article 1.5 (commencing with Section 20104) of Chapter 1 of Part 3, this section shall apply to any claim by a contractor in connection with a public works project.

(c) For purposes of this section:

(1) "Claim" means a separate demand by a contractor sent by registered mail or certified mail with return receipt requested, for one or more of the following:

(A) A time extension, including, without limitation, for relief from damages or penalties for delay assessed by a public entity under a contract for a public works project.

(B) Payment by the public entity of money or damages arising from work done by, or on behalf of, the contractor pursuant to the contract for a public works project and payment for which is not otherwise expressly provided or to which the claimant is not otherwise entitled.

(C) Payment of an amount that is disputed by the public entity.

(2) "Contractor" means any type of contractor within the meaning of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code who has entered into a direct contract with a public entity for a public works project.

(3) (A) "Public entity" means, without limitation, except as provided in subparagraph (B), a state agency, department, office, division, bureau, board, or commission, the California State University, the University of California, a city, including a charter city, county, including a charter county, city and county, including a charter city and county, district, special district, public authority, political subdivision, public corporation, or nonprofit transit corporation wholly owned by a public agency and formed to carry out the purposes of the public agency.

(B) "Public entity" shall not include the following:

(i) The Department of Water Resources as to any project under the jurisdiction of that department.

(ii) The Department of Transportation as to any project under the jurisdiction of that department.

(iii) The Department of Parks and Recreation as to any project under the jurisdiction of that department.

(iv) The Department of Corrections and Rehabilitation with respect to any project under its jurisdiction pursuant to Chapter 11 (commencing with Section 7000) of Title 7 of Part 3 of the Penal Code.

(v) The Military Department as to any project under the jurisdiction of that department.

(vi) The Department of General Services as to all other projects.

(vii) The High-Speed Rail Authority.

(4) "Public works project" means the erection, construction, alteration, repair, or improvement of any public structure, building, road, or other public improvement of any kind.

(5) "Subcontractor" means any type of contractor within the meaning of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code who either is in direct contract with a contractor or is a lower tier subcontractor.

(d) (1) (A) Upon receipt of a claim pursuant to this section, the public entity to which the claim applies shall conduct a reasonable review of the claim and, within a period not to exceed 45 days, shall provide the claimant a written statement identifying what portion of the claim is disputed and what portion is undisputed. Upon receipt of a claim, a public entity and a contractor may, by mutual agreement, extend the time period provided in this subdivision.

(B) The claimant shall furnish reasonable documentation to support the claim.

(C) If the public entity needs approval from its governing body to provide the claimant a written statement identifying the disputed portion and the undisputed portion of the claim, and the governing body does not meet within the 45 days or within the mutually agreed to extension of time following receipt of a claim sent by registered mail or certified mail, return receipt requested, the public entity shall have up to three days following the next duly publicly noticed meeting of the governing body after the 45-day period, or extension, expires to provide the claimant a written statement identifying the disputed portion and the undisputed portion.

(D) Any payment due on an undisputed portion of the claim shall be processed and made within 60 days after the public entity issues its written statement. If the public entity fails to issue a written statement, paragraph (3) shall apply.

(2) (A) If the claimant disputes the public entity's written response, or if the public entity fails to respond to a claim issued pursuant to this section within the time prescribed, the claimant may demand in writing an informal conference to meet and confer for settlement of the issues in dispute. Upon receipt of a demand in writing sent by registered mail or certified mail, return receipt requested, the public entity shall schedule a meet and confer conference within 30 days for settlement of the dispute.

(B) Within 10 business days following the conclusion of the meet and confer conference, if the claim or any portion of the claim remains in dispute, the public entity shall provide the claimant a written statement identifying the portion of the claim that remains in dispute and the portion that is undisputed. Any payment due on an undisputed portion of the claim shall be processed and made within 60 days after the public entity issues its written statement. Any disputed portion of the claim, as identified by the contractor in writing, shall be submitted to nonbinding mediation, with the public entity and the claimant sharing the associated costs equally. The public entity and claimant shall mutually agree to a mediator within 10 business days after the disputed portion of the claim has been identified in writing. If the parties cannot agree upon a mediator, each party shall select a mediator and those mediators shall select a qualified neutral third party to mediate with regard to the disputed portion of the claim. Each party shall bear the fees and costs charged by its respective mediator in connection with the selection of the neutral mediator. If mediation is unsuccessful, the parts of the claim remaining in dispute shall be subject to applicable procedures outside this section.

(C) For purposes of this section, mediation includes any nonbinding process, including, but not limited to, neutral evaluation or a dispute review board, in which an independent third party or board assists the parties in dispute resolution through negotiation or by issuance of an evaluation. Any mediation utilized shall conform to the timeframes in this section.

(D) Unless otherwise agreed to by the public entity and the contractor in writing, the mediation conducted pursuant to this section shall excuse any further obligation under Section 20104.4 to mediate after litigation has been commenced.

(E) This section does not preclude a public entity from requiring arbitration of disputes under private arbitration or the Public Works Contract Arbitration Program, if mediation under this section does not resolve the parties' dispute.

(3) Failure by the public entity to respond to a claim from a contractor within the time periods described in this subdivision or to otherwise meet the time requirements of this section shall result in the claim being deemed rejected in its entirety. A claim that is denied by reason of the public entity's failure to have responded to a claim, or its failure to otherwise meet the time requirements of this section, shall not

constitute an adverse finding with regard to the merits of the claim or the responsibility or qualifications of the claimant.

(4) Amounts not paid in a timely manner as required by this section shall bear interest at 7 percent per annum.

(5) If a subcontractor or a lower tier subcontractor lacks legal standing to assert a claim against a public entity because privity of contract does not exist, the contractor may present to the public entity a claim on behalf of a subcontractor or lower tier subcontractor. A subcontractor may request in writing, either on his or her own behalf or on behalf of a lower tier subcontractor, that the contractor present a claim for work which was performed by the subcontractor or by a lower tier subcontractor on behalf of the subcontractor. The subcontractor requesting that the claim be presented to the public entity shall furnish reasonable documentation to support the claim. Within 45 days of receipt of this written request, the contractor shall notify the subcontractor in writing as to whether the contractor presented the claim to the public entity and, if the original contractor did not present the claim, provide the subcontractor with a statement of the reasons for not having done so.

(e) The text of this section or a summary of it shall be set forth in the plans or specifications for any public works project that may give rise to a claim under this section.

(f) A waiver of the rights granted by this section is void and contrary to public policy, provided, however, that (1) upon receipt of a claim, the parties may mutually agree to waive, in writing, mediation and proceed directly to the commencement of a civil action or binding arbitration, as applicable; and (2) a public entity may prescribe reasonable change order, claim, and dispute resolution procedures and requirements in addition to the provisions of this section, so long as the contractual provisions do not conflict with or otherwise impair the timeframes and procedures set forth in this section.

(g) This section applies to contracts entered into on or after January 1, 2017.

(h) Nothing in this section shall impose liability upon a public entity that makes loans or grants available through a competitive application process, for the failure of an awardee to meet its contractual obligations.

(i) This section shall remain in effect only until January 1, 2020, and as of that date is repealed, unless a later enacted statute, that is enacted before January 1, 2020, deletes or extends that date.

**2.52 EXAMINATION AND AUDIT.** Any contract exceeding \$10,000.00 is subject to examination and audit of the California State Auditor, at the request of the County for a period of three (3) years after the final payment under the contract (pursuant to Public Contract Code section 8546.7).

**EXHIBIT A**

**TO**

**AGREEMENT FOR PUBLIC WORKS OF IMPROVEMENT**

- Scope of Work from Invitation to Bid No. 17-55-BD: Security Camera Upgrade at StanCERA, including all Addenda and clarifications thereto;
- Contractor's Bid Submittal Response to Invitation to Bid No. 17-55-BD.

**Exhibit #A  
To  
BID NO. 17-55-BD:**

**SECURITY CAMERA UPGRADE AT STANCERA**

**A. OVERVIEW**

The County of Stanislaus (County) is seeking proposals from qualified and experienced contractors to replace the existing outdated video surveillance and management system at the Stanislaus County Employees Retirement Association (StanCERA) offices located at 832 12<sup>th</sup> Street, Modesto CA 95354.

**B. SCOPE OF SERVICES**

**PART 1 –GENERAL**

- 1.1 Contractor shall replace all cameras in the office building shall be replaced with a new state-of-the-art system. The existing 37 cameras in the parking garage shall remain and shall be accessible through the surveillance console at the front desk in the office building lobby.
- 1.2 Contractor shall replace the existing 28 cameras in the office building and supplement these with an additional 30 cameras, for a total of 58.
- 1.3 The desired camera locations are identified in the attached set of drawings titled “17-55-BD - Exhibit A.2 - SOW - 2017 Camera Locations”.
- 1.4 Contractor shall install a total of 21 panic buttons in the office building.
- 1.5 Contractor may reuse existing cable runs, but does so at the contractor’s own risk.
- 1.6 The existing surveillance system will remain online until such time as there can be a full switch-over to the new system.
- 1.7 Contractor shall configure the Bosch Video Management System in such a way that a gateway will be allowed with the Modesto Police Department to access cameras if the building is in duress.
- 1.8 Contractor shall also configure the system to allow the Stanislaus County District Attorney’s Office to monitor building cameras on a dedicated monitor in their office space.
- 1.9 The Video Management Software must also be able to push out updates to smartphones for both the Modesto Police Department and the Stanislaus County District Attorney’s Office.

## **PART 2 – PROJECT SCOPE**

### **28 23 00 – SECURITY SURVEILLANCE**

#### **2.01 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions.

#### **2.02 SUMMARY**

- A. Section Includes:
  - 1. Cameras, Lenses and Enclosures
  - 2. Programming Server
  - 3. Programmable Keyboard Controller
  - 4. Network Video Recording System
  - 5. Camera Power Supply

#### **2.03 REFERENCES**

- A. ANSI/EIA-170, Electrical Performance Standards - Monochrome Television Studio Facilities
  - 1. (“RS-170”): Standards for picture quality.
  - 2. ANSI/EIA-330, Electrical Performance Standards for Closed Circuit Television Camera 525/60 Interlaced 2:1 (“RS-330”): Standards for Picture quality.

#### **2.04 SYSTEM DESCRIPTION**

- A. Scope of Work Summary:
  - 1. The facility will be provided with high resolution, low light level, color CCTV system to monitor, display, and record critical areas of the building as indicated. A new NVR system will be provided. Monitors will be provided at the Staff Station to display all cameras via split screen and automatic sequencing. Specific camera call up and alarm event monitoring of cameras will be performed through a new Operator Interface Console (OIC).
  - 2. All new cameras will be mounted in security enclosures and placed for viewing movement doors and critical areas. Both fixed and pan/tilt/zoom cameras will be used, and each camera will be pre-programmed with video tour and preset positions.
  - 3. The NVR system will record cameras on demand, per operator control.
- B. System Components:
  - 1. The system shall consist of, but not limited to, color cameras, camera enclosures, housing mounts, network switch, video encoders, power supplies, and all necessary interfacing components for a fully functional system.
- C. Sequence of Operation:
  - 1. Indoor Fixed Cameras: Provide low light, high resolution, color cameras with vari-focal, auto-iris lenses for general video surveillance coverage and continuous digital video



recording. Cameras will have wide angle view to provide the intended coverage. The cameras and lenses will be installed in security smoked dome housings so that the direction of camera is concealed. Mounting types shall include ceiling, corner and wall as specified on the drawings.

2. Pan/Tilt/Zoom (PTZ) Cameras: Provide low light, high resolution, color cameras with pan, tilt, and zoom capabilities for general video surveillance coverage and continuous digital video recording. The cameras and lenses will be installed in security dome housings. Provide all necessary sun-shields, heaters, blowers and weatherproof accessories for a complete installation.
3. Alarm/Event Control: Perform camera call up by integrating with other security electronic systems described in the Specifications.

#### D. Monitoring and Display System

1. Color cameras mounted in security enclosures will be placed for viewing movement doors without line of sight from the control point and will be automatically displayed when the related door is selected.
2. Color cameras mounted in security enclosures will be placed for general surveillance in critical areas. Both fixed and pan/tilt/zoom cameras will be used.
3. Cameras will be displayed on control room monitors ergonomically placed for maximum view capability and operator attention.
4. Camera display functions will be programmable controlled by the programmable keyboard controller in conjunction with the CCTV switch.
5. Cameras will have the ability to be recorded via the programmable keyboard controller or via the NVR programming station.
6. For each camera, video tour and preset positions will be pre-programmed as required. Coordinate with the facility to obtain requirements.

#### E. Network Video Recording System

1. Provide a new digital video management recording system with a minimum of thirteen (13) month storage as required by the County. Recording of all cameras for a minimum of 15 frames per second and 1080P will be based on activation by the staff operator at the Touchscreen. Provide a pre-recording of minimum 2 minutes. Estimate for 6hrs/day recording of each camera. Provide a DVD-RW drive with the network video recorder for extracting video from storage archive and transferring onto a removable media. Provide 50% spare camera input capacity (not storage capacity).
2. Provide RAID 6 configuration for the disc array storage with one (1) hot spare for every six (6) drives.
  - a. Provide a KVM switch to allow quick switching of monitor and keyboard control between the Monitoring and Display System and the Network Video Recording System.
3. Provide racks to mount all hardware. All RAID DVR's will be located on the third floor in the District Attorneys secured server room.

**2.05 SUBMITTALS**

- A. Performance Measurements: Record and submit all performance measurements in a complete test report.
- B. Provide cut sheets and product data for each component. (Total number of 5 copies as well as one electronically)

**2.06 COORDINATION**

- A. Coordinate with the Owner exact mounting location of all cameras prior to installation.
- B. Demonstrate to the Owner camera field of views using variable focal lens at each camera location prior to installation. Select and obtain approval of proper lens size or focal setting at each camera location to provide the required video coverage. If the desired view or coverage is unobtainable due to physical obstructions or limitation of lens, perform minor adjustment of the camera physical location at no additional cost to the Owner.

**2.07 QUALITY ASSURANCE**

- A. CEC Compliance: Comply with applicable requirements.

**2.08 MANUFACTURERS**

- A. Subject to compliance with requirements, provide video surveillance system equipment and components including, but not limited to, those listed in the following table.
- B. Acceptable Products/ Substitutions may be considered as long as they meet the basis for design.

Part Number	Description	QTY	Price Each	Total
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NIN-50022-A3	IP DOME 1080P HD INDOOR, AVF 3-10MM F1.3 LENS, DC IRIS, IDNR, D/N, MOTION/TAMPER/AUDIO DETECTION	28+30		
VG5-7130-EPC4	AUTODOME IP STARLIGHT 7000 HD 720P 30X DAY/NIGHT INDOOR/OUTDOOR PENDANT 50/60HZ, CLEAR ACRYLIC BUBBLE, HIGH PoE or 24VAC	1		
VG5-7230-CPT4	AUTODOME IP DYNAMIC 7000 HD 1080P/720P 30X DAY/NIGHT IN-CEILING 50/60HZ, TINTED ACRYLIC BUBBLE, HIGH PoE or 24VAC	1		
VGA-ROOF-MOUNT	AUTODOME ROOF PARAPET MOUNT	1		
VG4-A-PA0@4	AUTODOME PENDANT ARM, 24 VAC (NO TRANSFORMER), WHITE	1		
NPD-6001A	MIDSPAN, SINGLE PORT, 60W, AC IN	2		
VG4-A-9543	AUTODOME PIPE MOUNT, WHITE	1		
KBD-DIGITAL	INTUIKEY DIGITAL KEYBOARD W/ LCD FOR USE WITH DIVAR DVR AND 600 & 700 SERIES RECORDERS	1		
KBD-120PS	POWER SUPPLY FOR INTUIKEY KBDS, 120VAC	1		
S1385	GUI CONTROL CABLE FOR SYSTEM4	1		

