

**COUNTY OF McHENRY
McHENRY COUNTY ADMINISTRATION BUILDING
PURCHASING DEPARTMENT - ROOM 200
2200 N. SEMINARY AVENUE
WOODSTOCK, IL 60098**

Sealed bids will be accepted in the above office until

September 1, 2016 at 2:00 P.M. (CST)

For

BID #16-48

***PROVIDE ELECTRONIC SECURITY
SYSTEM UPGRADES AT THE McHENRY
COUNTY JAIL***

CONTACT PERSON - DONALD A. GRAY, CPPB
DIRECTOR OF PURCHASING
Phone - (815) 334-4818
Fax - (815) 334-4680

MAILING ADDRESS: Purchasing Department 2200 N Seminary Ave #200 Woodstock IL 60098	DROP OFF IN PERSON: Purchasing Department 667 Ware Road #200 Woodstock IL 60098
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COMPANY

DATE

CONTACT PERSON

ADDRESS

E-MAIL ADDRESS

CITY, STATE AND ZIP

TELEPHONE NO

FAX NO.

TIN (FEIN, or Social Security) NUMBER

The attention of bidders is directed to the McHenry County Purchasing Ordinance, approved August 1, 2014. This Ordinance is incorporated by reference into this bid as if it were contained herein. If you have not received a copy of the above Ordinance and desire a copy, please contact the office of the Director of Purchasing.

SCOPE OF WORK

The County of McHenry is soliciting bids to Provide Electronic Security System Upgrades at the McHenry County Jail, located at 2200 N Seminary Road, Woodstock, Illinois 60098. Subject to continuing need and availability of funds. Bid per specifications contained herein.

There will be a PRE-BID MEETING and SITE VISIT on August 17, 2016, at 9:00a.m. BIDDERS ARE STRONGLY ENCOURAGED TO ATTEND. Bidders are allowed no more than two (2) representatives. THE COUNTY REQUESTS WRITTEN CONFIRMATION OF PRE-BID ATTENDANCE.

PLEASE FILL OUT THE "PRE-BID CONFIRMATION FORM" AND FAX TO 815-334-4605 OR EMAIL: DMLEONARD@CO.MCHENRY.IL.US.

SCHEDULE OF EVENTS

August 10, 2016	Bid Available
August 17, 2016	Pre-bid meeting and Site Visit , McHenry County Government Center, 2200 North Seminary Avenue, Woodstock, IL at 9:00a.m - Jail public entrance.
August 19, 2016	Vendors Questions Submitted via fax to 815-334-4680 by 4:00 P.M.(CST)
August 24, 2016	Vendors Questions Answered via fax and Posted on Website by 4:00 P.M.(CST)
September 1, 2016	Bid due in Purchasing at 2:00 P.M.(CST)

PAYMENT

Payment will be processed after receipt of delivery invoice and appropriate affidavit.

NON-DISCRIMINATION

Contractor shall comply with the Illinois Human Rights Act, 775 ILCS 5/1-101 et seq., as amended and any rules and regulations promulgated in accordance therewith, including, but not limited to the Equal Employment Opportunity Clause, Illinois Administrative Code, Title 44, Part 750 (Appendix A), 775 ILCS 5/1-102, which is incorporated herein by reference, and constituting of a written EEO Policy and a workforce profile that demonstrates its EEO practices. Furthermore, the Contractor shall comply the Public Works Employment Discrimination Act, 775 ILCS 10/0.01 et seq., as amended. The Contractor must have a written sexual harassment policy which meets Illinois State Statutes, 775 ILCS, 15/3.

PREVAILING WAGE

The State of Illinois requires that all wages paid by the Contractor and each subcontractor shall be in compliance with The Prevailing Wage Act (820 ILCS 130), as amended. This requires payment of the general prevailing rate for each craft or type of worker, including payment of the general prevailing rate for legal holiday and overtime work. The Illinois Department of Labor publishes the prevailing wage rates on its website at www.state.il.us/agency/idol/rates.htm. The Contractor shall review the wage rates applicable to the work of the contract at regular intervals in order to ensure the timely payment of current wage rates. The Contractor agrees that no additional notice is required. The Contractor shall be responsible to notify each subcontractor of the wage rates set forth in this contract and any revisions thereto. A copy of the prevailing wage rates is posted on the McHenry County website at www.co.mchenry.il.us under BIDS and RFP's. If wage rates change during the course of the project, the new rates will be available in the County of McHenry Purchasing Office. Vendors may access the Illinois Department of Labor website for updates www.state.il.us/agency/idol.

CERTIFIED PAYROLL REQUIREMENTS (Public Act 94-0515)

Effective August 10, 2005 contractors and subcontractors on public works projects must submit certified payroll records on a monthly basis to the public body in charge of the construction project, along with a statement affirming that such records are true and accurate, that the wages paid to each worker are not less than the required prevailing rate and that the contractor is aware that filing records he or she knows to be false is a Class B misdemeanor.