VJM-4016-US	HIGH-PERFORMANCE 16 CHANNEL ENCODER, H.264 HIGH PROFILE; DUAL STREAMING@30FPS; AUDIO; MOTION+; ISCSI RECORDING; US POWER CORD WITH IEC LOCK; 2 AUDIO IN, 1 AUDIO OUT; 4 ALARM INPUT, 1 RELAY OUT	1		
UML-223-90	21.5-INCH FULL HD COLOR LED MONITOR, 1920x1080 RESOLUTION, HDMI, DVI, VGA INPUTS, AUDIO, 120/230VAC, 50/60 HZ	1		
DIP-7082-8HD	DIVAR IP 7000 VIDEO MANAGEMENT APPLIANCE, 2U RACKMOUNT (8-BAY), RAID-5 16TB (8x2TB), HOT-SWAPPABLE HDD; INCLUDES BVMS SERVER/CLIENT/VRM/VSG, DUAL DVI/DP MONITOR OUTPUT, INCL 32 CHANNELS (EXPANDABLE TO 128 CHANNELS) 5 WKSTN, 5 FORENSIC SEARCH, 1 KBD I/F, 1 DVR I/F, 1 MVS I/F AND BUILT-IN DYNAMIC TRANSCODER	1		
DIP-6082-8HD	DIVAR IP 6000 SERIES IP VIDEO STORAGE APPLIANCE, 2U (8-BAY) RACKMOUNT CHASSIS, RAID-5, 16TB (8 x 2TB) HOT-SWAPPABLE HDD; INCL.BUILT-IN DYNAMIC TRANSCODER AND 64 CHANNEL VRM LICENSE (EXPANDABLE TO 128)	1		
MBV-XCHAN-DIP	DIVAR IP 8-CHANNEL EXPANSION LICENSE (ADDS 8 IP CHANNELS; 7000 FAMILY ONLY)	2		
MHW-WZ4R4-HEUS	HIGH PERFORMANCE WORKSTATION, 1X INTEL XEON E5-1620 3.5GHZ QUAD CORE CPU, 8GB ECC RAM, 1X500GB SATA HDD, DVD-RW, NVIDIA QUADRO K4200 4GB GRAPHICS WITH 1 DUAL-LINK DVI-I AND 2 DP (DISPLAY PORT) OUTPUT, SUPPORTS DUAL DISPLAY, SERIAL PORT ADAPTER., MS WINDOWS 8.1, HP 3-YEAR NEXT DAY SUPPORT	1		

C. Use BNC connectors, sufficiently sized for each cable type, for all coaxial cable terminations.

1. Unit shall be a multiple 24VAC output power supply with 37 individually protected circuit breakers. (This is a POE injector by part # NPD6001A)
2. Recording of all cameras for a minimum of 15 frames per second and 1080P will be based on activation by the staff operator at the Touchscreen. Provide a pre-recording of minimum 2 minutes. Estimate for 6hrs/day recording of each camera.
3. Connect all analog garage cameras to the BVMS system.
4. Provide for touch screen control

## 2.09 **MONITORING STATION**

- A. The product specified shall be a software program that provides the installation, administration, and operation of video surveillance systems using H.264 video compression technology via local networks. The software scans the network and displays all the available installed video server and decoder devices and network video recorders, including their IP addresses and additional properties, in a window tree display. Video from any of the installed devices may then be displayed by dragging the device symbol into a workspace software monitor window. Video may be displayed in full screen mode or 2x2 and 3x3 multiscreen formats.
- B. Alarm Handling Capability
1. The VMS specified shall handle alarms generated from the alarm interfaces of the Bosch video servers that have been integrated into the network with the video management system. In addition, the VMS is capable of combining the alarms generated from the alarm interfaces of the video servers with AND, NAND, OR, or NOR internal gating functions of the software to create new triggers that cause the VMS software to react according to preprogrammed alarm scenarios. Internal and weekly timers may be programmed to determine exactly when alarms can be active.

2. The VMS shall accept input alarm triggers and then place them into an alarm stack to either be acknowledged or the input alarm may automatically trigger a series of system operations (scenarios).
3. Alarm trigger inputs to the VMS may be caused by any of the following conditions at the remote video servers:
  - a. Contact input
  - b. Motion detection
  - c. Video signal loss
  - d. The VMS specified shall provide, but not be limited to, the following functions:
    1. Search the local network for installed video servers (transmitters with connected cameras and receivers with connected monitors) and any installed network video recorders.
    2. Treat the network as a digital matrix system by allowing cameras to be connected to monitors using a drag and drop function.
    3. Display several simultaneous live picture connections from cameras in the network.
    4. Provide a configuration tool that allows the creation of site maps with camera locations and monitor placement and also allows interactive operation including PTZ control.
    5. Programming of alarm-triggered events.
    6. Programming of automatic video recording to network connected video recorders.
    7. Retrieve and playback the archived video from remote hard drives or Compact Flash memory of compatible devices or from network video recorders.
    8. Provides a bidirectional audio function to allow communication between remote camera sites and main control location. Full and half duplex audio communication modes are selectable.

## **2.10 PROGRAMMING WORKSTATION**

A. The workstation shall meet or exceed the following minimum requirements:

1. Operating System – Windows 2016
2. Processor – 4.0 GHz Dual Pentium Xeon Processor
3. Memory – 4GB
4. Hard Drive – 1 TB
5. Communications – Integrated Gigabit Ethernet
6. Graphics – 256MB PCIe x16 nVidia Quadro NVS 285, Dual VGA Capable
7. Optical – 16X DVD+/-RW
8. 3 PCI Expansion Slots
9. SQL Server 2016 Standard Edition with (5) client access licenses or better
10. Four (4) USB ports
11. Parallel Printer Port
12. 20" LCD Monitor
  - a. 1600x1200 pixels resolution for sharp and brilliant images of text and graphics
  - b. 8 ms response time enables crisp and clear images
  - c. Contrast ratio of 600:1 delivers high color accuracy and uniformity
  - d. Digital DVI-D and analog input.

## **2.11 TOUCHSCREEN PC FOR MONITORING**

A. Each Touchscreen PC shall function as the primary means of overall system control and monitoring. The computer equipment shall be arranged to present an efficient and organized appearance. (1 REQUIRED AT STAFF MONITORING STATION)

- B. The computer equipment shall be arranged to present an efficient and organized appearance. The following components shall be located with the workstation:
1. PC based computer.
  2. Touchscreen Panel.
- C. Provide computer equipment that meets the following minimum specification requirements:
1. Intel Pentium microprocessor operating at 4 GHz. 4 MB L3 Cache.
  2. 4 GB, 533 MHz, DDR2 SDRAM memory.
  3. Two (2) 1 Terrabyte SATA with RAID
  4. One (1) 48X24X48 IDE CD-RW drive with 8 MB memory, 700 MB media capacity and fifty (50) CD's.
  5. Local bus 64 bit IDE controller capable of supporting two (2) hard disk drives.
  6. ISA expansion bus with three spare expansion slots.
  7. 48X CD-RW and 16X DVD+RW/+R and fifty (50) CD's.
  8. Single SVGA video output card 1820 X 1200 pixels at 76Hz, 256 color) with 128 MB DDR SDRAM Memory.
  9. 9. Harman/Kardon HK-206 speakers, 3 watts each, 3 in. full range driver, 90 Hz-20Hz frequency response.
  10. Tower type chassis including high capacity power supply with surge suppressor.
  11. 101 key keyboard.
  12. Microsoft mouse.
- D. Audio tone generator to activate on reception of an alarm. Audio tone shall be capable of being enabled or disabled on operator command.
- E. A touchscreen panel (monitor) shall be the primary means of operator access to the system. They shall provide the operator interface for control of the entire system.
- F. A keyboard and mouse are the secondary means of operator access to the system. To communicate with the direct digital control system, the operator shall input via the keyboard or mouse a command along with a proper alphanumeric identification of the system. Keyboard shall have standard ASCII coded logic outputs, providing full International English language displays and printouts. Auxiliary function keys shall be provided for various functions. These keys shall allow common operations to be performed by punching a single key instead of having to type out the command on the keyboard.
- G. A digital display clock shall display on the monitor at all times. Provision for manually resetting it shall be provided. It shall be a 24 hour real-time clock and seven-day calendar to provide data for logging.
- H. A network control key or software passwords shall allow automatic functions of the system to continue, but prevent unauthorized tampering with any computer pushbuttons or controls while the computer is unattended. This shall not disable the scanning or alarming functions.

## **2.12 VIDEO SURGE SUPPRESSERS**

- A. Minimum surge protection of 100 amps.

- B. Response time 5 nanoseconds or less.
- C. 75 ohm input/output.

### **2.13 CAMERA POWER SUPPLY**

- A. Unit shall be a multiple 24VAC output power supply with sixteen individually protected circuit breakers.
- B. Unit shall be equipped with board mounted slide switches allowing each unused output to be shut-off.
- C. Unit shall have a minimum of 8 amp continuous current output.
- D. Unit shall incorporate a green LED indicator for incoming AC power.
- E. Unit shall be housed in a metal enclosure with vents for heat dissipation.
- F. Unit shall be UL listed.

### **2.14 INSTALLATION**

- A. Comply with manufacturer's recommendations, procedures and standards for the assembly and operation of the CCTV cameras.
- B. Use screw type terminals and crimped lugs for camera power cable terminations.
- C. Use BNC connectors, sufficiently sized for each cable type, for all coaxial cable terminations.
- D. Install all exterior camera enclosures, conduits, and fittings to meet NEMA-4X and IP66 rating.
- E. Coordinate with signage, lighting fixtures, etc. to install all cameras as close to the indicated locations on plans as physically possible. Notify the Owner immediately upon discovering any potential interference that may obstruct the video pictures or reduce the video quality of the devices. Ensure that the minimum distance from any lighting fixture in front of a camera is four (4) feet.
- F. Provide video surge protection on all non fiber optic outdoor cameras at the nearest point of entry into the building.

### **2.15 FIELD QUALITY CONTROL**

- A. After installation of the video surveillance system, and prior to performance testing, functionally test all cameras, video equipment, and other hardware interconnections, and all interfaces to other systems. In addition, conduct the following adjustments and measurements:
  - 1. Field-of-View Testing: After camera and lens installation, and with CCTV monitoring equipment installed, demonstrate the field-of-view of each camera/lens combination to the Owner. Replace lens type and/or adjust camera positioning as needed to obtain the Owner's desired field-of-view at no additional cost.

B. Performance Testing

1. Demonstrate proper alignment, adjustment, and switching, sequencing, auto-positioning and system performance for all camera locations with all required sequences of operation under all operating modes. Demonstrate proper interface with all other security electronic systems.

C. Continuous Operational/Functional Testing

**2.16 TRAINING**

- A. Provide qualified technicians certified by the product manufacturers to perform the training. Submit evidence of qualifications for Owner's approval prior to training.

**2.17 SPARE PARTS**

- A. Deliver the following spare parts to the Owner at a location to be designated:

- (2) Fixed Camera
- (1) PTZ Camera

**28 26 00 - DURESS ALARM SYSTEM**

A. Description:

1. Section Includes:
  - a. Duress Alarm Stations.
2. System Description
  - a. The facility will be provided with duress alarm stations in critical areas of potential threats. Desk mounted stations will be push activated with a silence and reset performed at the HMI Station.
  - b. Duress Alarm System (Basic Operation):
    1. When activated, a duress alarm will annunciate the location of the alarm at the main Station.
    - 2) A duress alarm within a control room will automatically activate a lockdown sequence for the building. When the building is under lockdown, the HMI within the control room will not function and all doors will automatically return to secure status.
    - 3) Under Desk Mounted Stations: Push to Activate, HMI reset.

B. Products:

1. Manufacturers
  - a. Subject to compliance with requirements, provide duress alarm system equipment and components including, but not limited to, the following NO SUBSTITUTIONS (the County is standardizing across multiple existing facilities):
  - b. Acceptable Products:
    - 1) Duress Station, under-desk..... Amseco Husk 20

## **28 05 13 - CONDUCTORS AND CABLES**

- A. Description:
1. Provide wiring and cables as described herein, shown on the drawings or as recommended by the manufacturer. When in conflict, the more stringent or greater requirements will take precedence as determined by the Project Manager.
  2. Wires, cables, harnesses and connectors specifically described in another section or provided by or manufactured by a manufacturer in that section shall be provided by that section.
  3. Wire size and features are minimum requirements, specific applications or manufacturers may have more stringent requirements which are to be provided at no additional cost to Owner.
- B. Products:
1. Approved cable manufacturers:
    - a. Belden
    - b. Berk-tek
    - c. Commscope/General Instrument
    - d. General Cable
    - e. Mohawk
    - f. Optical Cable Corporation.
    - g. VersaLAN
    - h. West Penn
  2. Connectors
    - a. Terminal Blocks:
      1. Type: DIN-rail-mounted, modular, screw terminals.
      2. Provide fused terminals where required or indicated.
      - 3.
      4. Accepted Manufacturers:
      5. Entrelec, Phoenix Contact, Weidmueller, or approved equal.
    - b. CCTV Video Connectors:
      1. Type: 75-ohm, commercial crimp-on, 3-piece BNC connectors.
      2. Body: Zinc outer piece and nickel center.
      3. Contacts: Nickel/gold plating.
      4. Accepted Products: Cambridge CPMC-78 series, AMP or approved equal from other manufacturers.
    - c. Data Connectors:
      1. Type: Deluxe plastic, 9-pin, D sub-miniature hoods
      2. Accepted Products: Cambridge HX series, AMP or approved equal from other manufacturers.
  3. Wires and Cables
    - a. Cables installed below grade (even in conduit) shall be rated for use in wet locations.
    - b. Listings and Markings: UL listed and marked for flame resistance as follows:
      1. General purpose: CEC Type CM
      2. Riser: CEC Type CMR
      3. Plenum: CEC Type CMP
    - c. Communication and Control Cables:



1. Conductors: Stranded bare copper, size as indicated.
  2. Insulation level: 300 VRMS.
  3. Temperature level: 75° C.
  4. Paired cables shall be twisted.
  5. Shield: 100% coverage aluminum polyester foil with drain wire.
- d. Coaxial Cables:
1. Nominal impedance: 75 ohms.
  2. Conductor: Stranded bare copper.
  3. Dual shield: 100% coverage aluminum polyester tape with 95% coverage tinned copper braid.
  4. Maximum attenuation at 10 MHz: 0.87 dB per 100 feet.
  5. Insulation: Foam polyethylene, 300 VRMS.
  6. Minimum temperature level: 75° C
- e. Data Grade Cables:
1. Type: Twisted individually shielded pairs, quantity and size as indicated.
  2. Conductors: Stranded bare copper.
  3. Insulation level: 300 VRMS.
  4. Minimum temperature level: 75° C
  5. Maximum capacitance between conductors: 25 pf per foot.
  6. Shield: 100% coverage aluminum polyester foil with drain wire.
- f. Category 6 UTP
1. UL listed NEC type CM as defined in NEC Article 800
  2. Complies with UL 1581 Test
  3. Meets and Exceeds TIA/EIA 568-B.2 Specifications
- g. Category 3 UTP
1. High pair count unshielded 24-AWG solid conductor twisted-pair core with a metallic sheath ARMM riser rated shall meet or exceed the TIA/EIA-568B Commercial Building Standards for CAT3. The cable will be riser or plenum rated as dictated by National, State and Local Electrical and Building Codes.
- h. Optical Fiber Cable – Multimode
1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
    - a) Berk-Tek; a Nexans company.
    - b) Belden CDT Inc.; Electronics Division.
    - c) CommScope, Inc.
    - d) Corning Cable Systems.
    - e) General Cable Technologies Corporation.
    - f) Mohawk; a division of Belden CDT.
    - g) Superior Essex Inc.
    - h) SYSTIMAX Solutions; a CommScope Inc. brand.
  2. Description: Multimode, 50/125 micrometer, 24 fiber, nonconductive, tight buffer, optical fiber cable.
    - a) Comply with ICEA S-83-596 for mechanical properties.
    - b) Comply with TIA/EIA-568-B.3 for performance specifications.
    - c) Comply with TIA/EIA-492AAAA-B for detailed specifications.
    - d) Listed and labeled by an NRTL acceptable to authorities having jurisdiction as complying with UL 444, UL 1651, and NFPA 70.
  3. Conductive cable shall be aluminum armored type.
  4. Maximum Attenuation: 3.50 dB/km at 850 nm; 1.5 dB/km at 1300 nm.

5. Minimum Modal Bandwidth: 2000 MHz-km at 850 nm; 500 MHz-km at 1300 nm.
- i. Jacket:
1. Jacket Color: Aqua for 50/125-micrometer cable.
  2. Cable cordage jacket, fiber, unit, and group color shall be according to TIA/EIA-598-B.
  3. Imprinted with fiber count, fiber type, and aggregate length at regular intervals not to exceed 40 inches (1000 mm).
  4. Optical Fiber Cable – Single Mode
    - a. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
      1. Berk-Tek; a Nexans company.
      2. Belden CDT Inc.; Electronics Division.
      3. CommScope, Inc.
      4. Corning Cable Systems.
      5. General Cable Technologies Corporation.
      6. Mohawk; a division of Belden CDT.
      7. Superior Essex Inc.
      8. SYSTIMAX Solutions; a CommScope Inc. brand.
    - b. Description: Single-mode, 12 fiber, nonconductive, tight buffer, optical fiber cable.
      1. Comply with ICEA S-83-596 for mechanical properties.
      2. Comply with TIA/EIA-568-B for performance specifications.
      3. Comply with IEC 60793-2-50 Type B.1.1.
      4. Comply with TIA/EIA-492CAA for detailed specifications.
  5. Listed and labeled by an NRTL acceptable to authorities having jurisdiction as complying with UL 444, UL 1651, and NFPA 70 for the following types:
    - a. General Purpose, Nonconductive: Type OFN or OFNG.
    - b. Plenum Rated, Nonconductive: Type OFNP, complying with NFPA 262.
    - c. Riser Rated, Nonconductive: Type OFNR or OFNP, complying with UL 1666.
    - d. General Purpose, Conductive: Type OFC or OFCG.
    - e. Plenum Rated, Conductive: Type OFCP, complying with NFPA 262.
    - f. Riser Rated, Conductive: Type OFCR or OFCP, complying with UL 1666.
  6. Conductive cable shall be aluminum armored type.
  7. Maximum Attenuation: 0.7 dB/km at 1310 nm; 0.370 dB/km at 1550 nm.
    - a. Jacket:
      1. Jacket Color: Yellow for all Single-mode cable.
      2. Cable cordage jacket, fiber, unit, and group color shall be according to TIA/EIA-598-B.
      3. Imprinted with fiber count, fiber type, and aggregate length at regular intervals not to exceed 40 inches (1000 mm).

**C. Execution:**

1. Comply with manufacturer's recommendations, procedures, and standards for the assembly, programming, and operation of the alarm system.
2. Coordinate closely with the door and frame contractor for proper installation of all door position sensors per manufacturer's recommendations.
3. Mount individual components to removable rear panels in wall-mounted cabinets using DIN rails, snap track or stand off-mounted PC boards, or properly sized mounting hardware.
4. Fuses: Provide over-current protection for control relay outputs and associated wiring.
5. Power Distribution:
  - a. Hardwire each system power supply circuit to a line voltage transient voltage surge suppresser at its point of supply.
  - b. Coordinate with the electrical contractor for power capacities and circuit assignments in the electrical panel schedules and drawings for the alarm systems. Notify the Owner if additional power or circuits may be required.
6. Wire Termination, Dressing, and Identification:
  - a. Terminate or join all wires and cables with specified terminal blocks or connectors submitted and accepted for the specific termination. Acceptable termination and junction methods include:
    7. Equipment or device terminal blocks (provided with equipment or device): Direct connection with stripped conductors.
    8. Equipment or device screw terminals (provided with equipment or device): Two-crimp, spade lug on stripped conductors.
    9. Device lead wires (provided with device): Two-crimp, insulated wire nut over conductors.
    10. Equipment or device connector (provided with equipment or device): Provide mating connector.
  11. Junctions and/or splices where indicated: Provide terminal blocks for control and communication cables and specified connector types for others.
    - a. Use the specific cable stripper for each cable and wire type. Use a 3-step-cut coax cable stripper on coaxial cables, a jacket stripper on jacketed cables, and the proper size stripper for individual conductors. Do not strip with a knife, scissors or other improper tool.
    - b. Use the proper crimping tool for each cable / connector combination. For example, crimp coaxial cables using a full-cycle ratchet crimp tool with the specific size hexagonal steel die for the cable type. Crimp D-subminiature connectors using a specific D-sub crimp tool, and so on.
    - d. For multi-pin connectors use the appropriate pin insertion and extraction tool.
    - e. Dress wires and cables to provide a neat and orderly appearance within all enclosures, equipment racks, cabinets, consoles by routing in snap-cover, plastic wiring duct or other acceptable method. In locations where wiring duct is not feasible, organize by cable clamping, dressing and tie-wrapping.
    - f. Relieve strain on all loose wire bundles using tie-wrap supports fastened with machine screws or bolts. Do not use self-adhesive type supports.
    - g. Neatly form cable ends and apply shrinkable tubing to shielded cables or where necessary to secure the insulation against fraying or raveling.
    - h. Individually identify all conductors with a unique number located within 1-1/2-inch from its termination at both ends. Impress the number on a fixed length of white shrinkable tubing with a heat impression stamping machine, or other acceptable method.

- i. Cross reference the interconnection diagrams of the record drawings with the installed cable identification numbers.
- j. Route from source to termination in a uniform manner through raceways, cabinets, and equipment housings without breaking the insulation or deforming the cables. "Flying splices", meaning splices in wire bundles, raceways, or pull boxes are specifically prohibited. Splice only at junction box locations shown on the Drawings.
- k. Obtain Owner's pre-approval for all exposed cable runs.
- l. Maintain separation between Class 1, Class 2, communications, and branch circuit power wire and cable in accordance with the CEC. Do not route microphone-level audio, line-level audio, or high-level audio in the same conduit or cable group.
- m. Do not exceed the following cable pulling tensions:
  - 1) 24 AWG conductors: 4 lbs. per conductor.
  - 2) 22 AWG conductors: 7 lbs. per conductor.
  - 3) 20 AWG conductors: 12 lbs. per conductor.
  - 4) 18 AWG conductors: 19 lbs. per conductor.
  - 5) 16 AWG conductors: 30 lbs. per conductor.
  - 6) 14 AWG conductors: 48 lbs. per conductor.
- n. Use a scale to measure tensions for typical cable pulls. If tensions are exceeded even momentarily or if cables are damaged, remove the cables. Install new cables either using an acceptable anti-friction agent or adding pull boxes to the run.
- o. Install edge protection materials ("cat track") on the edges of holes, lips of ducts of any other point where wires or cables cross sharp metallic edges.

### PART III – WARRANTY

#### **WARRANTY:**

Contractor shall warranty all labor provided and manufacturer's warranty on installed equipment and systems for two (2) years from beneficial use date. Items will be covered in full for manufacturer warranted materials and labor for devices provided and installed by Contractor only. Contractor will, at the manufacturer's discretion, replace or repair any equipment determined to be defective. Warranty exceptions: Any device or system modification performed by non-Contractor personnel or designated subcontractor will void warranty, as well as Acts of Nature, vandalism, or misuse of system device(s). Liability is limited to repair and/or replacement of equipment installed by the Contractor or Subcontractor.

#### **WARRANTY SUPPORT:**

Critical Issue Support- 7/24, with a 4 hour response time. Contractor shall provide as required, either on-site or remote diagnostics, for any catastrophic system failures or perimeter device serviced issues. Non-Critical Issue Support- Next business day will be provided by the Contractor and get a signature by a City/County employee at completion of the project.

DEVICE AND WIRING LEGEND ACCESS CONTROL

SYMBOL	DESCRIPTION	MOUNTING HEIGHT	BACK BOX	WIRING	NOTES
ACP	ACCESS CONTROL PANEL	SEE DETAILS	SEE DETAILS	1 120VAC EMERGENCY 20AMP CIRCUIT 1 LAN/ WAN DROP	
CRH	CRH CARD READER, PROXIMITY TYPE.	READER - +42" A.F.F. TO CENTER ALARM CONTACT IN DOOR FRAME	4S W/ SINGLE GANG RING	1-#18/2 SHIELDED PLENUM (DATA) 1-#18/4 PLENUM (POWER, LED)	A
	A CONCEALED MAGNETIC ALARM CONTACT	N/A	N/A	1-#18/2 SHIELDED PLENUM PER CONTACT	C
	EL ELECTRIC LOCK	N/A	N/A	1-#18/2 PLENUM	B
	REX REQUEST TO EXIT	IN DOOR	N/A	1-#18/2 SHIELDED PLENUM (REX CONTACT) 1-#18/2 PLENUM (REX POWER)	
KPH	KEYPAD	READER - +42" A.F.F. TO CENTER ALARM CONTACT IN DOOR FRAME	4S W/ SINGLE GANG RING	1-#18/2 SHIELDED PLENUM (DATA) 1-#18/4 PLENUM (POWER, LED)	
EDR	EMERGENCY DOOR RELEASE	SEE DETAILS	SEE DETAILS	1 120VAC EMERGENCY 20AMP CIRCUIT 1 LAN/ WAN DROP	

DEVICE AND WIRING LEGEND CCTV

SYMBOL	DESCRIPTION	MOUNTING HEIGHT	BACK BOX	WIRING	NOTES
DVR	DIGITAL VIDEO RECORDER	SEE DETAILS	SEE DETAILS	SEE DETAILS	
	CLOSED CIRCUIT TELEVISION FIXED CAMERA WITH PROPER VARIFOCAL AUTO-IRIS LENS AND ENCLOSURE	SEE SCHEDULE	CUSTOM	RG59U COAX PLENUM 1-#18/2 PLENUM (CAMERA POWER)	D
M	MONITOR (DESK MOUNT)	DESK TOP MOUNT	N/A	120 VAC RG59U COAX PLENUM	
QUAD	CCTV QUAD UNIT	N/A	N/A	N/A	

DEVICE AND WIRING LEGEND SECURITY

SYMBOL	DESCRIPTION	MOUNTING HEIGHT	BACK BOX	WIRING	NOTES
	INTRUSION ALARM PANEL	SEE DRAWINGS	N/A	N/A	
A	CONCEALED MAGNETIC ALARM CONTACT OR GATE ALARM CONTACT (SP/ST)	N/A	N/A	1-#18/2 SHIELDED PLENUM PER CONTACT	C
MD	MOTION DETECTOR (380°)	CEILING MOUNT	OUTLET BOX	1-#18/2 SHIELDED PLENUM (CONTACT) 1-#18/2 PLENUM (POWER)	
HB	HELP BUTTON (DESK MOUNTED)	IN CASEWORK	N/A	1-#18/4 PLENUM	
EPH	EMERGENCY PHONE WITH STROBE LIGHT	WALL MOUNT	SEE DETAIL	1-#18/2 (POWER) 1-CATS (TO PHONE DESK)	
O	TURNSTILE CONTROL PANEL	DESKTOP	N/A	CUSTOM	
LA	LA LOCAL ALARM	+48" A.F.F. TO CENTER	THREE-GANG DEEP SWITCH BOX	1-#18/2 SHIELDED PLENUM (CONTACT ALARM) 1-#18/2 PLENUM (POWER) 1-#18/2 SHIELDED PLENUM (KEY BYPASS STATUS) 1-#18/2 PLENUM (SPARE TO ACCESS CONTROL)	
	A CONCEALED MAGNETIC ALARM CONTACT	N/A	N/A	1-#18/2 SHIELDED PLENUM (OR CONTACT TO LA)	C

DEVICE AND WIRING LEGEND MISCELLANEOUS

SYMBOL	DESCRIPTION	MOUNTING HEIGHT	BACK BOX	WIRING	NOTES
J	JUNCTION BOX	SEE DRAWINGS	SEE DRAWINGS	SEE DRAWINGS	
	LAN/WAN CONNECTION	SEE DRAWINGS	SEE DRAWINGS	1 CAT 5E	
	TELECO CONNECTION	SEE DRAWINGS	SEE DRAWINGS	1 CAT 3	
	120VAC - 1-20 AMP CIRCUIT	SEE DRAWINGS	SEE DRAWINGS	SEE DRAWINGS	
WS	COMPUTER WORK STATION	N/A	N/A	SEE DRAWINGS	

DEVICE AND WIRING LEGEND NOTES:

1 CARD READER AND LOCAL ALARM SYMBOL ON FLOOR PLAN DRAWINGS INCLUDES ALL ASSOCIATED DEVICES (AS SHOWN IN BRACKETS ABOVE).

Total of 23 cameras in the building

SECURITY DRAWING SCHEDULE

SE0.01	SECURITY ELECTRONICS	COVER SHEET
SE2.01	SECURITY ELECTRONICS	FIRST FLOOR PLAN
SE2.02	SECURITY ELECTRONICS	SECOND FLOOR PLAN
SE2.03	SECURITY ELECTRONICS	THIRD FLOOR PLAN
SE2.04	SECURITY ELECTRONICS	FOURTH FLOOR PLAN
SE2.05	SECURITY ELECTRONICS	FIFTH FLOOR PLAN
SE2.06	SECURITY ELECTRONICS	SIXTH FLOOR PLAN
SE3.01	SECURITY ELECTRONICS	RISER DIAGRAM
SE4.01	SECURITY ELECTRONICS	DETAILS SHEET
SE4.02	SECURITY ELECTRONICS	DETAILS SHEET
SE4.03	SECURITY ELECTRONICS	DETAILS SHEET
SE4.04	SECURITY ELECTRONICS	DETAILS SHEET

DEVICE LEGEND NOTES

- FURNISH AND INSTALL LOCK POWER SUPPLIES FOR ALL DOORS EQUIPPED WITH ELECTRIC LOCKS, EXCEPT AS FOLLOWS:  
IF POWER SUPPLY IS SPECIFIED IN HARDWARE GROUP, POWER SUPPLY SHALL BE FURNISHED BY HARDWARE CONTRACTOR, AND INSTALLED & POWERED BY DIVISION 16. SECURITY CONTRACTOR TO PROVIDE AND INSTALL ALL LOW VOLTAGE WIRING, TERMINATIONS, AND INTERFACE TO ACCESS CONTROL SYSTEM.
- ALL EXIT DOORS TO REMAIN FREE OPENING FROM EXIT SIDE.
- ON DOUBLE DOORS INSTALL TWO (2) CONTACTS, SERIES THE CIRCUIT AT THE DOORS AND RUN ONE CABLE TO HEAD-END.
- CAMERAS WITH HEATERS AND/OR BLOWERS REQUIRE ONE ADDITIONAL 18/2 PLE CABLE.
- ALL CABLES TO BE PLENUM RATED.

ABBREVIATIONS

A.F.F.	- ABOVE FINISHED FLOOR	U.O.N.	- UNLESS OTHERWISE NOTED
T.B.D.	- TO BE DETERMINED	F.O.V.	- FIELD OF VIEW
N/A	- NOT APPLICABLE	A.C.P.	- ACCESS CONTROL PANEL
SH	- SHIELDED	I.A.P.	- INTRUSION ALARM PANEL
TW	- TWISTED	V.I.F.	- VERIFY IN FIELD
WP	- WEATHER PROOF	E	- EXISTING
S.O.C.	- SECURITY OPERATIONS CENTER	N	- NEW
RECP	- RECEPTION		

SCOPE OF WORK

- SECURITY CONTRACTOR SHALL PROVIDE, INSTALL AND PROGRAM A COMPLETELY FUNCTIONAL AND OPERATIONAL SYSTEM AS SHOWN ON DRAWINGS AND SPECIFICATIONS.
- THE SECURITY CONTRACTOR SHALL PROVIDE A PHASED INSTALLATION OF THE ELECTRONIC SECURITY BASED ON THE OWNER AND GENERAL CONTRACTOR'S SCHEDULE.
- SECURITY CONTRACTOR SHALL PROVIDE AND INSTALL ALL CONDUIT, WIRING, DEVICES, CONNECTIONS, PROGRAMMING, AND COORDINATION REQUIRED FOR A COMPLETELY FUNCTIONAL AND OPERATIONAL SYSTEM. SECURITY CONTRACTOR SHALL PROVIDE ANY CUSTOM BACKBOXES REQUIRED.
- PROVIDE AND INSTALL ALL CONDUIT, BACK BOXES, PULL BOXES AS SHOWN ON DRAWINGS.
- PROVIDE AND INSTALL FIRE ALARM SYSTEM INTERFACES WHERE REQUIRED.
- INCLUDE FINAL CONNECTION, PROGRAMMING, TRAINING, AND TESTING OF THE WORK TO THE HEAD-END EQUIPMENT.
- ATTENDANCE AT WEEKLY CONSTRUCTION COORDINATION MEETINGS.
- COORDINATION OF WORK WITH OTHER DESIGN AND INSTALLATION TRADES.
- SUBMITTAL OF PERMIT DRAWINGS AND OBTAINING ALL REQUIRED PERMITS, INSPECTIONS AND APPROVALS FROM THE AUTHORITIES HAVING JURISDICTION.
- THE OWNER WILL PROVIDE APPROPRIATE NETWORK CONNECTIONS AND TELEPHONE JACKS AT LOCATIONS TO BE IDENTIFIED BY THE SECURITY CONTRACTOR, AND AS SHOWN ON THE DRAWINGS. THE OWNER WILL ALSO PROVIDE PC'S FOR WORKSTATIONS AND OTHER CONVENTIONAL COMPUTER EQUIPMENT REQUIRED FOR THE ACCESS CONTROL AND CCTV SYSTEMS. THE SECURITY CONTRACTOR SHALL PROVIDE EQUIPMENT SPECIFICATIONS, AND BE RESPONSIBLE FOR PROVIDING AND INSTALLING NECESSARY SOFTWARE AND FOR CONFIGURATION OF THE EQUIPMENT.