The certified payroll records must include for every worker employed on the public works project the name, address, telephone number, social security number, job classification, hourly wages paid in each pay period, number of hours worked each day, and starting and ending time of work each day. These certified payroll records are considered public records and public bodies must make these records available to the public under the Freedom of Information Act, with the exception of the employee's address, telephone number and social security number. Any contractor who fails to submit a certified payroll or knowingly files a false certified payroll is guilty of a Class B misdemeanor.

INCREASED PENALTIES FOR PREVAILING WAGE VIOLATIONS (Public Act 94-0488)

Effective January 1, 2006, penalties for violations of the Prevailing Wage Act will increase from 20% to 50% of the underpaid amounts for second or subsequent violations. An additional penalty of 5% of the underpayment penalty must be paid to workers for each month the wages remain unpaid (up from the current 2% penalty). For violations that occur after January 1, 2006, the debarment period during which contractors are ineligible for public works contracts increases from 2 years to 4 years if two notices of violation are issued/serious violations occur within a 5-year period. In addition, a new monetary penalty of \$5,000 may be assessed against contractors who retaliate against employees who report violations or file complaints under the Prevailing Wage Act.

SUBSTANCE ABUSE PREVENTION ON PUBLIC WORKS PROJECTS ACT

The successful bidder must be in compliance with State of Illinois HB-1855 (Public Act 095-0635), which amends the Prevailing Wage Act. Before an employer commences work on a public works project, the employer shall have in place a written program which meets or exceeds the program requirements in this Act, to be filed with the public body engaged in the construction of the public works and made available to the general public, for the prevention of substance abuse among its employees. The testing must be performed by a laboratory that is certified for Federal Workplace Drug Testing Programs by the Substance Abuse and Mental Health Service Administration of the U.S. Department of Health and Human Services.

PROCUREMENT OF GREEN PRODUCTS AND TECHNOLOGIES

As approved by the McHenry County Board in April 2008, it is in the interest of public health, safety and welfare and the conservation of energy and natural resources to use and promote environmentally responsible products. The County should strive to influence private purchases through the example of using government specifications and standards that are green or environmentally friendly when making its purchases.

Whenever available and cost-justified, the County should purchase those materials including the purchase of recycled products containing post-consumer materials rather than residual materials resulting from the processing or manufacturing from another product. To the extent practicable, all products standards shall emphasize functional or performance criteria which do not discriminate against the use of recycled materials.

McHenry County should cooperate to the greatest extent feasible with other governments and organizations to develop a comprehensive, consistent and effective procurement effort intended to stimulate the market for recycled products, reusable products, products designed to be recycled, and other environmentally responsible products.

McHenry County shall continue to participate in and shall encourage other public jurisdictions to participate with the County in the purchase of products containing recycled content. Participation in such cooperative systems shall be aimed at obtaining maximum practical recycled content in County purchases, to obtain best available price for products with recycled content, to facilitate or encourage lower prices industry-wide and to encourage development of industries and markets dealing with recycled content products.

PROCUREMENT OF PRODUCTS THAT ARE ENERGY STAR QUALIFIED

McHenry County shall select, where life cycle and cost-effective, ENERGY STAR and other energy efficient products, when acquiring energy-using products. This information will be required by the bidder in their bid submittal.

SECURITY

The contractor represents and warrants to the County of McHenry that neither it nor any of its principals, shareholders, members, partners or affiliates, as applicable, is a person or entity named as a Specially Designated National and Blocked Person (as defined in Presidential Executive Order 13224) and that it is not acting, directly or indirectly, for or on behalf of a Specially Designated National and Blocked Person. The Contractor further represents and warrants to the County of McHenry that the Contractor and its principals, shareholders, members, partners, or affiliates, as applicable, are not directly or indirectly, engaged in, and are not facilitating, the transactions contemplated by this Agreement on behalf of any person or entity named as Specially Designated National and Blocked Person. The Contractor hereby agrees to defend, indemnify and hold harmless the County of McHenry, the Corporate Authorities, and all County of McHenry elected or appointed officials, officers, employees, agents, representatives, engineers and attorneys, from and against any and all claims, damages, losses, risks, liabilities, and expenses (including reasonable attorneys' fees and costs) arising from or related to any breach of the foregoing representation and warranties.

PURCHASE EXTENSION

This contract shall be offered for purchases to be made by other counties and governmental units within the State of Illinois as authorized by the Government Joint Purchasing Act. All purchases and payments made under this authority shall be made directly by the governmental unit to the Vendor. The County of McHenry shall not be responsible in any way for such purchase orders or payments. All terms and conditions of this contract shall apply to all orders placed by another governmental unit.