INSTALLATION NOTES

- ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND ALL APPLICABLE LOCAL CODES. THE CONTRACTOR SHALL NOT INTERMIX ANY HIGH VOLTAGE POWER WIRES (120VAC) WITH ANY LOW VOLTAGE SIGNAL OR CONTROL WIRES IN ANY CONDUIT.
- VERIFY ALL FIELD DIMENSIONS AND CONDITIONS, NOTIFY ARCHITECT OF ANY DISCREPANCIES FOUND. VERIFY DIMENSIONS OF ALL OWNER FURNISHED EQUIPMENT & SERVICES TO ENSURE PROPER COORDINATION WITH CONSTRUCTION.
- SCHEDULE ALL WORK, INCLUDING CONSTRUCTION ACCESS AND STORAGE, WITH THE OWNER OR THOSE DESIGNATED BY THE OWNER. THE CONSTRUCTION SCHEDULE SHALL BE APPROVED BY THE OWNER PRIOR TO THE START OF CONSTRUCTION.
- ALL UTILITIES REQUIRED FOR THE CONTINUOUS OPERATION OF ALL EXISTING FACILITIES MUST BE MAINTAINED IN SERVICE AT ALL TIMES (IF APPLICABLE).
- CONTRACTOR SHALL PROVIDE DUST PROTECTION AS REQUIRED TO CONTAIN DUST AND DEBRIS WITHIN CONSTRUCTION AREA, BROOM CLEAN ALL AREAS EACH DAY.
- COORDINATE WITH THE OWNER TO DETERMINE IF REMOVED ITEMS (IF APPLICABLE) WILL BE KEPT BY THE OWNER. COORDINATE A STORAGE LOCATION AND DELIVER AS DIRECTED BY THE OWNER. DISPOSAL OF OLD EQUIPMENT SHALL BE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL LAWS.
- WORK SHALL BE EXECUTED IN A CAREFUL AND ORDERLY MANNER WITH THE LEAST POSSIBLE DISTURBANCE TO THE PUBLIC AND OCCUPANTS OF EXISTING BUILDINGS. INTERRUPTING PERSONNEL AT WORK AS A RESULT OF THIS UNDERTAKING SHALL ALWAYS BE TO A MINIMUM. CONTRACTOR SHALL PROVIDE TRAFFIC AND SAFETY SIGNS AND BARRIERS WHERE NECESSARY. NO POWER LINE IN THE BUILDING SHALL BE SHUT DOWN UNLESS REQUESTED AND APPROVED BY THE OWNER IN ADVANCE.
- THE CONTRACTORS AND SUBCONTRACTORS PERFORMING WORK ON PREMISES SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING A REASONABLE AND PRUDENT SAFETY PROGRAM INCLUDING, BUT NOT LIMITED TO, THE ISOLATION OF WORK AREAS AND THE PROMPT REMOVAL OF ANY DEBRIS OR TOOLS WHICH MIGHT ENDANGER VISITORS OR EMPLOYEES OF THE FACILITY. ALL ROADS AND WALKWAYS SHALL REMAIN CLEAR AND UNOBSTRUCTED. WHEN NECESSARY ALTERNATE ROUTES MUST BE MAINTAINED, SHOULD UNSAFE CONDITIONS OCCUR.
- COORDINATION WITH OTHER CONTRACTORS:  
IF ANY PART OF THE CONTRACTOR'S WORK DEPENDS UPON THE WORK OF A SEPARATE CONTRACTOR, THIS CONTRACTOR SHALL INSPECT SUCH OTHER WORK AND PROMPTLY REPORT IN WRITING TO THE PROJECT ARCHITECT ANY DEFECTS IN SUCH OTHER WORK THAT RENDER IT UNSUITABLE TO RECEIVE THE WORK OF THIS CONTRACTOR. FAILURE TO INSPECT AND REPORT SHALL CONSTITUTE AN ACCEPTANCE OF THE OTHER CONTRACTOR'S WORK EXCEPT AS TO DEFECTS WHICH DEVELOP IN OTHER CONTRACTOR'S WORK AFTER EXECUTION OF THIS CONTRACTOR'S WORK.
- THE CONTRACTOR SHALL ALWAYS MAINTAIN, AT THE JOB SITE, UPDATED "RECORD" DRAWINGS. THESE DRAWINGS SHALL BE AVAILABLE TO THE ARCHITECTS, INSPECTORS OR THE OWNERS UPON REQUEST.
- NO CABLE RUN SHALL BE SPLICED UNLESS TWO OR MORE DEVICES ARE CONNECTED TO THE SAME CIRCUIT OR THE DEVICE IS PROVIDED FROM THE FACTORY WITH PIGTAIL WIRES. WHERE SPLICING IS REQUIRED, THE SPLICE SHALL BE SOLDERED AND TAPED, IT SHALL BE DONE IN EITHER A SPECIAL TERMINAL BOX, AT THE BACK BOX OR AT THE DEVICE TERMINAL LUGS. ALL SPLICE BOXES MUST BE IN ACCESSIBLE AREAS AND CLEARLY MARKED ON THE RECORD DRAWINGS.
- ALL WIRES SHALL BE COLOR CODED AND SHALL BE CONNECTED IN A UNIFORM MANNER. TRANSPOSING OR CHANGING OF COLOR CODES SHALL NOT BE PERMITTED. WIRE AND CABLE SIZES, NUMBER OF CONDUCTORS, SHIELDING OR OTHER ITEMS LISTED ON THESE DRAWINGS ARE A GUIDE TO THE CORRECT PRODUCT REQUIRED TO ACHIEVE A WORKING SYSTEM AND REPRESENT THE MINIMUM ACCEPTABLE STANDARDS. CONTRACTOR SHALL CONSULT MANUFACTURER'S RECOMMENDATION FOR CABLE AND USE WHICHEVER IS GREATER IN QUALITY, QUANTITY, GAUGE, SHIELDING AND NUMBER OF CONDUCTORS.
- ALL WIRING, INCLUDING SHIELDS, MUST BE FREE OF SHORTS, GROUNDS AND STRAY VOLTAGES. ALL RATED FOR WET APPLICATIONS. ALL EXPOSED SURFACE MOUNTED CABLE UNDER 12' A.F.F. SHALL BE IN CONDUIT.
- INSTALL ALL SECURITY CABLING IN CONDUIT.
- A PRE PRINTED VINYL MATERIAL MARKER WRAPPED IN ADHESIVE CLEAR PLASTIC SHALL BE PROVIDED TO THE FOLLOWING:  
A. CABLES WITHIN 6" UPON ENTRY AT ANY SECURITY PANEL, TERMINATION OR SPLICE BOX.  
B. ALL WIRE LEADS WITHIN 2" FROM ANY TERMINAL BLOCK.  
C. THE CONTRACTOR SHALL SUBMIT SAMPLES OF MARKERS AND ANY NUMBERING OR MARKING SYSTEM FOR REVIEW PRIOR TO IMPLEMENTATION.
- ALL ELECTRICAL POWER SUPPLIED TO SECURITY EQUIPMENT OR DEVICES SHALL BE ON AN EMERGENCY SYSTEM INCLUDING UPS WHERE AVAILABLE. ALL CONDUCTORS AND CIRCUIT BREAKERS SHALL BE SIZED IN ACCORDANCE WITH THEIR CONNECTED LOADS (20 AMP MINIMUM). ALL CIRCUITS SHALL BE DEDICATED. A GROUND CONDUCTOR SHALL ALWAYS BE INSTALLED IN ANY POWER WIRING. ALL SECURITY EQUIPMENT UTILIZING ELECTRICAL POWER SHALL ALSO BE ADEQUATELY GROUNDED.
- WHERE A CIRCUIT FOR SECURITY IS TAKEN FROM A LOAD CENTER UTILIZED FOR OTHER ELECTRICAL PURPOSES, THE BRANCH CIRCUIT BREAKER FOR SECURITY EQUIPMENT SHALL BE LOCKABLE TYPE TO PREVENT ANY ACCIDENTAL SWITCH-OFF. NO SECURITY CIRCUIT IS TO BE SHARED WITH NON SECURITY EQUIPMENT.
- THE CONTRACTOR SHALL PROPERLY SEAL ALL CONDUIT OR SLEEVE PENETRATIONS THROUGH ALL WALLS, FLOORS AND CEILINGS USING APPROVED FIRE STOPPING MATERIALS AND SEALANTS REGARDLESS OF RATING AND AS PER APPLICABLE BUILDING CODES.
- ALL ROUTING OF WIRING AND ANY RELATED CONDUIT IS DIAGRAMMATIC. CONTRACTOR SHALL FIELD VERIFY EXACT ROUTING PRIOR TO INSTALLATION.
- PROVIDE PULL STRINGS IN ALL ITEMS. PROVIDE BLANK CONDUIT ON ALL JUNCTION AND PULL BOXES.
- ALL CONDUITS AND CABLE PATHS SHALL RUN PARALLEL WITH OR AT RIGHT ANGLES TO THE WALLS. IF MORE THAN THREE 90 DEGREE BENDS ARE TO BE USED IN THE CONDUIT RUN, INSERT A PULL BOX. CONTRACTOR SHALL SIZE THE BOX ACCORDINGLY. CONDUITS SHALL BE SIZED AS INDICATED ON THE DRAWINGS OR LARGER AS REQUIRED TO COMPLY WITH CODE. MINIMUM ALLOWABLE CONDUIT SIZE SHALL BE 3/4".
- THE CONTRACTOR SHALL CLEAN AND THOROUGHLY CHECK ALL INSTALLED WORK PRIOR TO CONCEALING OF ARCHITECTURAL FINISHING, CLEAN ALL EXPOSED SURFACES AND NEW EQUIPMENT AFTER COMPLETION. THE CONTRACTOR SHALL ALSO REPAIR OR CLEAN ALL SOILED SURFACES, PAINTED SURFACES OR DAMAGED ARCHITECTURAL FINISHES TO MATCH THE ADJACENT AREA. WHERE REQUIRED, CLEANING, PATCHING OR PAINTING TO BRING THE AFFECTED SURFACE OR FINISH BACK TO ITS ORIGINAL CONDITION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL SECURITY DEVICES AND EQUIPMENT SHALL BE INSTALLED WITH CONSIDERATION TO BARRIER FREE ACCESSIBILITY.
- WHERE CONCRETE FLOORS ARE TO BE CORED, AN X-RAY MACHINE SHALL BE USED TO INSURE THAT NO STRUCTURAL ELEMENTS (E.G. REBAR) WILL BE COMPROMISED OR DAMAGED.
- WHERE THE CONTRACTOR HAS TO CHANGE ANY DEVICE TYPE OR MOUNTING TO SUIT ACTUAL CONDITIONS, THIS SHALL BE DONE WITHOUT EXTRA COST TO THE OWNERS. THIS INCLUDES ANY ADDITIONAL PART TO BE SUPPLIED BY THE CONTRACTOR TO ACCOMPLISH PROPER MOUNTING OF A DEVICE. HOWEVER, IT SHALL BE REQUESTED, SUBMITTED AND APPROVED IN WRITING BEFORE COMMENCING THE WORK.
- COORDINATE ALL TELEPHONE AND DATA (LAN/WAN) INSTALLATION AND CONNECTION REQUIREMENTS WITH THE OWNERS IT DEPARTMENT REPRESENTATIVE AND THE GENERAL CONTRACTOR.
- THE CONTRACTOR SHALL UNDERTAKE THIS WORK IN ITS ENTIRETY IN ACCORDANCE WITH ITS DESIGN AND PURPOSE. ALL WORK SHALL BE CARRIED OUT IN A PROFESSIONAL MANNER WITH MAXIMUM EFFICIENCY AND EXCELLENT WORKMANSHIP.
- THE CONTRACTOR SHALL INCLUDE ANY COORDINATION, RELAYS, TIMERS, NETWORK CARDS, TERMINAL STRIPS, ETC., REQUIRED FOR A COMPLETELY FUNCTIONAL INTERFACE WITH ELEVATOR CONTROLLERS, FIRE ALARM SYSTEMS, DOOR HARDWARE AND AUTOMATIC DOOR OPERATORS, WHICH EVER IS APPLICABLE.
- ALL EXIT DOORS TO REMAIN FREE OPENING IN EXIT DIRECTION. U. O. N.
- IN THE EVENT OF A DISCREPANCY BETWEEN THE SPECIFICATIONS AND THE DRAWINGS, WHICHEVER IS MORE STRINGENT OR CALLS FOR THE HIGHEST QUANTITY OR QUALITY OF MATERIALS HAS PRECEDENCE.
- THE USE OF THE WORD "PROVIDE" IN CONNECTION WITH ANY ITEM SPECIFIED, IS INTENDED TO MEAN THAT SUCH SHALL BE FURNISHED, INSTALLED AND CONNECTED, WHERE SO REQUIRED, EXCEPT AS NOTED OTHERWISE.
- PRIOR TO SUBMITTAL OF BID, NOTIFY, IN WRITING, SPECIFIED MATERIALS OR EQUIPMENT WHICH ARE EITHER UNAVAILABLE OR WILL CAUSE A DELAY IN CONSTRUCTION COMPLETION SCHEDULE.

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CONSULTANTS

PROJECT NAME

**12TH AND I  
OFFICE BUILDING  
STANISLAUS COUNTY**

**825 12TH STREET  
MODESTO, CALIFORNIA**

SHEET TITLE

**SECURITY ELECTRONICS  
COVER SHEET**

DRAWING STATUS

**SECURITY  
BID PACKAGE**

REVISIONS

Sym.	Description	By	Date

Drawn By	AK
Checked By	JS
Date Drawn	05-18-06
Scale	N.T.S.
Job No.	A06.028

SHEET No.

**SE0.01**

**PART I**  
**DRAWINGS & SPECIFICATIONS**

**Floor Plans have been removed from this agenda item  
but will be incorporated in the final agreement**

SECTION 16700  
SECURITY SYSTEMS

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Materials; equipment fabrication; installation including all raceways, conduit, and wiring; and tests in conformity with applicable Codes and authorities having jurisdiction for the following Building Security Electronic Systems:
  - 1. Optical Turnstiles, Closed Circuit Television (CCTV) System, Emergency Telephones and Alarm Monitoring System
- B. The Building Security Electronic Systems Contractor shall be responsible for coordinating the installation of all building control systems specified in referenced Sections. Building Security Electronic Systems Contractor shall meet the following minimum qualifications:
  - 1. Possess all applicable Contractor's licenses.
  - 2. Provide with bid a list of five locations in which the contractor has successfully installed similar systems by the same equipment manufacturers. Include location, date of installation, person to contact, and telephone number for each referenced project.
- C. Provide a complete working installation of all systems with all equipment called for in proper operating condition. Documents do not undertake to show or list every item to be provided. When an item not shown or listed is clearly necessary for proper installation and operation of the equipment and systems provide, install and test/certify the item at no increase in contract price.
- D. This Specification contains a combination of prescriptive and performance requirements. The contractor is responsible for fully implementing the functions described in the Specifications and shown on the Drawings. This will require the contractor to perform substantial work selecting system components, integrating system functions, and integrating the various security systems with each other and with equipment provided and installed by other Sections.

1.02 BUILDING SECURITY ELECTRONIC SYSTEMS OPERATIONAL DESCRIPTION

- A. Optical Turnstiles, Closed Circuit Television System, Emergency Telephones and Alarm Monitoring System
  - 1. Furnish and install complete Optical Turnstiles as shown on project documents. Provide install and coordinate all required interfaces with the access control system card readers, custom control panel, and building's elevators.
  - 2. Provide and install a complete CCTV system as shown on project documents. The CCTV system will include all labor, materials, CCTV cameras, power supplies, and Digital Video Recorders (DVRs). Connect all DVRs to the Owners network to provide automatic camera call-up upon activation of any emergency telephone or access control system event. Provide drawing showing all camera views and obtain written sign off by Owner's representative prior to installation of equipment.



3. Provide and install a complete Intrusion Alarm system as shown on project documents. The intrusion alarm system will monitor motion detectors and help buttons shown on project drawings. The intrusion system will also be interfaced (receive inputs and provide outputs) with the access control system to monitor all security devices on the 6<sup>th</sup> floor and 10% spare points.
4. Provide and install all equipment racks, cabinets, console components, and raceway systems to support all equipment installed as part of the work. Provide all required coordination with Owner's IT department, Div. 16 contractor, console/cabinet contractor, and Owner for a completely functional security system installation. All equipment within racks, terminal cabinets, consoles, etc., shall be neatly wired and clearly identified as to type of equipment and system. Label identically each end of each cable, including splice points. Note locations of any splices on as-built Drawings.
5. Major system components shall be Gunnebo, Panasonic, Kalatel, Bosch, Winsted, or approved equal.

#### 1.03 SUBMITTALS

- A. For each Building Security Electronics System Section, submit the following to the Architect:
  1. Manufacturer's name, brand name, catalog references for all equipment supplied, indicating UL Listings, for all system components.
  2. Complete written sequence of operations for all functions of the system.
  3. Complete wiring diagrams for all components, including cable types and quantities, routings, floor plans indicating device locations, conduit sizes, riser diagrams, etc.
  4. Provide complete point-to-point and termination drawings.
  5. Dimensioned Drawings of all consoles, racks, control panels, and fabricated equipment showing locations of all major components. These Drawings shall be 1/4 scale at a minimum.
  6. Battery calculations for all batteries. Voltage-drop calculations for all lock circuits.
  7. Bill of materials.
  8. Service information, including address of nearest representative. Provide written approval from each manufacturer affirming that contractor is certified and approved for systems installation and service for all systems in this Section.
  9. Proposed training program, including name and qualifications of trainer(s), schedule of training, curricula, and written training materials.
  10. Provide dimensioned elevation and mounting details for all equipment/devices.
- B. Submittals must be complete. All Security System submittals shall be in a similar format for ease of review. Owner reserves the right to reject any submittals determined to be incomplete.

- C. Provide proposed project implementation schedule that reflects anticipated durations and milestones. As a minimum the schedule shall include milestones for submittals, rough-in, device/equipment mounting, terminations, programming, testing, and training. Include milestones that show when work (door hardware, fire alarm, network, phone lines, etc) by other trades must be complete.
- D. The contractor is responsible for obtaining written approval of submittals prior to proceeding with work. The Owners designated representative will review one submittal and one corrected resubmittal. Time required by the Owners designated representative to review additional resubmittals will be charged on a Time and Material (T&M) basis.

#### 1.04 SUBSTITUTIONS

- A. All materials and equipment shall conform to these specifications. No substitute materials may be used, unless previously accepted in writing by the Architect.
- B. Manufacturers listed as acceptable are normally engaged in the type of work specified. The listing of equipment part numbers or particular types of systems by specific manufacturers is to establish the performance quality, type, and parameters of the equipment and material specified. The equipment shall be as specified or equal products.

#### 1.05 RELATED SECTIONS

- A. Conduit and wiring for 120VAC operating power to control panel and security equipment locations, Electrical Work, Division 16. Connect all security equipment to emergency generator power.
- B. Coordination of door and lock hardware.
- C. Conduit, wire, and cable installations performed under this division shall comply with the requirements of Section 16000 and other relevant Division 16 Sections.
- D. Security systems will communicate using the Local Area Network. Close coordination is required with the installer of data cabling and other network services. Contractor shall provide at least 30 days notice to the Owner of the date that LAN functionality is required.
- E. Coordination with elevator control contractor.
- F. Coordination with telephone contractor.

#### 1.06 REFERENCES

- A. Published specifications, standards, tests, codes, or recommended standards of trade, industry, or governmental organizations apply to work in these Sections, including:

- ADA - Americans with Disabilities Act
- ASCII - American Standard Code for Information Interchange
- ASTM - American Society for Testing and Materials
- EIA - Electronic Industry Association
- NEMA - National Electrical Manufacturers' Association
- NFPA - National Fire Protection Association

NEC - National Electrical Code  
UL - Underwriters Laboratories, Inc.

- B. Electronic devices radiating "RF" energy shall comply with Federal Communication Commission regulations, particularly Part 15, and shall meet minimum Class "B". Provide FCC certificate numbers indicating that products have been approved by the FCC.

1.07 QUALITY ASSURANCE:

- A. All equipment supplied shall be listed by a nationally recognized test laboratory where applicable.
- B. All equipment and accessories to be the product of a manufacturer regularly engaged in its manufacture.
- C. All items of a given type shall be the products of the same manufacturer.
- D. All items shall be of the latest technology; no discontinued models or products are acceptable.
- E. The manufacturer, or their Authorized Representative, shall confirm that within 100 miles of the project site there at least two established agencies which:
  - 1. Stocks a full compliment of parts
  - 2. Offers service during normal working hours as well as emergency service on all equipment to be furnished
  - 3. Will supply parts and service without delay and at reasonable cost.
  - 4. Contractor shall be capable of performing service or maintenance work on these specified or accepted systems. Contractor shall be factory-certified where such certification is available.

1.08 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Ship equipment in original packages to prevent damage or entry of foreign matter. All handling shall be in accordance with manufacturers' recommendations. Provide protective covering during construction.
- B. Replace, at no expense to Owner, equipment and material damaged during storage and installation as directed by the Architect.
- C. Products delivered to the job site in racks and consoles shall be protected from dust, dirt, and foreign matter. All racks and consoles shall be protected from dents, bumps, and scratching.

1.09 WARRANTY

- A. Installation, equipment, and all parts and labor are guaranteed by Contractor and manufacturer for two years from written notification of acceptance by the Owner.

- B. The installing Contractor shall provide, upon notification of a problem, a field service technician to correct the problem within 4 hours of notification.
- C. At least 60 days prior to expiration of guarantee, provide maintenance contract proposals for a third year of service for each system to Owner.
- D. Warranty shall be extended as described in 3.5 D, below.

## PART 2 PRODUCTS

### 2.01 SECURITY SYSTEM PRODUCTS

#### A. Optical Turnstiles

1. Optical Turnstiles shall be custom-manufactured and installed in custom-fabricated enclosures. Refer to Security drawings for installation details. Provide two bi-directional lanes to permit travel in both directions, electronically controllable.
2. Sequence of Operation: A card is presented to the card reader installed at each lane entry. If authorized, the top green light graphic will point in the direction authorized and chime will sound to tell the user they may pass. The user, when passing through the lanes, will pass infrared beams and reset the lane for the next person. If an unauthorized card is presented, the lanes will sound an alarm. If someone tries to pass through the lanes without presenting a card or tailgating, an infrared beam will be tripped that will cause an alarm. Transmit the alarm signal to the elevator controller to prevent passenger elevator cabs from leaving the ground floor until the system is reset.
3. Install system electronic equipment within enclosures. Provide complete with optional Status Lights and Lane Lights for each lane, and in each direction. Provide custom mounting for card readers.
4. Provide a custom-fabricated remote control panel mounted as shown on drawings.
5. Coordinate work with elevator and access control systems.
6. Optical Turnstiles shall be Gunnebo-Omega Optistile300FL36 and NL36 with custom fabrication.

#### B. Closed Circuit Television (CCTV) System

1. Provide a complete Closed Circuit Television Surveillance System as shown on Drawings.
2. Complete systems are defined as all cables, backboxes, color CCD cameras, monitors, digital video recorders, networking equipment, etc. needed to achieve a complete and functional system. Also included are all required power supplies, UPS's, power filtering, mounts, housings, and interfaces to equipment furnished by others.
3. Allow adequate space in cable trays, wiring gutters, control racks and cabinets, etc. to accommodate wiring and hardware for future cameras.

4. Coordinate with supplier of Emergency Phones and Owner's IT Contractor. Interface is required between the access control system and CCTV system to provide camera call-up upon emergency phone usage.
  5. Provide 24VAC from one single phase of incoming power for all CCTV cameras. This 24VAC shall be conditioned and protected from surges, line spikes, and "brownouts".
  6. Connect CCTV equipment to new Digital Video Recorders in equipment racks as shown on drawings.
  7. Digital Video Recorders (DVRs) shall store on an internal hard drive video images from 16 cameras for a minimum of 30 days at a frame rate of not less than 4 frames per second. DVRs will be Kalatel, model DVMRE-PRO 16320DVD or approved equal.
  8. Connect to the Owner's Local Area Network to monitor video.
  9. Install CCTV monitoring software on a minimum of 2 PC workstations furnished by the owner.
  10. Provide hardware or software interface between the Access Control and Emergency Telephones and the CCTV recorder. An alarm event in an area monitored by a camera shall automatically call-up the appropriate camera view, in real-time and pre-alarm windows, for display on active CCTV workstations. Program video motion detection for automatically display cameras at times and locations as directed by the Owner.
  11. Provide analog CCTV monitor and loop-thru quad unit, desk-mounted at locations shown on drawings. Monitors shall be high-resolution color monitors, 13", with loop-thru video. The CCTV monitor will be a Panasonic, model WV-CK1420A and the quad unit will be a Panasonic, model WJ-MS424 or approved equal.
  12. Cameras shall be high-resolution color cameras with appropriate enclosures and mounts. Provide with variable focal length, auto-aperture lenses. Camera housings shall be weatherproof and vandal-resistant. Size all power supplies to permit simultaneous continuous-duty activation of sixteen cameras.
  13. Parking Garage CCTV Cameras shall be Panasonic Model # WV-CW474AS or approved equal.
  14. Office Building CCTV Cameras shall be Panasonic Model # WV-CW4244F or approved equal.
  15. Provide 24VAC CCTV individually fused Camera power supplies (Altronix model # R2416300UL or approved equal) at central location as shown on drawings. Size all power supplies to permit simultaneous continuous-duty activation of sixteen cameras
- C. Emergency Telephone System
1. At each location shown on the Electrical Drawings, furnish and install a vandal-resistant ADA-compliant, hands-free Emergency Telephone station.

2. Stations shall be self-contained, have a single call pushbutton, and provide handsfree two-way communication.
3. Emergency Telephone stations shall be Talk-A-Phone Model ETP-400. Provide with line filter and bezel back box for flush mounting to wall stations.
4. Provide wall unit with Blue light/strobe at each wall-mounted emergency stations. ETP-400 stations shall flush-mount in wall stations. Wall stations shall be Talk-A-Phone model ETP-WM with 120VAC blue light/strobe mounted on top.
5. Each Emergency Telephone unit will be wired to the Owner's phone switch to allow identification of any individual calling location.
6. Coordinate and program primary and secondary call calling numbers for each unit.

D. Intrusion Alarm System

1. Provide independent alarm control panel including coordination and programming of phone connection to private central monitoring center.
2. Provide digital dialer programmed to contact the private central monitoring station of the Owner's choice.
3. Provide panel with sufficient input points to ensure a minimum of 10% spare input points.
4. Coordinate telephone line connection and location with phone system provider.
5. Security Control Panel shall be Bosch Model D9412G with D1255 Command Center keypad for system programming or approved equal.
6. Panel shall contain D8125 POPEX's.
7. Provide dual phone line switcher (D928), dual battery harness (D122), fire enclosure (D8109) with lockset & key, and transformer in a secure enclosure.
8. Remote 8-point input expanders shall be D8128D OctoPopits.
9. Remote 8-point output expanders shall be D8129 Octo-Relays.
10. Provide sufficient input points to monitor all security devices on 6<sup>th</sup> floor plus 1<sup>st</sup> floor help button transmitted from the access control system output boards.
11. Provide sufficient output points to allow all 6<sup>th</sup> floor intrusion alarm system points to be transmitted to the access control system.
12. The security contractor shall provide all coordination with Owner designated central alarm monitoring station, programming of alarm panel including numbers, names, schedules, etc., testing of completely functional operation, and training of Owner's

E. Door Position Sensors

1. Door positions sensors shall be Sentrol 1078 where concealed. Furnish and install alarm contacts where not provided by hardware contractor.
2. Contacts for roll-down door shall be Sentrol 2600T series, with mounting accessories as required.

F. Help Button

1. Help Button shall be mounted under the security reception counter/desks.
2. Mount with activation button at back of switch to avoid accidental activation.
3. Wire and program so that any activation of any help button will alarm on the access control system and intrusion alarm system.
4. Help Buttons shall be double pole/double throw contacts and require a key to reset. These buttons shall be Amseco model Husk-10 or approved equal.

G. Ceiling Motion Detectors

1. Ceiling-mounted Motion Detectors shall be Bosch Radionics ZX938Z zonex compatible or approved equal with POPIT.
2. Install POPIT behind each Detector for point identification if not using zonex compatible detector.
3. Use 4" octagon 2 1/8" deep rough-in boxes with bar hanger for detectors being installed on ceiling tiles.

H. Uninterruptible Power Supply (UPS)

1. Furnish and install a UPS for the Access Control system server and Digital Video Recorder(s).
2. Provide a minimum of 20 minutes of backup time for all connected devices.
2. UPS shall be Triplite Model SmartOnline SU3000RT2U or approved equal with internal batteries, rack-mounted.

PART 3 EXECUTION

3.01 REQUIREMENTS

- A. Systems shall be complete and operational in all respects.

- B. Contractor shall furnish and install all conduit, raceways, cable trays, conductors, etc. for all building Security Systems. All wiring shall be in conduit or approved raceway unless shown otherwise on the Drawings. Conduit is required above "hard" ceilings or other inaccessible areas. Conduit is required for connection between reader controllers and elevator controllers.
- C. Wiring and conduit shown on Drawings represents a minimum requirement. Contractor shall furnish and install all wiring and conduit recommended by submitted system manufacturers' for optimum system performance at no additional cost to the Owner.
- D. Connect power to Security Systems as required.
- E. All security equipment, junction boxes, terminal cans, etc. shall be installed utilizing tamper proof mounting hardware. Provide a minimum of 2 driver bits or hand tools for each type of security fastener provided.
- F. Provide seismic restraint for all equipment, including equipment racks, consoles, etc.
- G. Connect system to Owner's LAN. Furnish and install temporary network hubs and/or cross-connection in order to install and troubleshoot the security systems in compliance with the project schedule. This temporary network service shall be established at least 60 days before "final acceptance" of the project.

### 3.02 AS-BUILT DRAWINGS

- A. Maintain a complete set of prints of contract Drawings of the work forming a part of the Security Systems. As work is installed, carefully draw on prints, in colored pencil, correct location of work including depth of underground runs, if any, with dimensions from permanent walls, walks, etc. Wiring diagrams and details shall be included.
- B. Upon completion of the project, transfer this information to reproducible Drawings and updated CAD disks, and submit to the Architect and Owner.
- C. As-built Drawings shall be provided in 4 sets, as well as one set of CAD disks, to the Architect. One additional complete set shall remain on the job site in folders secured inside the electronic racks. Provide As-Built drawings files in AutoCAD 2000 format.

### 3.03 TRAINING

- A. The contractor shall provide a minimum of eight copies of Operation and Maintenance manuals for all equipment furnished under the Security Systems sub-sections.
- B. As a part of this contract, provide training as described herein and detailed under each System sub-section.
- C. Training shall be by engineers or technicians highly skilled in the systems and certified by manufacturer as qualified to train in the particular systems.
- D. Training shall be conducted at dates and times directed by the Owner's representative. Initial training shall be provided for the security director and consultant. Upon their approval, a second training session shall be provided for security officers. An additional training session for officers shall be provided within the first year after system acceptance. Provide specific



training sessions for Owner's maintenance personnel. After-hours training shall be provided at no additional cost if requested by the Owner. Provide a minimum of 24 hours of training as part of this contract.

- E. Verification of completion of training is required by the Owner prior to release of retention compensation.

### 3.04 PROGRAMMING

- A. Contractor shall provide initial programming for all applicable systems. Contractor programming shall include, but not be limited to:
  - 1. English-language description of each alarm point, emergency telephone location, and camera location.
  - 2. Camera locations and numbers for display on CCTV monitors and workstations.
  - 3. Intrusion Alarm point and zone descriptions including three unique arm and disarm codes.
- B. Submit to the Architect for Owner's review proposed programming, including device names and descriptions, timings, sequence of operations, etc.
- C. Upon Owner's request, each system shall be reprogrammed by the Contractor one time during the warranty period at no additional cost.

### 3.05 TESTS AND REPORTS

- A. Perform systems tests using personnel who have attended a manufacturer's training school for installation and testing of the systems as described above. Perform testing with the test instruments as required by the manufacturer; testing by means other than the manufacturer's procedures will not be acceptable unless agreed to by the Owner, Owner's designated representative, and manufacturer.
- B. Upon completion of the installation of the Security Systems, the contractor shall submit reports including, but not limited to, the following information:
  - 1. A complete list of all equipment installed, including serial numbers of major components.
  - 2. Certification that all equipment is properly installed and functional, and conforms with contract Specifications and Drawings.
  - 3. Test reports of all zones, devices, and equipment.
  - 4. Test technician's name, company, and date of test.

- C. Following review of the test report by the Owner's designated representative, the contractor shall perform a test of all Security System equipment in the presence of the Owner and Owner's designated representative. Test shall include performance tests of each device, switch, control unit, power supply, battery standby unit, monitor panel, controller, printer, and all other equipment and material required by the contract.
- At a minimum, perform tests to demonstrate that:
1. All systems are free from grounding and open circuits.
  2. Each alarm-initiating device consistently functions as specified and produces the specified alarm actions. Each camera shall be positioned by the contractor to provide the coverage of the protected area in accordance with the capabilities of the device.
  3. An abnormal condition of any circuit or device required to be electrically supervised will result in activating the specified trouble or tamper alarm signal.
  4. Systems operate properly on emergency generator power.
  5. Alarm signals are audible at the monitor.
  6. The system is operable under specified trouble conditions.
  7. All software functions properly as specified, and all equipment is fully programmed. The contractor shall be responsible for programming system English-language descriptors as specified by the Owner's representative.
  8. System as-built Drawings correspond with actual installation.
- D. The contractor is responsible for obtaining written approval of acceptance of a fully functional system. If retesting is required due to contractor equipment failure, incorrect programming, omission, error, etc., the contractor shall compensate the Owner for all costs associated with retesting.
- E. Sixty days prior to expiration of warranty, Contractor shall retest all systems as described above, and submit a test report of findings. Testing shall be scheduled at a time acceptable to the Owner. All items covered by warranty shall be corrected immediately. Warranty remains in effect until 100% of defective items are corrected by the Contractor.