ADDENDUM

Should the Vendor require any additional information about this Bid, please fax to Purchasing (815-334-4680) any questions by the deadline as outlined in the schedule of events. ANY AND ALL changes to these specifications are valid only if they are included by Written Addendum to All Bidders. NO interpretation of the meaning of the plans, specifications, or other contract documents will be made orally. If required, all addenda will be faxed to bidder if a Notice of Intent to Bid has been completed and faxed to the Purchasing Office. In addition, all addenda are posted on the County of McHenry's website. Failure of the bidder to receive any such addendum or interpretation shall not relieve the bidder from obligation under this Bid as submitted. All addenda so issued shall become part of the bid documents. Failure to request an interpretation constitutes a waiver to later claim that ambiguities or misunderstandings caused by a bidder to improperly submit a bid. Response to these questions will be made by means of an addendum. Only the Director of Purchasing has the authority to issue an addendum.

Addenda are written instruments issued by the County prior to the date for receipt of proposals, which modify or interpret the Bid by addition, deletions, clarifications or corrections.

Prior to the receipt of bids, addenda will be faxed or delivered to all who are known to have received a Notice to Bid. Each vendor shall ascertain prior to submitting a bid that all addenda issued have been received and, by submission of a bid, such act shall be taken to mean that such vendor has received all addenda and that the vendor is familiar with the terms thereof and understands fully the contents of the addenda.

TAXES

The County of McHenry is exempt from paying Illinois Use Tax, Illinois Retailers Occupation Tax and Federal Excise Tax. The bidder's attention is directed to the McHenry County Purchasing Ordinance {S3-10, (9), (10), and (11)}.

INSURANCE

(1) GENERAL

The successful bidder shall maintain for the duration of the contract and any extensions thereof, at bidder's expense, insurance that includes "Occurrence" basis wording and is issued by a company or companies qualified to do business in the State of Illinois that are acceptable to the County, which generally requires that the company(ies) be assigned a Best's Rating of A or higher with a Best's financial size category of Class XIV or higher, in the following types and amounts:

- (a) Commercial General Liability in a broad form, to include, but not limited to, coverage for the following where exposure exists: Bodily Injury and Property Damage, Premises/Operations, Independent contractors, Products/Completed Operations, Personal Injury and Contractual Liability; limits of liability not less than:

\$1,000,000 per occurrence and \$2,000,000 in the aggregate;

- (b) Business Auto Liability to include, but not be limited to, coverage for the following where exposure exists: Owned Vehicles, Hired and Non-Owned Vehicles and Employee Non-Ownership; limits of liability not less than:

\$1,000,000 per occurrence, combined single limit for:
Bodily Injury Liability and Property Damage Liability;

- (c) Workers' Compensation Insurance to cover all employees and meet statutory limits in compliance with applicable state and federal laws. The coverage must also include Employer's Liability with minimum limits of \$100,000 for each incident.

(2) EVIDENCE OF INSURANCE

The successful bidder agrees that with respect to the above required insurance that:

- (a) The County of McHenry shall be provided with Certificates of Insurance evidencing the above required insurance, prior to commencement of the contract and thereafter with certificates evidencing renewals or replacements of said policies of insurance at least fifteen (15) days prior to the expiration or cancellation of any such policies;
- (b) The contractual liability arising out of the contract shall be acknowledged on the Certificate of Insurance by the insurance company;
- (c) The County of McHenry shall be provided with thirty (30) days prior notice, in writing, of Notice of Cancellation or material change and said notification requirement shall be stated on the Certificate of Insurance;
- (d) Subcontractors, if any, comply with the same insurance requirements. In addition to being named as an additional insured on the Certificate of Insurance, each liability policy shall contain an endorsement naming the County of McHenry as an additional insured. A copy of the endorsement shall be provided to McHenry County along with the Certificate of Insurance; and
- (e) have McHenry County and Wold Architects and Engineers named as an additional insured and the address for certificate holder must read exactly as:

County of McHenry, **a body politic**
2200 N. Seminary Avenue
Woodstock, IL 60098

- (e) Insurance Notices and Certificates of Insurance shall be provided to:

McHenry County, Purchasing Department
2200 N. Seminary Avenue, Room 200
Woodstock, Illinois 60098

HOLD HARMLESS CLAUSE

The successful bidder will agree to indemnify, save harmless and defend the County of McHenry, its agents, servants, and employees, and each of them against and hold it and them harmless from any and all lawsuits, claims, demands, liabilities, losses and expenses, including court costs and attorney's fees, for or on account of any injury to any person, or any death at any time resulting from such injury, or any damage to property, which may arise or which may be alleged to have arisen out of or in connection with the work covered by this contract upon award. The foregoing indemnity shall apply except if such injury, death or damage is caused directly by the willful and wanton conduct of the County of McHenry, its agents, servants, or employees or any other person indemnified hereunder.

BID RESPONSE

It is highly recommended that the vendor completely read the bid prior to filling out to become acquainted with terms and conditions of the bid document and merchandise requirements. No relief will be allowed from the bid conditions unless you take written exception to that condition on your bid. **BIDS MUST BE SUBMITTED IN DUPLICATE FORM, (One Original, and One Copy). BIDS ARE DUE BACK BY 2:00 P.M. (CST) ON SEPTEMBER 1, 2016.**

Bidders are urged to respond to this bid request in every case to insure being maintained on current bid lists. Explanations of the reasons for not bidding will assist in maintaining the bidder on the correct bid list(s).

SUBMITTAL

Submit one (1) bid, multiple bids will not be accepted.

GENERAL CONDITIONS

This bid shall be firm for at least 120 days after the latest time specified for submission for bids and thereafter until written notice is received from the bidder.

AWARD OF ORDER

The County will award a purchase order to the lowest responsive, responsible bidder meeting the County's requirements as listed in this document. The County will be the sole judge of acceptability of any products offered.

WORKMANSHIP

Items shall be manufactured according to the highest traditions of the industry and shall meet all commercial standards of quality. The County shall be the sole judge of acceptable products. Unacceptable products will be rejected and suitable price adjustments made.

MISCELLANEOUS

It is the bidder's task to be familiar with the referenced items and to offer only products of equal or greater quality. Any questions on specifications should be directed to the Purchasing Department.

EXCEPTIONS

The bid speaks for itself. Bidders taking exception to any terms, conditions or specifications of this bid must clearly state in writing such exception(s) either on or with their bid. The County will be the sole judge of the acceptability of any exception noted, and is not bound to consider any bid submitted with exceptions.

ALTERNATES

Trade names are used solely for the purpose of setting minimum standards of quality and performance and are not to be construed as exclusionary. Bidders are encouraged to contact the Purchasing Department prior to the bid opening for the purpose of clarifying specifications.

FULL PRICING AND CONTINGENCIES

The County shall hold the successful bidder to bid pricing. Additional charges for contingencies discovered by the vendor at any time after the date of opening of this bid will not be considered for payment by the County.

RECOURSE FOR UNSATISFACTORY MATERIALS

Payment shall be contingent upon the County's inspection of and satisfaction with completed work. Any defective work or materials, non-conformance to bid specifications, damaged materials, or unsatisfactory installation shall be corrected to the County's satisfaction by the successful bidder at no additional charge.

TERMINATION

Failure to comply with the terms and conditions as herein stated shall be cause for cancellation of the contract. The County will give written notice of unsatisfactory performance and the contractor will be allowed thirty (30) days to take corrective action and accomplish satisfactory control. If at the end of the thirty days, the County deems the contractor's performance still unsatisfactory, the contract shall be canceled. The exercise of its right of cancellations shall not limit the County's right to seek any other remedies allowed by law.

The successful bidder will agree that the resulting contract is made subject to available budgetary appropriations and shall not create any obligation on behalf of the County in excess of such appropriations. In the event that no funds or insufficient funds are appropriated and budgeted, this Contract shall terminate without penalty or expense to the County thirty (30) days after written notification of termination from the County.

The successful bidder will agree that pursuant to requirements imposed under Illinois law, the County shall have 120 days after each election of county board members to terminate this Agreement, without cause and without penalty.

CHOICE OF LAW AND VENUE

The bidder agrees that this bid has been executed and delivered in Illinois and that their relationship and any and all disputes, controversies or claims arising under this bid or any resulting contract shall be governed by the laws of the State of Illinois, without regard to conflicts of laws principles. The bidder further agrees that the exclusive venue for all such disputes shall be the Circuit Court of the 22nd Judicial Circuit of McHenry County, Illinois, and the bidder hereby consent to the personal jurisdiction thereof.

COMPLIANCE WITH LAWS

The bidder hereto covenants and agrees to comply with all applicable federal, state, and local laws, codes, ordinances, rules and regulations. Failure to comply with the terms of this provision shall constitute a breach of contract and permit the County to terminate this (Request for Sealed Proposal/Bid) in accordance with the termination provisions stated herein.

REJECTION OF BIDS, WAIVER OF IRREGULARITIES

McHenry County reserves the right to reject any or all bids, to waive irregularities, and to accept that bid which is considered to be in the best interest of the County. Any such decision shall be considered final.

PROTEST PROCEDURES

Any Bidder who believes contractual terms or specifications are unnecessarily restrictive or limit competition may submit a protest, in writing, to the Director of Purchasing. To be considered, the protest must be received by McHenry County five (5) days prior to the stated bid opening. Any adversely affected or aggrieved Bidder shall have ten (10) days from the date of the bid opening to file a written protest regarding the intent to award the bid. Protests submitted after that date will not be accepted. Protests must specify the grounds upon which the protest is based (refer to appropriate statute, rule, code, or ordinance which defines the protest process).

BIDDER'S ATTACHMENT TO THE BID

Any attachment to this bid, as required by the bid conditions, or made at the bidder's option, must reference on their face the bid title, opening date, and time.

DELIVERY

Delivery will be considered in making the award and the bidders shall state, in the spaces provided, expected delivery after receipt of Purchase Order. Failure to meet said delivery promises without prior consent of the Director of Purchasing will be considered a breach of faith.

PERFORMANCE AND PAYMENT BOND:

A Performance and Payment Bond will be required by the accepted bidder as described below if the bid amount exceeds \$50,000.00.