END OF SECTION

DEVICE AND WIRING LEGEND ACCESS CONTROL					
SYMBOL	DESCRIPTION	MOUNTING HEIGHT	BACK BOX	WIRING	NOTES
ACP	ACCESS CONTROL PANEL	SEE DETAILS	SEE DETAILS	1 120VAC EMERGENCY 20AMP CIRCUIT 1 LAN/WAN DROP	
CRH	CRH CARD READER, PROXIMITY TYPE	READER - +42" A.F.F. TO CENTER ALARM CONTACT IN DOOR FRAME	4S W/ SINGLE GANG RING	1-#18/2 SHIELDED PLENUM (DATA) 1-#18/4 PLENUM (POWER, LED)	A
	A CONCEALED MAGNETIC ALARM CONTACT	N/A	N/A	1-#18/2 SHIELDED PLENUM PER CONTACT	C
	EL ELECTRIC LOCK	N/A	N/A	1-#18/2 PLENUM	B
	REX REQUEST TO EXIT	IN DOOR	N/A	1-#18/2 SHIELDED PLENUM (REX CONTACT) 1-#18/2 PLENUM (REX POWER)	
KPH	KEYPAD	READER - +42" A.F.F. TO CENTER ALARM CONTACT IN DOOR FRAME	4S W/ SINGLE GANG RING	1-#18/2 SHIELDED PLENUM (DATA) 1-#18/4 PLENUM (POWER, LED)	
EDR	EMERGENCY DOOR RELEASE	SEE DETAILS	SEE DETAILS	1 120VAC EMERGENCY 20AMP CIRCUIT 1 LAN/WAN DROP	

DEVICE AND WIRING LEGEND CCTV					
SYMBOL	DESCRIPTION	MOUNTING HEIGHT	BACK BOX	WIRING	NOTES
DVR	DIGITAL VIDEO RECORDER	SEE DETAILS	SEE DETAILS	SEE DETAILS	
K	CLOSED CIRCUIT TELEVISION FIXED CAMERA WITH PROPER VARIOFICAL AUTO-IRIS LENS AND ENCLOSURE	SEE SCHEDULE	CUSTOM	RG59U COAX PLENUM 1-#18/2 PLENUM (CAMERA POWER)	D
M	MONITOR (DESK MOUNT)	DESK TOP MOUNT	N/A	120 VAC RG59U COAX PLENUM	
QUAD	CCTV QUAD UNIT	N/A	N/A	N/A	

DEVICE AND WIRING LEGEND SECURITY					
SYMBOL	DESCRIPTION	MOUNTING HEIGHT	BACK BOX	WIRING	NOTES
IAP	INTRUSION ALARM PANEL	SEE DRAWINGS	N/A	N/A	
A	CONCEALED MAGNETIC ALARM CONTACT OR GATE ALARM CONTACT (SP/ST)	N/A	N/A	1-#18/2 SHIELDED PLENUM PER CONTACT	C
MD	MOTION DETECTOR (360°)	CEILING MOUNT	OUTLET BOX	1-#18/2 SHIELDED PLENUM (CONTACT) 1-#18/2 PLENUM (POWER)	
HB	HELP BUTTON (DESK MOUNTED)	IN CASEWORK	N/A	1-#18/4 PLENUM	
EPH	EMERGENCY PHONE WITH STROBE LIGHT	WALL MOUNT	SEE DETAIL	1-#18/2 (POWER) 1-CATS (TO PHONE DESK)	
O	TURNSTILE CONTROL PANEL	DESKTOP	N/A	CUSTOM	
LA	LA LOCAL ALARM	+48" A.F.F. TO CENTER	THREE-GANG DEEP SWITCH BOX	1-#18/2 SHIELDED PLENUM (CONTACT ALARM) 1-#18/2 PLENUM (POWER) 1-#18/2 SHIELDED PLENUM (KEY BYPASS STATUS) 1-#18/2 PLENUM (SPARE TO ACCESS CONTROL)	
	A CONCEALED MAGNETIC ALARM CONTACT	N/A	N/A	1-#18/2 SHIELDED PLENUM (OR CONTACT TO LA)	C

DEVICE AND WIRING LEGEND MISCELLANEOUS					
SYMBOL	DESCRIPTION	MOUNTING HEIGHT	BACK BOX	WIRING	NOTES
J	JUNCTION BOX	SEE DRAWINGS	SEE DRAWINGS	SEE DRAWINGS	
LAN	LAN/WAN CONNECTION	SEE DRAWINGS	SEE DRAWINGS	1 CAT 5E	
TEL	TELCO CONNECTION	SEE DRAWINGS	SEE DRAWINGS	1 CAT 3	
120VAC	120VAC - 1-20 AMP CIRCUIT	SEE DRAWINGS	SEE DRAWINGS	SEE DRAWINGS	
WS	COMPUTER WORK STATION	N/A	N/A	SEE DRAWINGS	

DEVICE AND WIRING LEGEND NOTES:  
 1 CARD READER AND LOCAL ALARM SYMBOL ON FLOOR PLAN DRAWINGS INCLUDES ALL ASSOCIATED DEVICES (AS SHOWN IN BRACKETS ABOVE).

SECURITY DRAWING SCHEDULE		
SEC.01	SECURITY ELECTRONICS	COVER SHEET
SEC.02	SECURITY ELECTRONICS	FIRST FLOOR PLAN
SEC.03	SECURITY ELECTRONICS	SECOND FLOOR PLAN
SEC.04	SECURITY ELECTRONICS	THIRD FLOOR PLAN
SEC.05	SECURITY ELECTRONICS	FOURTH FLOOR PLAN
SEC.06	SECURITY ELECTRONICS	FIFTH FLOOR PLAN
SEC.07	SECURITY ELECTRONICS	SIXTH FLOOR PLAN
SEC.08	SECURITY ELECTRONICS	RISER DIAGRAM
SEC.09	SECURITY ELECTRONICS	DETAILS SHEET
SEC.10	SECURITY ELECTRONICS	DETAILS SHEET
SEC.11	SECURITY ELECTRONICS	DETAILS SHEET
SEC.12	SECURITY ELECTRONICS	DETAILS SHEET

DEVICE LEGEND NOTES	
A.	FURNISH AND INSTALL LOCK POWER SUPPLIES FOR ALL DOORS EQUIPPED WITH ELECTRIC LOCKS, EXCEPT AS FOLLOWS:  IF POWER SUPPLY IS SPECIFIED IN HARDWARE GROUP, POWER SUPPLY SHALL BE FURNISHED BY HARDWARE CONTRACTOR, AND INSTALLED & POWERED BY DIVISION 16. SECURITY CONTRACTOR TO PROVIDE AND INSTALL ALL LOW VOLTAGE WIRING, TERMINATIONS, AND INTERFACE TO ACCESS CONTROL SYSTEM.
B.	ALL EXIT DOORS TO REMAIN FREE OPENING FROM EXIT SIDE.
C.	ON DOUBLE DOORS INSTALL TWO (2) CONTACTS, SERIES THE CIRCUIT AT THE DOORS AND RUN ONE CABLE TO HEAD-END.
D.	CAMERAS WITH HEATERS AND/OR BLOWERS REQUIRE ONE ADDITIONAL 18/2 PLE CABLE.
E.	ALL CABLES TO BE PLENUM RATED.

ABBREVIATIONS	
A.F.F. - ABOVE FINISHED FLOOR	U.O.N. - UNLESS OTHERWISE NOTED
T.B.D. - TO BE DETERMINED	F.O.V. - FIELD OF VIEW
N/A - NOT APPLICABLE	A.C.P. - ACCESS CONTROL PANEL
SH - SHIELDED	I.A.P. - INTRUSION ALARM PANEL
TW - TWISTED	V.I.F. - VEREY IN FIELD
WP - WEATHER PROOF	E - EXISTING
S.O.C. - SECURITY OPERATIONS CENTER	N - NEW
RECP - RECEPTION	

SCOPE OF WORK	
1.	SECURITY CONTRACTOR SHALL PROVIDE, INSTALL AND PROGRAM A COMPLETELY FUNCTIONAL AND OPERATIONAL SYSTEM AS SHOWN ON DRAWINGS AND SPECIFICATIONS.
2.	THE SECURITY CONTRACTOR SHALL PROVIDE A PHASED INSTALLATION OF THE ELECTRONIC SECURITY BASED ON THE OWNER AND GENERAL CONTRACTOR'S SCHEDULE.
3.	SECURITY CONTRACTOR SHALL PROVIDE AND INSTALL ALL CONDUIT, WIRING, DEVICES, CONNECTIONS, PROGRAMMING, AND COORDINATION REQUIRED FOR A COMPLETELY FUNCTIONAL AND OPERATIONAL SYSTEM. SECURITY CONTRACTOR SHALL PROVIDE ANY CUSTOM BACKBOXES REQUIRED.
4.	PROVIDE AND INSTALL ALL CONDUIT, BACK BOXES, PULL BOXES AS SHOWN ON DRAWINGS.
5.	PROVIDE AND INSTALL FIRE ALARM SYSTEM INTERFACES WHERE REQUIRED.
6.	INCLUDE FINAL CONNECTION, PROGRAMMING, TRAINING, AND TESTING OF THE WORK TO THE HEAD-END EQUIPMENT.
7.	ATTENDANCE AT WEEKLY CONSTRUCTION COORDINATION MEETINGS.
8.	COORDINATION OF WORK WITH OTHER DESIGN AND INSTALLATION TRADES.
9.	SUBMITTAL OF PERMIT DRAWINGS AND OBTAINING ALL REQUIRED PERMITS, INSPECTIONS AND APPROVALS FROM THE AUTHORITIES HAVING JURISDICTION.
10.	THE OWNER WILL PROVIDE APPROPRIATE NETWORK CONNECTIONS AND TELEPHONE JACKS AT LOCATIONS TO BE IDENTIFIED BY THE SECURITY CONTRACTOR, AND AS SHOWN ON THE DRAWINGS. THE OWNER WILL ALSO PROVIDE PC'S FOR WORKSTATIONS AND OTHER CONVENTIONAL COMPUTER EQUIPMENT REQUIRED FOR THE ACCESS CONTROL AND CCTV SYSTEMS. THE SECURITY CONTRACTOR SHALL PROVIDE EQUIPMENT SPECIFICATIONS, AND BE RESPONSIBLE FOR PROVIDING AND INSTALLING NECESSARY SOFTWARE AND FOR CONFIGURATION OF THE EQUIPMENT.