- Payment and Performance Bond shall be in the amount of 110% of the bid value. Any additional scope value during the project must be covered by the bonds.
- Obligee is County of McHenry, project owner for the Payment and Performance Bonds.
- Payment and Performance Bonds must be signed by an official of the bonding company and accompanied by the bonding agent's written Power of Attorney.
- Provide three (3) copies of each of the bonds and the Power of Attorney in order that one copy of each may be attached to each copy of the contract agreement. Bonds must be submitted to McHenry County within two (2) weeks of the notice of award, if start of construction is sooner, then bonds must be submitted a minimum of two (2) days prior.
- Date of Agreement and Payment and Performance Bonds shall be the same.
- Such Payment and Performance Bonds shall be issued by a surety listed on the Department of Treasury's listing as approved sureties (Department Circular 570) with an A.M. Best Rating of "A" or better which is licensed in the state of the location of the project and must be acceptable to the design-builder.

BID BOND:

Each separate bid shall be accompanied by a bid bond, certified check, or a cashier's check, drawn on a bank authorized to do business in Illinois, in a dollar amount of not less than five percent (5%) of the sum of the computed total amount of the bid or five hundred dollars (\$500), whichever is greater.

FREIGHT

Freight is all inclusive unless otherwise stated.

FUEL SURCHARGE

The County of McHenry does NOT accept any fuel surcharges.

***** NOTE THIS BID REQUIRES PREVAILING WAGES. PLEASE VISIT THE IDOL WEBSITE FOR INSTRUCTIONS. IT IS THE RESPONSIBILITY OF THE AWARDED VENDOR TO SUBMIT CERTIFIED PAYROLLS TO THE COUNTY *****

Prior to distribution of plans and complete specifications, potential Bidders must complete the following **CONFIDENTIALTY AND NON-DISCLOSURE AGREEMENT** and submit to the McHenry County Purchasing Department.

Fax to 815-334-4680 or email: DMLEONARD@CO.MCHENRY.IL.US

CONFIDENTIALITY AND NON-DISCLOSURE AGREEMENT

Prior to distribution of plans and specifications, potential Bidders must complete this form and submit to the McHenry County Purchasing Department. Upon receipt, all documents will be distributed in paper or password-protected digital format by Wold Architects and Engineers.

_____ (insert company name) (hereinafter the "Bidder") hereby agrees by submitting this form, to all conditions stated herein and agrees to comply with, and certify in writing, all documents have been destroyed/deleted upon conclusion of the bidding process.

BIDDER QUALIFICATIONS:

At a minimum, Bidder represents and warrants that it meets the following qualifications and further understands and agrees that failure to meet these qualifications may result in disqualification of bid.

- A. Bidder has a minimum of five (5) continuous years in the business of installing electronic security systems in justice/detention and/or correctional facilities incorporating systems and equipment including but not limited to intercom/paging, programmable logic controllers, touch screen control, access control, and video surveillance systems.
- B. Bidder has successfully completed at least three (3) detention facilities of similar size and complexity that have been in operation for at least one year.
 - 1. Successful completion shall be determined by information from references confirming project was not delayed by the completion of electronic security systems, electronic security systems were fully operational *within 90 days* of substantial completion and electronic security systems remained fully operational at conclusion of warranty period or two years whichever is greater.
 - 2. Projects of similar size are represented by construction cost value in excess of two million dollars (\$2,000,000.00).
 - 3. Projects of similar complexity are represented by integrated systems including but not limited to intercom/paging, programmable logic controllers, touch screen control, operating in a network environment with a minimum five (5) equipment locations (nodes).
- C. Bidder shall provide references and McHenry County and/or its representative(s) may at their own discretion contact other references for projects in addition to those submitted by the applicant.

DOCUMENT DISTRIBUTION AND DESTRUCTION AFFIDAVIT

By submitting this form, Bidder hereby agrees that all documents distributed to it and all information within the documents are confidential information (the "Confidential Information") and will be kept secure from public distribution, viewing and/or copying, and that all Confidential Information will be maintained in confidence and not disclosed to any other person or entity or utilized directly or indirectly, except as set forth herein. Bidder shall use the utmost degree of care to prevent disclosure of the Confidential Information. Only those parties (subcontractors, vendors, etc.) deemed necessary for completion of the bidding process will have said Confidential Information distributed to them. Upon completion of the bidding process, Bidder agrees to return all documents containing any Confidential Information to McHenry County. Failure to comply with these terms may result in disqualification of bid and/or legal action on the part of McHenry County.

DATE: _____

BIDDER NAME: _____

OFFICIAL ADDRESS: _____

TELEPHONE NUMBER: (_____) _____

EMAIL: _____

BY: (Signature)_____

(Printed)_____

TITLE: _____

There will be a Pre-Bid Meeting and Site Visit on August 17, 2016, at **9:00a.m.**

Bidders are allowed no more than two (2) representatives.