INSTALLATION NOTES	
1.	ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND ALL APPLICABLE LOCAL CODES. THE CONTRACTOR SHALL NOT INTERMIX ANY HIGH VOLTAGE POWER WIRES (120VAC) WITH ANY LOW VOLTAGE SIGNAL OR CONTROL WIRES IN ANY CONDUIT.
2.	VERIFY ALL FIELD DIMENSIONS AND CONDITIONS. NOTIFY ARCHITECT OF ANY DISCREPANCIES FOUND. VERIFY DIMENSIONS OF ALL OWNER FURNISHED EQUIPMENT & SERVICES TO ENSURE PROPER COORDINATION WITH CONSTRUCTION.
3.	SCHEDULE ALL WORK, INCLUDING CONSTRUCTION ACCESS AND STORAGE, WITH THE OWNER OR THOSE DESIGNATED BY THE OWNER. THE CONSTRUCTION SCHEDULE SHALL BE APPROVED BY THE OWNER PRIOR TO THE START OF CONSTRUCTION.
4.	ALL UTILITIES REQUIRED FOR THE CONTINUOUS OPERATION OF ALL EXISTING FACILITIES MUST BE MAINTAINED IN SERVICE AT ALL TIMES (IF APPLICABLE).
5.	CONTRACTOR SHALL PROVIDE DUST PROTECTION AS REQUIRED TO CONTAIN DUST AND DEBRIS WITHIN CONSTRUCTION AREA, BROOM CLEAN ALL AREAS EACH DAY.
6.	COORDINATE WITH THE OWNER TO DETERMINE IF REMOVED ITEMS (IF APPLICABLE) WILL BE KEPT BY THE OWNER. COORDINATE A STORAGE LOCATION AND DELIVER AS DIRECTED BY THE OWNER. DISPOSAL OF OLD EQUIPMENT SHALL BE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL LAWS.
7.	WORK SHALL BE EXECUTED IN A CAREFUL AND ORDERLY MANNER WITH THE LEAST POSSIBLE DISTURBANCE TO THE PUBLIC AND OCCUPANTS OF EXISTING BUILDINGS. INTERRUPTING PERSONNEL AT WORK AS A RESULT OF THIS UNDERWORKING SHALL ALWAYS BE KEPT TO A MINIMUM. CONTRACTOR SHALL PROVIDE TRAFFIC AND SAFETY SIGNS AND BARRIERS WHERE NECESSARY. NO POWER LINE IN THE BUILDING SHALL BE SHUT DOWN UNLESS REQUESTED AND APPROVED BY THE OWNER IN ADVANCE.
8.	THE CONTRACTORS AND SUBCONTRACTORS PERFORMING WORK ON PREMISES SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING A PROPER SAFETY PROGRAM INCLUDING, BUT NOT LIMITED TO, THE ISOLATION OF WORK AREAS AND THE PROMPT REMOVAL OF ANY DEBRIS OR TOOLS WHICH MIGHT ENDANGER VISITORS OR EMPLOYEES OF THE FACILITY. ALL ROADS AND WALKWAYS SHALL REMAIN CLEAR AND UNOBSTRUCTED. WHEN NECESSARY ALTERNATE ROUTES MUST BE MAINTAINED, SHOULD UNSAFE CONDITIONS OCCUR.
9.	COORDINATION WITH OTHER CONTRACTORS: IF ANY PART OF THE CONTRACTOR'S WORK DEPENDS UPON THE WORK OF A SEPARATE CONTRACTOR, THIS CONTRACTOR SHALL INSPECT SUCH OTHER WORK AND PROMPTLY REPORT IN WRITING TO THE PROJECT ARCHITECT ANY DEFECTS IN SUCH OTHER WORK THAT RENDER IT UNSUITABLE TO RECEIVE THE WORK OF THIS CONTRACTOR, FAILURE TO INSPECT AND REPORT SHALL CONSTITUTE AN ACCEPTANCE OF THE OTHER CONTRACTOR'S WORK EXCEPT AS TO DEFECTS WHICH DEVELOP IN OTHER CONTRACTOR'S WORK AFTER EXECUTION OF THIS CONTRACTOR'S WORK.
10.	THE CONTRACTOR SHALL ALWAYS MAINTAIN, AT THE JOB SITE, UPDATED "RECORD" DRAWINGS. THESE DRAWINGS SHALL BE AVAILABLE TO THE ARCHITECTS, INSPECTORS OR THE OWNERS UPON REQUEST.
11.	NO CABLE RUN SHALL BE SPLICED UNLESS TWO OR MORE DEVICES ARE CONNECTED TO THE SAME CIRCUIT OR THE DEVICE IS PROVIDED FROM THE FACTORY WITH PIGTAIL WIRES. WHERE SPLICING IS REQUIRED, THE SPLICE SHALL BE SOLDERED AND TAPED, IT SHALL BE DONE IN EITHER A SPECIAL TERMINAL BOX, AT THE BACK BOX OR AT THE DEVICE TERMINAL LUGS. ALL SPLICE BOXES MUST BE IN ACCESSIBLE AREAS AND CLEARLY MARKED ON THE RECORD DRAWINGS.
12.	ALL WIRES SHALL BE COLOR CODED AND SHALL BE CONNECTED IN A UNIFORM MANNER. TRANSPOSING OR CHANGING OF COLOR CODES SHALL NOT BE PERMITTED. WIRE AND CABLE SIZES, NUMBER OF CONDUCTORS, SHIELDING OR OTHER ITEMS LISTED ON THESE DRAWINGS ARE A GUIDE TO THE CORRECT PRODUCT REQUIRED TO ACHIEVE A WORKING SYSTEM AND REPRESENT THE MINIMUM ACCEPTABLE STANDARDS. CONTRACTOR SHALL CONSULT MANUFACTURER'S RECOMMENDATION FOR CABLE AND USE WHICHEVER IS GREATER IN QUALITY, GAUGE, SHIELDING AND NUMBER OF CONDUCTORS.
13.	ALL WIRING, INCLUDING SHIELDS, MUST BE FREE OF SHORTS, GROUNDS AND STRAY VOLTAGES. ALL RATED FOR WET APPLICATIONS. ALL EXPOSED SURFACE MOUNTED CABLE UNDER 12' A.F.F. SHALL BE IN CONDUIT.
14.	INSTALL ALL SECURITY CABLING IN CONDUIT.
15.	A PRE PRINTED VINYL MATERIAL MARKER WRAPPED IN ADHESIVE CLEAR PLASTIC SHALL BE PROVIDED TO THE FOLLOWING:  A. CABLES WITHIN 6" UPON ENTRY AT ANY SECURITY PANEL, TERMINATION OR SPLICE BOX. B. ALL WIRE LEADS WITHIN 2" FROM ANY TERMINAL BLOCK. C. THE CONTRACTOR SHALL SUBMIT SAMPLES OF MARKERS AND ANY NUMBERING OR MARKING SYSTEM FOR REVIEW PRIOR TO IMPLEMENTATION.
16.	ALL ELECTRICAL POWER SUPPLIED TO SECURITY EQUIPMENT OR DEVICES SHALL BE ON AN EMERGENCY SYSTEM INCLUDING UPS WHERE AVAILABLE. ALL CONDUCTORS AND CIRCUIT BREAKERS SHALL BE SIZED IN ACCORDANCE WITH THEIR CONNECTED LOADS (20 AMP MINIMUM). ALL CIRCUITS SHALL BE DEDICATED. A GROUND CONDUCTOR SHALL ALWAYS BE INSTALLED IN ANY POWER WIRING. ALL SECURITY EQUIPMENT UTILIZING ELECTRICAL POWER SHALL ALSO BE ADEQUATELY GROUNDED.
17.	WHERE A CIRCUIT FOR SECURITY IS TAKEN FROM A LOAD CENTER UTILIZED FOR OTHER ELECTRICAL PURPOSES, THE BRANCH CIRCUIT BREAKER FOR SECURITY EQUIPMENT SHALL BE LOCKABLE TYPE TO PREVENT ANY ACCIDENTAL SWITCH-OFF. NO SECURITY CIRCUIT IS TO BE SHARED WITH NON SECURITY EQUIPMENT.
18.	THE CONTRACTOR SHALL PROPERLY SEAL ALL CONDUIT OR SLEEVE PENETRATIONS THROUGH ALL WALLS, FLOORS AND CEILING USING A PROVED FIRE STOPPING MATERIALS AND SEALANTS REGARDLESS OF RATING AND AS PER APPLICABLE BUILDING CODES.
19.	ALL ROUTING OF WIRING AND ANY RELATED CONDUIT IS DIAGRAMMATIC. CONTRACTOR SHALL FIELD VERIFY EXACT ROUTING PRIOR TO INSTALLATION.
20.	PROVIDE PULL STRINGS IN ALL CONDUITS. PROVIDE BLANK COVERS ON ALL JUNCTION AND PULL BOXES.
21.	ALL CONDUITS AND CABLE PATHS SHALL RUN PARALLEL WITH OR AT RIGHT ANGLES TO THE WALLS, IF MORE THAN THREE 90 DEGREE BENDS ARE TO BE USED IN THE CONDUIT RUN, INSERT A PULL BOX. CONTRACTOR SHALL SIZE THE BOX ACCORDINGLY. CONDUITS SHALL BE SIZED AS INDICATED ON THE DRAWINGS OR LARGER AS REQUIRED TO COMPLY WITH CODE. MINIMUM ALLOWABLE CONDUIT SIZE SHALL BE 3/4".
22.	THE CONTRACTOR SHALL CLEAN AND THOROUGHLY CHECK ALL INSTALLED WORK PRIOR TO CONCEALING OF ARCHITECTURAL FINISHING. CLEAN ALL EXPOSED SURFACES AND NEW EQUIPMENT AFTER COMPLETION. THE CONTRACTOR SHALL ALSO REPAIR OR CLEAN ALL SOILED SURFACES, PAINTED SURFACES OR DAMAGED ARCHITECTURAL FINISHES TO MATCH THE ADJACENT AREA. WHERE REQUIRED, CLEANING, PATCHING OR PAINTING TO BRING THE AFFECTED SURFACE OR FINISH BACK TO ITS ORIGINAL CONDITION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
23.	ALL SECURITY DEVICES AND EQUIPMENT SHALL BE INSTALLED WITH CONSIDERATION TO BARRIER FREE ACCESSIBILITY.
24.	WHERE CONCRETE FLOORS ARE TO BE CORED, AN X-RAY MACHINE SHALL BE USED TO INSURE THAT NO STRUCTURAL ELEMENTS (E.G. REBAR) WILL BE COMPROMISED OR DAMAGED.
25.	WHERE THE CONTRACTOR HAS TO CHANGE ANY DEVICE TYPE OR MOUNTING TO SUIT ACTUAL CONDITIONS, THIS SHALL BE DONE WITHOUT EXTRA COST TO THE OWNER. THIS INCLUDES ANY ADDITIONAL PART TO BE SUPPLIED BY THE CONTRACTOR TO ACCOMPLISH PROPER MOUNTING OF A DEVICE. HOWEVER, IT SHALL BE REQUESTED, SUBMITTED AND APPROVED IN WRITING BEFORE COMMENCING THE WORK.
26.	COORDINATE ALL TELEPHONE AND DATA (LAN/WAN) INSTALLATION AND CONNECTION REQUIREMENTS WITH THE OWNERS IT DEPARTMENT REPRESENTATIVE AND THE GENERAL CONTRACTOR.
27.	THE CONTRACTOR SHALL UNDERTAKE THIS WORK IN ITS ENTIRETY IN ACCORDANCE WITH ITS DESIGN AND PURPOSE. ALL WORK SHALL BE CARRIED OUT IN A PROFESSIONAL MANNER WITH MAXIMUM EFFICIENCY AND EXCELLENT WORKMANSHIP.
28.	THE CONTRACTOR SHALL INCLUDE ANY COORDINATION, RELAYS, TIMERS, NETWORK CARDS, TERMINAL STRIPS, ETC. REQUIRED FOR COMPLETELY FUNCTIONAL INTERFACE WITH ELEVATOR CONTROLLERS, FIRE ALARM SYSTEMS, DOOR HARDWARE AND AUTOMATIC DOOR OPERATORS, WHICH EVER IS APPLICABLE.
29.	ALL EXIT DOORS TO REMAIN FREE OPENING IN EXIT DIRECTION. U. O. N.
30.	IN THE EVENT OF A DISCREPANCY BETWEEN THE SPECIFICATIONS AND THE DRAWINGS, WHICHEVER IS MORE STRINGENT OR CALLS FOR THE HIGHEST QUANTITY OR QUALITY OF MATERIALS HAS PRECEDENCE.
31.	THE USE OF THE WORD "PROVIDE" IN CONNECTION WITH ANY ITEM SPECIFIED, IS INTENDED TO MEAN THAT SUCH SHALL BE FURNISHED, INSTALLED AND CONNECTED, WHERE SO REQUIRED, EXCEPT AS NOTED OTHERWISE.
32.	PRIOR TO SUBMITTAL OF BID, NOTIFY, IN WRITING, SPECIFIED MATERIALS OR EQUIPMENT WHICH ARE EITHER UNAVAILABLE OR WILL CAUSE A DELAY IN CONSTRUCTION COMPLETION SCHEDULE.

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**On Line**  
 CONSULTING SERVICES  
 SECURITY ELECTRONICS  
 200 17th Street, Suite 200, Oakland, CA 94612 | 510-238-8972

CONSULTANTS

PROJECT NAME

**12TH AND I  
 OFFICE BUILDING  
 STANISLAUS COUNTY**

**828 12TH STREET  
 MODESTO, CALIFORNIA**

SHEET TITLE

**SECURITY ELECTRONICS  
 COVER SHEET**

DRAWING STATUS

**SECURITY  
 BID PACKAGE**

REVISIONS

Sym.	Description	By	Date

Drawn By **AK**

Checked By **JB**

Date Drawn **05-18-06**

Scale **N.T.S.**

Job No. **A06.028**

SHEET No.

**SEC.01**



**GENERAL SERVICES AGENCY**

**Keith D. Boggs**  
Assistant Executive Officer  
GSA Director/Purchasing Agent

1010 10<sup>th</sup> Street, Suite 5400, Modesto, CA 95354

Phone: (209) 525-6319  
Fax: (209) 525-7787

**ADDENDUM NO. 1**  
**to**  
**BID 17-55-BD: SECURITY CAMERA UPGRADE AT STANCERA**

**To: All Prospective Bidders**

**September 20, 2017**

Prospective Proposers for the above-named solicitation are hereby notified of the following corrections, additions, clarifications, and/or questions and responses:

1. A scanned copy of the sign-in sheet from the Sept. 12 pre-bid meeting is attached.
2. The deadline for questions/RFI submittals has been postponed to:  
**5:00 PM October 3, 2017.**
3. The Bid Response Date for submitting a bid for this project has been postponed to:  
**2:30 PM October 17, 2017.**
4. Questions/RFI submittals will be addressed in subsequent Addenda.

---

**ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME**



**GENERAL SERVICES AGENCY**

**Keith D. Boggs**  
Assistant Executive Officer  
GSA Director/Purchasing Agent

1010 10<sup>th</sup> Street, Suite 5400, Modesto, CA 95354

Phone: (209) 525-6319  
Fax: (209) 525-7787

**ADDENDUM NO. 2**  
**to**  
**BID 17-55-BD: SECURITY CAMERA UPGRADE AT STANCERA**

**To: All Prospective Bidders**

**September 29, 2017**

Prospective Proposers for the above-named solicitation are hereby notified of the following corrections, additions, clarifications, and/or questions and responses:

1. To give bidders additional time to process the information in this Addendum, the County has postponed the deadline questions/RFI submittals to:  
**5:00 PM October 17, 2017.**
2. The County has postponed the Bid Response Date for this project to:  
**2:30 PM October 31, 2017.**
3. **Question:** Section 2.09. MONITORING STATION, B. Alarm Handling Capability states: The VMS specified shall handle alarms generated from the alarm interfaces of the Bosch video servers that have been integrated into the network with the video management system. In addition, the VMS is capable of combining the alarms generated from the alarm interfaces of the video servers with AND, NAND, OR, or NOR internal gating functions of the software to create new triggers that cause the VMS software to react according to preprogrammed alarm scenarios. Internal and weekly timers may be programmed to determine exactly when alarms can be active.

We can meet this requirement with an "AND/OR", but not with "NAND/NOR". What does the County really need?

**Answer:** "AND/OR" would be acceptable to the County.

4. **Question:** Section 2.11 D. states: Audio tone generator to activate on reception of an alarm. Audio tone shall be capable of being enabled or disabled on operator command.

Our system can send tones, but what the County wants is unclear.

**Answer:** If there is an alarm a tone it will be generated at the work station.

5. **Question:** The County has asked for storage for 13 months, and to consider room for an expansion of 50 cameras. The two combined would be approximately 500 TB of storage, which is different from the 32 TB of storage stated in the Scope of Work. Please clarify.

**Answer:** The required storage is for 13 months of footage, taking into account a total amount of 58 cameras. Accordingly, the County has modified the language in the Scope of Work as shown below:

4. Provide a new digital video management recording system with a minimum of thirteen (13) month storage as required by the County. Recording of all cameras for a minimum of 15 frames per second and 1080P will be based on activation by the staff operator at the Touchscreen. Provide a pre-recording of minimum 2 minutes. Estimate for 6hrs/day recording of each camera. Provide a DVD-RW drive with the network video recorder for extracting video from storage archive and transferring onto a removable media. ~~Provide 50% spare camera input capacity (not storage capacity).~~

6. **Question:** The County's storage estimates are not realistic for the products. Storage could be cut in half by running 7 frames per second rather than 15 for the indoor cameras, cutting storage requirement so to about 200 TB.

**Answer:** The County is standardizing at 13 months storage capacity. The County would accept a frame rate at 7 FPS with the ability at the monitoring station to switch the frame rate to 15 FPS on activation.

---

**Attachments:**

(None)

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**ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME**



**GENERAL SERVICES AGENCY**

**Keith D. Boggs**  
Assistant Executive Officer  
GSA Director/Purchasing Agent

1010 10<sup>th</sup> Street, Suite 5400, Modesto, CA 95354

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**ADDENDUM NO. 3**  
**to**  
**BID 17-55-BD: SECURITY CAMERA UPGRADE AT STANCERA**

**To: All Prospective Bidders**

**October 24, 2017**

Prospective Proposers for the above-named solicitation are hereby notified of the following corrections, additions, clarifications, and/or questions and responses:

1. To allow the County time to answer additional bidder requests for information, the County has postponed the Bid Response Date for this project to **2:30 PM November 6, 2017.**

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**Attachments:**

(None)

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**ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME**



**GENERAL SERVICES AGENCY**

**Keith D. Boggs**  
Assistant Executive Officer  
GSA Director/Purchasing Agent

1010 10<sup>th</sup> Street, Suite 5400, Modesto, CA 95354

Phone: (209) 525-6319  
Fax: (209) 525-7787

**ADDENDUM NO. 4**  
**to**  
**BID 17-55-BD: SECURITY CAMERA UPGRADE AT STANCERA**

**To: All Prospective Bidders**

**October 30, 2017**

Prospective Proposers for the above-named solicitation are hereby notified of the following corrections, additions, clarifications, and/or questions and responses:

1. **Question:** Will the County accept brands other than Bosch equipment? We would like to propose using an equal for the CCTV system.

**Answer:** Most of the County's current surveillance platforms are based on the BOSCH BVMS system. The County will consider substitutions if the contractor can demonstrate that the proposed substitution meets the original basis for design and features of the County-specified system.

2. **Question:** Are we allowed to add a switch to each floor, and if so, what make and model does the County prefer?

**Answer:** Yes, the contractor shall provide a cable-type switch for each floor. On other similar projects, the County has utilized CISCO 3850 and CISCO 2960-X 24 POE switches.

3. **Question:** Is the existing Lenel system under a maintenance contract?

**Answer:** No. The existing system was installed some time ago, and there is no existing maintenance contract.

4. **Question:** Lenel will dictate that the current Lenel system integrator/support plan holder tie the panic buttons into the system. To preserve the warranty, shall we assume that the selected contractor will pull the cable and install the buttons, but the existing Lenel integrator would tie the buttons in?

**Answer:** Refer to the answer to Question No. 3 above. The contractor shall tie the panic buttons into the system. The County anticipates that the panic buttons will be run to the existing Bosch D9412G intrusion detection system. This system alarms at the front security desk.

5. **Question:** Do the garage cameras feed into the security desk? Do they need to?

**Answer:** At one time, the garage system did feed the signal to the monitoring desk in the lobby, and yes, the garage cameras must feed into this security desk. The contractor will be responsible for identifying the path and then feeding the signal to the new system.

6. **Question:** May we bring in the analog garage signal with an encoder?

**Answer:** Yes, an encoder would be acceptable.



7. **Question:** Leave existing dead garage cameras in place?

**Answer:** Yes.

8. **Question:** OK to reuse existing cable/conversion?

**Answer:** Yes – the contractor shall provide the County with a test report on the cable, and if it passes, the cable can be reutilized.

9. **Question:** What are the building work hours?

**Answer:** M-F, 8:00 AM – 5:00 PM.

10. **Question:** Exhibit #A: 1.1 Existing (37) cameras in the parking garage shall remain and shall be accessible through the surveillance console at the front desk. Will these (37) cameras need to be recorded through the new Network Video Recorders using the 16-channel encoders as shown in 2.08 B Acceptable Products matrix?

**Answer:** Bid intent is to have the existing 37 cameras in the parking garage fed into the monitor console in the front lobby. The feed will need to be recorded at the head end.

11. **Question:** Exhibit #A: 1.4. Installation of (21) panic buttons. Will these panic buttons be additional zones on the existing Bosch D9412G Intrusion Detection System or a separate system?

**Answer:** The County expects the contractor will run the panic buttons to the existing Bosch D9412G intrusion detection system.

12. **Question:** Exhibit #A: 1.7. Configure Bosch VMS to allow Modesto PD access cameras during a duress signal. Will the Modesto PD need a Bosch Client VMS installed, and will it be placed on an existing workstation, or do we need to provide a new workstation?

**Answer:** The Bosch VMS software will be need to be provided to the Modesto Police Department as part of the bid. No workstation is required.

13. **Question:** Exhibit #A: 2.04 A.1. Monitors to be provide at the Staff Station. Plus camera call-up and alarm monitoring through a new Operator Interface Console (OIC). Where will the new Staff Station be located and is this part of the OIC, and is this the Touchscreen PC for monitoring as mentioned in Section 2.11?

**Answer:** Yes. The monitoring station will be in the front lobby at the existing security desk. The operator interface console will also be located at the front desk.

14. **Question:** Exhibit #A: 2.04 A.3. The NVR system will record cameras on demand, per operator control. Since the NVRs will be recording 7-FPS (per Addendum #2) at all times and 15-FPS during a Duress situation, what is the purpose of the operator control?

**Answer:** The intent is to have the ability for the operator to manually enable the 15 frames per second on any camera if so requested from the OIC.