Potential bidders must complete the following **PRE-BID CONFIRMATION FORM** and submit to the McHenry County Purchasing Department.

Fax to 815-334-4680 or EMAIL to: dmleonard@co.mchenry.il.us



COUNTY of McHENRY

McHENRY COUNTY GOVERNMENT CENTER
ADMINISTRATION BUILDING ROOM 200
2200 NORTH SEMINARY AVENUE
WOODSTOCK, IL 60098-2637

815/334-4818
FAX 815/334-4680

Donald A. Gray, CPPB
DIRECTOR OF PURCHASING

August 10, 2016

PRE-BID CONFIRMATION

BID # 16-48

**PROVIDE ELECTRONIC SECURITY SYSTEM UPGRADES AT THE McHENRY
COUNTY JAIL**

Confirmation DEADLINE *August 16, 2016 at 2:00 PM(CST)*
DATE/TIME: _____

BID #16-48 has been issued and is available on McHenry County's web site at www.co.mchenry.il.us. BID DUE DATE IS SEPTEMBER 1, 2016 AT 2:00PM (CST).

Please fax back (815-334-4680) once signed OR EMAIL TO
DMLEONARD@CO.MCHENRY.IL.US

Company: _____

Printed Name: _____

Signature: _____

DO YOU PLAN ON ATTENDING THE PRE-BID/SITE VISIT?

YES _____ NO _____

SPECIFICATIONS

PROJECT SCOPE SUMMARY

Briefly and without force and effect upon the Contract Documents, the Work of this single prime Contract can be summarized as follows:

- A. A new electronic security system shall be provided to encompass all existing and new equipment and devices as described within the specifications and drawings (to be made available to Contractors upon submission of the Document Request Form). Although the system is made up of several sub systems, they shall be integrated in both physical and electronic manner to achieve a single system presentation and functionality to the operator. The control stations shall function as a single control point, appearing to function as a single system.
- B. The McHenry County Jail (MHCJ) was constructed in 1992. The building was expanded (3rd floor build out, administration and booking additions) and remodeled in 2005-2006. The electronic security system on the second floor was retrofitted in 2010.
- C. The security system presently installed in the MHCJ consists of several subsystems that are connected to each other and controlled either automatically, or by system operators, through the touch screen control system in the Central Control Room and in local housing officer control stations. The security system on each floor operates in a standalone mode with very limited integration.
- D. The Programmable Logic Controller (PLC) is considered to be the heart of the security control system in the MHCJ. It is the PLC system that actually determines whether or not a door should be opened, based on the logic that is programmed into the system PLC. Commands to open a door can be generated by an operator through the control system, from a valid and authorized card read through the access control system, from direct activation of a field device (such as a request to exit device that is connected directly to a PLC input in the field), or through a combination of activities that meet the requirements that have been programmed into the PLC processor. The PLC controllers are used to control the existing intercom and paging system.
- E. The existing core of the control and monitoring system consists of MODICON and Square D Controllers, I/O modules, communication modules, power supplies, and module racks. All door control field devices are connected to relays and then to Square D I/O modules. Each I/O module has capacity of 32 channels. The existing Square D, SY/Max 8030 series of controllers is obsolete since 1994. All intercom and paging field devices are connected to relays and then to Modicon Quantum I/O modules. Each I/O module has capacity of 32 channels. The existing Modicon Quantum series of controllers are obsolete since May 2015. The existing PLCs communicate using Modbus Plus communication protocol. Proprietary cabling and terminators are used with a Modbus Plus network.
- F. All existing PLC system components shall be removed and legally disposed.
- G. New PLC based head-end equipment (included but not limited to CPU, Ethernet communication modules, I/O modules, power supplies, relays, etc.) shall be provided in each security equipment room. All new electronic security system head-end equipment shall communicate over new security system network.

- H. The existing network switches shall be replaced with new industrial type network switches.
- I. There are 13 existing touch screen stations and one graphic control system in the jail right now. All existing control stations are managed and administered by the server that runs SQL Server 2005. The MS SQL Server 2005 support expired in 2011. The SQL server use MS XP operating system. The MS XP operating system support ended in April 2014. Graphic User Interface (GUI) software used to interface PLC controlled devices and touch screen computers is Wonderware InTouch Version 9. Support for this version of Wonderware InTouch expired in March 2014.
- J. All existing touch screen stations, graphic control panels, and administration server shall be removed and returned to the Owner.
- K. The new system shall include 12 new touch screen stations and a new system administration station and file server for the purpose of assignment of parameters, report generation, software loading, network administration and diagnostics.
- L. The new touch screen stations shall be equipped with the latest CPU (s) and 24" HD monitors. The latest OS and GUI software shall be used.
- M. The video surveillance system in the facility is an analog system that consists of components made from various manufacturers (Bosch, Pelco, Vicon) used to display 151 existing cameras on the 15 existing video monitors. Video switching is performed via two Bosch Allegiant 8100 series video matrix switches (FM306 and RM F149). Six (6) existing DVRs manufactured by Vicon and Bosch provided recording capacity for 96 cameras.
- N. The existing analog video surveillance system shall be replaced with the new video management and recording system that will allow live video monitoring and recording of all new cameras. There will be approximately 220 new IP cameras and 23 new video monitoring stations in the jail.
- O. All existing video cameras will be replaced with new high definition IP based and high resolution cameras. All existing coax cables between new cameras and network switches shall be reused by using Ethernet over coax converters. All new cameras (new locations) will be using CAT 6 cables. All cameras will be connected to network switches. Video management server, video viewing stations and video storage will be connected via dedicated network. The IP video management and recording system network shall be arranged so each area shall operate independently and shall communicate via a 1000baseT (Giga-bit) network at a minimum to the Video Management Server. The IP Based video management system software shall provide a built-in Digital Video Virtual Matrix Switcher feature. The IP video management system shall support the ability to switch any camera in the system to any monitor in the system, either through a PC Keyboard/Mouse or a joystick controller. The Video Management System shall allow for users to be restricted via software to logical configurable groups of cameras, monitors and system operation. The Video Management System shall manage system security, functioning as a key manager for user and device authentication, and it shall route communication between all devices on large, sub-netted security networks. The Video Management System shall store and administer secure keys and shall have multi-level and user permission management.

- P. The Digital Video Storage Array will be designed for high speed; high capacity digital video storage and high performance play back applications. The storage array will be a full featured RAID 5 or RAID 6 configuration. The digital disk storage array will be of modular design to improve the serviceability of the unit and minimize downtime. The storage array will be built for the security industry's most demanding digital video storage applications providing high capacity, unlimited flexibility, and reliability.
- Q. The intercom and paging system for the jail is integrated with the door control system equipment and uses relay boards for field devices (intercoms and paging speakers) interface with Modicon PLC for control. Rauland Borg DCC 12 amplifiers for intercoms and Biamp CMA60 for paging speakers are used for audio amplification. The existing intercom and paging head-end equipment (included but not limited to switching board, amplifiers, etc.) shall be removed and legally disposed. All existing intercom stations and paging speakers shall be replaced with new equipment; the existing wiring shall be reused.
- R. New intercom and paging system field devices shall be connected to a new digital intercom system. The new digital communication controllers (DCC) and expanders shall be networked together via digital audio trunks and Ethernet data networks to form large system. New audio communication interface shall be provided at each control location.
- S. The existing electronic security network shall be upgraded and separated from any other network in the facility. The new electronic security network will be a high speed, fault tolerant, self-healing network that will allow high speed communication between all network components and devices/equipment connected to the network. The backbone of the control and monitoring system will be a dual fiber loop connecting multiple intelligent network switches configured in a fault-tolerant, self-healing network. The fault-tolerant configuration will allow redirection of data in the event of interruption of the loop. The self-healing feature will be capable of automatically redirecting data communications in the event of a failure in some part of the loop. The interaction time between system input at the control station and the activation of a field device shall not exceed 0.5 second. Similarly, the interaction time between field input device and display on the control station or interface shall not exceed 0.5 second. For group operations such as emergency release and group unlock, the interaction time between system input at control location and the activation of the last field device of a group shall not exceed ten (10) seconds.
- T. The network will be 1000Mb Ethernet based, allowing connectivity to multiple computing devices that will be part of an integrated system. Network switches will be located in each security equipment rooms. The switching devices will provide connectivity to touch screen workstations, officer workstations, programmable logic controllers, access control systems, video surveillance systems and digital intercom system.
- U. Existing field devices (included but not limited to remotely controlled/monitored doors, duress alarm pushbuttons, and light control, etc.) and their associated wiring shall be reused. Speakers and push buttons shall be replaced with new equipment. Field verify existing wires/cables integrity and replace all damaged wires/cables.
- V. The integrated system is made up of several subsystems that communicate with each other via a fault-tolerant, self-healing network. The network is Ethernet based with primary controlling systems connected to the managed network switches. The network switches will direct all communications to and from all devices connected to the systems.