15. **Question:** Exhibit #A: 2.04 B.1. System Components. Will rack space be available at each floor IDF closet for the network POE switches, and enough room in the 3<sup>rd</sup> floor Server Room for a new rack to mount the all-new head-end hardware?

**Answer:** The IDF closets and the location of the head hardware were shown during the bid walk. It is up to the bidder to answer this question.

16. **Question:** Exhibit #A: 2.08 B Acceptable Products. The matrix of products shows two (2) PTZ cameras, with one to be located on a parapet mount and another in-ceiling type. Where will these cameras be placed since they are not shown on the provided drawings?

**Answer:** The County is hereby eliminating the PTZ cameras from this project.

17. **Question:** Exhibit #A: 2.08 B Acceptable Products. The County also asks for a wall and a parapet mount, but only one (1) PTZ that accommodates these mounts. The placement height on a wall mount PTZ will determine if a scissor lift will be needed for installation. If roof mounted, who will be responsible for the roof penetration?

**Answer:** The County is hereby eliminating the PTZ cameras from this project.

18. **Question:** Exhibit #A: 2.17 Spare Parts. The County is asking for two (2) fixed and (1) PTZ camera for spare parts. Since there are two different PTZ's, does the County want a pendant, or in-ceiling type?

**Answer:** The County is hereby eliminating the PTZ cameras from this project.

**Question:** General Question #1: The Scope calls for removing the existing analog cameras and replacing them with new IP cameras. Is it necessary to remove all existing coax and power cables from existing cameras to the head-end?

**Answer:** No – the existing cables can be abandoned in place. Power cables not utilized are to be disconnected and made safe.

19. **Question:** General Question #2: Will a Battery Backup UPS unit need to be provided for the Camera Systems Head-end equipment on the 3<sup>rd</sup> floor Server Room, or will the County be supplying a UPS unit?

**Answer:** No UPS backup is anticipated.

---

**Attachments:**

(None)

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**ALL OTHER TERMS AND CONDITIONS REMAIN THE SAME**

**\*\*COMPLETE & RETURN THIS PAGE\*\***

**FORM OF BID**

STANISLAUS COUNTY GSA PURCHASING DIVISION

**BID NAME: SECURITY CAMERA UPGRADE AT STANCERA**  
**BID NO.: 17-55-BD**

ITEM NO.	ITEM	UNIT OF MEASURE	ESTIMATED QUANTITY	ITEM PRICE (IN FIGURES)	TOTAL (IN FIGURES)
1	Labor	LUMP SUM	1	\$ 44,150.00	
	Materials	LUMP SUM	1	\$ 69,510.00	
	Overhead & Profit	LUMP SUM	1	\$ 29,995.00	
	<b>TOTAL FOR ITEM NO. 1</b>	LUMP SUM	1		<b>\$ 143,655.00</b>
<b>PROJECT TOTAL:</b>					<b>\$ 143,655.00</b>

**Prompt Payment Discount**

Cash discount of \_\_\_\_\_% for payment within \_\_\_\_\_ calendar days, which will be computed from the date delivery is made and accepted by the County, or the date a proper invoice is received, **whichever is later**. Discount offered with payment terms of less than (20) calendar days will not be considered for award purposes. If no discount is shown, then it shall be assumed that **none** is offered and that the terms are **Net 30 days**.

**Payment and Invoicing**

Payment for services rendered and accepted will be made on a monthly basis, in arrears, after receipt of a proper detailed invoice approved by County-authorized representative. All invoices must be submitted in **duplicate** to facilitate payment.

The undersigned Bidder has examined the site and all of the documents, plans, and specifications, and shall perform all work and provide all labor, equipment, and materials for the completion and operation of the project for which this bid is made, all as set forth in the specifications provided by County, at bid amounts as stated above. The undersigned Bidder further agrees as follows:

1. Within ten (10) calendar days from the date the Notice of Acceptance of Bid is issued, shall execute the Contract and furnish to Stanislaus County GSA Purchasing (Purchasing) satisfactory insurance and contract bonds guaranteeing the faithful performance of the work and General Conditions thereto.
2. Begin work on the date specified in the Notice to Proceed letter and prosecute said work in such a manner as to complete it within **SIXTY (60) Working Days**

The work shall be so scheduled that existing facilities shall not be disrupted, but shall remain in continuous operation on present schedules.

Accompanying this bid is Bidder's security issued in the form of a bond, a cashier check, or a certified check. Refer to the section of this document titled "GENERAL CONDITIONS AND INSTRUCTIONS TO BIDDER" for additional information about bonding requirements.

Name of Bidder: VAS Security Systems, Inc. a division of Edgeworth Security, LLC.

Business Address: 1257 Quarry Lane Ste #125 Telephone: 510-737-0464

City, State, Zip Code: Pleasanton, CA 94566

License #: 718072 License Expiration Date: 05/31/2019

Classification: C7 & C10 DIR Registration #: 1000009107

Dated: 11/03/2017 Fax: 805-915-0212 Email: Dannyh@VASsecurity.com

By: 

Name: Danny W. Haddad (Printed) Project Manager/Security Consultant (Title)

**Note:** If incorporated, President, Secretary or Treasurer should sign as such (If partnership, by all partners thereto).

**\*\*COMPLETE & RETURN THIS PAGE\*\***

**ADDENDA ACKNOWLEDGEMENT**

**BID NAME: SECURITY CAMERA UPGRADE AT STANCERA  
BID NO.: 17-55-BD**

**Bidder shall complete the below and return with the FORM OF BID:**

Addendum No. <u>1</u>	Dated <u>09/20/2017</u>	Date Received <u>09/20/2017</u>	Initials <u>DH</u>
Addendum No. <u>2</u>	Dated <u>09/29/2017</u>	Date Received <u>09/29/2017</u>	Initials <u>DH</u>
Addendum No. <u>3</u>	Dated <u>10/24/2017</u>	Date Received <u>10/24/2017</u>	Initials <u>DH</u>
Addendum No. <u>4</u>	Dated <u>10/30/2017</u>	Date Received <u>10/30/2017</u>	Initials <u>DH</u>
Addendum No. _____	Dated _____	Date Received _____	Initials _____
Addendum No. _____	Dated _____	Date Received _____	Initials _____

Bidder's Name (Printed): Danny W. Haddad  
Bidder's Signature:   
Bidder's Title: Project Manager/Consultant

---

**BOND REQUIREMENTS \***

Bid Security required	<b>YES</b>	Amount <u>\$ 10% of the Project Price</u>
Performance bond required	<b>YES</b>	Amount <u>\$ 100%</u>
Payment bond required	<b>YES</b>	Amount <u>\$ 100%</u>

\*See item 3 under General Terms and Conditions for specific security/bonding requirements. If required, only the successful Bidder shall submit a performance and payment bond as described in the General Terms and Conditions of this Bid.

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**SUBCONTRACTOR LIST**

**BID NAME: SECURITY CAMERA UPGRADE AT STANCERA**  
**BID NO.: 17-55-BD**

Each bid shall have listed therein the name and address of each subcontractor to whom Bidder proposes to subcontract portions of the work in an amount in excess of half of one percent (.5%) of the total bid, or \$10,000, whichever is greater. This is in accordance with the Subletting and Subcontracting Fair Practices Act, commencing with Section 4100 of the Public Contract Code. Bidder's attention is invited to other provisions of said Act related to the imposition of penalties for failure to observe its provisions by using unauthorized subcontractors or by making unauthorized substitutions.

NOTE: A contractor or subcontractor shall not be qualified to bid on, or be listed in a bid proposal, subject to the requirements of Section 4104 of the Public Contract Code, or engage in the performance of any contract for public work, as defined in this Section, unless currently registered and qualified to perform public work pursuant to Section 1725.5 of the Labor Code. It is not a violation of this Section for an unregistered contractor to submit a bid that is authorized by Section 7029.1 of the Business and Professions Code or by Section 10164 or 20103.5 of the Public Contract Code, provided the contractor is registered to perform public work pursuant to Section 1725.5 of the Labor Code at the time the contract is awarded.

	<u>SUBCONTRACTOR TYPE</u>	<u>LICENSE NO.</u>	<u>NAME &amp; ADDRESS OF SUBCONTRACTOR</u>	<u>DIR #</u>
1.	Cabling & Terminating	843679	R3J Network Services 751 1st St Ste A Gilroy, CA 95020	1000033753
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.				
12.				
13.				
14.				
15.				
16.				
17.				
18.				

(Signed)   
Bidder / Prime Contractor

## EXHIBIT B

### Insurance Requirements for Construction Contracts

Contractor shall procure and maintain for the duration of the contract, and for 3 years thereafter, insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the work hereunder by the Contractor, his agents, representatives, employees, or subcontractors.

#### MINIMUM SCOPE AND LIMIT OF INSURANCE

Coverage shall be at least as broad as:

1. **Commercial General Liability (CGL):** Insurance Services Office Form CG 00 01 covering CGL on an "occurrence" basis, including products and completed operations, property damage, bodily injury and personal & advertising injury with limits no less than \$2,000,000 per occurrence. If a general aggregate limit applies, either the general aggregate limit shall apply separately to this project/location (ISO CG 25 03 or 25 04) or the general aggregate limit shall be twice the required occurrence limit.
2. **Automobile Liability:** Insurance Services Office Form Number CA 0001 covering Code 1 (any auto), with limits no less than \$1,000,000 per accident for bodily injury and property damage.
3. **Workers' Compensation** insurance as required by the State of California, with Statutory Limits, and Employers' Liability insurance with a limit of no less than \$1,000,000 per accident for bodily injury or disease.
4. **Builder's Risk (Course of Construction)** insurance utilizing an "All Risk" (Special Perils) coverage form, with limits equal to the completed value of the project and no coinsurance penalty provisions.
5. **Surety Bonds** as described below.
6. **Professional Liability** (if Design/Build), with limits no less than \$1,000,000 per occurrence or claim, and \$2,000,000 policy aggregate.
7. **Contractors' Pollution Legal Liability** and/or Asbestos Legal Liability and/or Errors and Omissions (if project involves environmental hazards) with limits no less than \$1,000,000 per occurrence or claim, and \$2,000,000 policy aggregate.

If the contractor maintains broader coverage and/or higher limits than the minimums shown above, the County requires and shall be entitled to the broader coverage and/or higher limits maintained by the contractor. Any available insurance proceeds in excess of the specified minimum limits of insurance and coverage shall be available to the County.

**Application of Excess Liability Coverage:** Contractors may use a combination of primary, and excess insurance policies which provide coverage as broad as ("follow form" over) the underlying primary policies, to satisfy the Required Insurance provisions.

#### **Other Insurance Provisions**

The insurance policies are to contain, or be endorsed to contain, the following provisions:

***Additional Insured Status***

The County, its officers, officials, employees, agents and volunteers are to be covered as additional insureds on the CGL policy with respect to liability arising out of work or operations performed by or on behalf of the Contractor including materials, parts, or equipment furnished in connection with such work or operations and automobiles owned, leased, hired, or borrowed by or on behalf of the Contractor. General liability coverage can be provided in the form of an endorsement to the Contractor's insurance (at least as broad as ISO Form CG 20 10, CG 11 85 or both CG 20 10, CG 20 26, CG 20 33, or CG 20 38; and CG 20 37 forms if later revisions used).

***Primary Coverage***

For any claims related to this contract, the Contractor's insurance coverage shall be primary coverage at least as broad as ISO CG 20 01 04 13 as respects the County, its officers, officials, employees, agents and volunteers. Any insurance or self-insurance maintained by the County, its officers, officials, employees, agents or volunteers shall be excess of the Contractor's insurance and shall not contribute with it.

***Builder's Risk (Course of Construction) Insurance***

Contractor may submit evidence of Builder's Risk insurance in the form of Course of Construction coverage. Such coverage shall name the County as a loss payee as their interest may appear.

If the project does not involve new or major reconstruction, at the option of the County, an Installation Floater may be acceptable. For such projects, a Property Installation Floater shall be obtained that provides for the improvement, remodel, modification, alteration, conversion or adjustment to existing buildings, structures, processes, machinery and equipment. The Property Installation Floater shall provide property damage coverage for any building, structure, machinery or equipment damaged, impaired, broken, or destroyed during the performance of the Work, including during transit, installation, and testing at the County's site.

***Reporting***

Any failure to comply with reporting provisions of the policies shall not affect coverage provided to the County or its officers, officials, employees, agents or volunteers.

***Notice of Cancellation***

Each insurance policy required above shall provide that coverage shall not be canceled, except with notice to the County.

***Waiver of Subrogation***

Contractor hereby agrees to waive rights of subrogation (except for Professional Liability) which any insurer of Contractor may acquire from Contractor by virtue of the payment of any loss. Contractor agrees to obtain any endorsement that may be necessary to affect this waiver of subrogation. The Workers' Compensation policy shall be endorsed with a waiver of subrogation in favor of the County for all work performed by the Contractor, its employees, agents and subcontractors.

***Self-Insured Retentions***

Self-insured retentions must be declared to and approved by the County. At the option of the County, either: the contractor shall cause the insurer shall reduce or eliminate such self-insured retentions as respects the County, its officers, officials, employees, and volunteers; or the Contractor shall provide a financial guarantee satisfactory to the County guaranteeing payment of losses and related investigations, claim administration, and defense expenses. The policy language shall provide, or be endorsed to provide, that the self-insured retention may be satisfied by either the named insured or County.

***Acceptability of Insurers***

Insurance is to be placed with California admitted insurers (licensed to do business in California) with a current A.M. Best's rating of no less than A-VII, however, if no California admitted insurance company provides the required insurance, it is acceptable to provide the required insurance through a United States domiciled carrier that meets the required Best's rating and that is listed on the current List of Approved Surplus Line Insurers (LASLI) maintained by the California Department of Insurance.

***Claims Made Policies***

If any coverage required is written on a claims-made coverage form:

1. The retroactive date must be shown, and this date must be before the execution date of the contract or the beginning of contract work.
2. Insurance must be maintained and evidence of insurance must be provided for at least five (5) years after completion of contract work.
3. If coverage is canceled or non-renewed, and not replaced with another claims-made policy form with a retroactive date prior to the contract effective, or start of work date, the Contractor must purchase extended reporting period coverage for a minimum of five (5) years after completion of contract work.
4. A copy of the claims reporting requirements must be submitted to the County for review.
5. If the services involve lead-based paint or asbestos identification/remediation, the Contractors Pollution Liability policy shall not contain lead-based paint or asbestos exclusions. If the services involve mold identification/remediation, the Contractors Pollution Liability policy shall not contain a mold exclusion, and the definition of Pollution shall include microbial matter, including mold.

***Verification of Coverage***

Contractor shall furnish the County with original certificates and amendatory endorsements, or copies of the applicable insurance language, effecting coverage required by this contract. All certificates and endorsements are to be received and approved by the County before work commences. However, failure to obtain the required documents prior to the work beginning shall not waive the Contractor's obligation to provide them. The County reserves the right to require complete, certified copies of all required insurance policies, including endorsements, required by these specifications, at any time. We strongly recommend obtaining a copy of the policy declarations and endorsement page (make this a requirement in your Contract) to facilitate verification of coverages and spot any undesirable policy limitations or exclusions.



***Subcontractors***

Contractor shall require and verify that all subcontractors maintain insurance meeting all the requirements stated herein, and Contractor shall ensure that County is an additional insured on insurance required from subcontractors. For CGL coverage subcontractors shall provide coverage with a format least as broad as CG 20 38 04 13.

***Surety Bonds***

Contractor shall provide the following Surety Bonds:

1. Bid bond
2. Performance bond
3. Payment bond
4. Maintenance bond

The Payment Bond and the Performance Bond shall be in a sum equal to the contract price. If the Performance Bond provides for a one-year warranty a separate Maintenance Bond is not necessary. If the warranty period specified in the contract is for longer than one year a Maintenance Bond equal to 10% of the contract price is required. Bonds shall be duly executed by a responsible corporate surety, authorized to issue such bonds in the State of California and secured through an authorized agent with an office in California.

***Special Risks or Circumstances***

County reserves the right to modify these requirements, including limits, based on the nature of the risk, prior experience, insurer, coverage, or other circumstances.

***Insurance Limits***

The limits of insurance described herein shall not limit the liability of the Contractor and Contractor's officers, employees, agents, representatives or subcontractors. Contractor's obligation to defend, indemnify and hold the County and its officers, officials, employees, agents and volunteers harmless under the provisions of this paragraph is not limited to or restricted by any requirement in the Agreement for Contractor to procure and maintain a policy of insurance.

[SIGNATURES SET FORTH ON THE FOLLOWING PAGE]

APPROVED AS TO INSURANCE CONTENT:

Stanislaus County

Chief Executive Office – Risk Management Division

By: Kevin Watson

Name: Kevin Watson

Title: Liability & Insurance Manager

Date: 12/28/17