1. Control of door locks, lights, receptacles, inmate phones, etc. will be managed via distributed programmable logic controllers (PLC). Programmable logic controllers will be located in each electronic security equipment room. Each is connected to the Ethernet network and is capable of stand-alone operation in the event of network connection failure.
 2. The intercom switching system will be a digital intercom system with software based configuration, fault tolerant design, and rugged construction. The system is integrated to control stations via the electronic security network, allowing intercom functions to occur between each control station and their assigned remote intercom stations and speakers.
 3. New Touch screen control stations will replace all existing touch screen stations. Control of all electronic security devices in the existing facility shall be via touch screen control system. Touch screen control stations will be connected to the Ethernet network. The touch screen control system shall be configured to allow control transfer between the stations so that any touch screen station in the facility can control and monitor entire facility.
 4. The existing video surveillance and recording system shall communicate to electronic control system (PLC and TS) to allow systems integration.
- W. The facility is to be provided with a Touch Screen Control and Management System for facility wide control and monitoring functions. This subsystem shall also provide system administration, archival, database management, and report generation. Touch screen stations shall be provided at the locations shown on the ES5 series of drawings. The system shall be provided with function based graphics that support efficient operation of the facility, and task group management that allow for balancing the workload between operators. All touch screen control stations in the facility will be connected to the Electronic Security Network which provides Ethernet connectivity for future technology upgrades and expansion. The system consists of new touch screen control stations, hand-held controllers, an administration station, and a file server.
- X. All security systems shall be powered from the emergency power systems with additional backup from uninterruptible power systems for all components other than electrically control door locks, sliding doors, overhead doors, and similar motor or solenoid loads. The UPS backup shall be used for a minimum of 10 minutes at full connected load. The existing UPS circuits shall be reused.
- Y. All contractor provided hardware (including but not limited to CPUs, IP cameras, monitors) and software shall be the latest available products on the market at the date of the project implementation and no more than 6 months prior to the system installation.
- Z. All hardware (including but not limited to CPUs, IP cameras, monitors) and software proposed by the electronic security system integrator will be mutually agreed upon at the time of implementation and no more than 6 months prior to the system installation.
- AA. Existing laminate casework and solid surface countertops shall be modified to accept new systems and equipment. In several locations, new laminate casework and countertops shall be installed.
- BB. Modifications to the existing power distribution system shall be made as necessary to accommodate new systems and equipment.
- CC. Modifications to the existing HVAC system in Central Control and the adjacent Equipment Room shall be made to separate the heating/cooling systems of each room.

THIS PAGE IS MANDATORY

BID FORM

Base Bid

We have examined the Contract Documents for the proposed Electronic Jail Security System Upgrade as prepared by Wold Architects and Engineers, Palatine, Illinois, and the conditions affecting the work.

In accordance therewith the undersigned proposed to furnish all labor and materials for Construction as set forth in the Contract Documents, including Addenda Nos. _____ issued thereto.

I agree to complete the Project by May 31, 2017 _____

The Bidder agrees to perform all work including General, Mechanical and Electrical Construction for the Base Bid Sum of:

_____ Dollars \$ _____

Alternates

1. The Bidder agrees to add to or deduct from the Base Bid Sum the following amounts to perform the alternate work described in Section 01 23 00, including all associated costs.

- a. Alternate No. 1 – Wireless Clock System

Add / Deduct _____ Dollars \$ _____

BID BOND INCLUDED _____

PERFORMANCE BOND INCLUDED _____

EXCEPTIONS to the BID _____

THIS PAGE IS MANDATORY

REFERENCES

List three (3) references that you have done similar work, service or supplied similar products to within the last twelve (12) months (Only correct contact names and phone numbers will be acceptable).

Entity:

Address:

City, State, Zip Code:

Telephone Number:

Contact Person:

Entity:

Address:

City, State, Zip Code:

Telephone Number:

Contact Person:

Entity:

Address:

City, State, Zip Code:

Telephone Number:

Contact Person:

THIS PAGE IS MANDATORY.

**RUBBER STAMPED, FAXED, COPIED, OR TYPED SIGNATURE
WILL DISQUALIFY YOUR BID MUST BE AN ORIGINAL
SIGNATURE**

CERTIFICATIONS

Vendor certifies that it has not been barred from contracting with a unit of State or local government as a result of a violation of Section 33E-3 or 33E-4 of the Criminal Code of 1961, as amended. _____ Yes _____ No

Vendor certifies that it is aware that all contracts for the Construction of Public Works are subject to the Illinois Prevailing Wage Act (820 ILCS 130/1-12) _____ Yes
No

Under penalties of perjury, I certify that _____ is my correct Federal Taxpayer Identification Number. I am doing business as a (please check one):

- | | |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------|
| <input type="checkbox"/> Individual | <input type="checkbox"/> Real Estate Agent |
| <input type="checkbox"/> Sole Proprietorship | <input type="checkbox"/> Government Entity |
| <input type="checkbox"/> *Partnership | <input type="checkbox"/> Tax Exempt Organization
(IRC 501(a) only) |
| <input type="checkbox"/> **Corporation | <input type="checkbox"/> Trust or Estate |
| <input type="checkbox"/> Not-for-Profit Corporation | |
| <input type="checkbox"/> Medical and Health Care
Services Provider Corporation | |

*State full names, titles and addresses of all responsible principles and/or partners below;

Name: _____ Title: _____

Address: _____

Name: _____ Title: _____

Address: _____

Name: _____ Title: _____

Address: _____

Name: _____ Title: _____

Address: _____

Name: _____ Title: _____

Address: _____

If needed please submit any additional sheets.

THIS PAGE IS MANDATORY.

SIGNATURE PAGE

**RUBBER STAMPED, FAXED, COPIED, OR TYPED
SIGNATURE WILL DISQUALIFY YOUR BID MUST BE
AN ORIGINAL SIGNATURE**

PROPOSER'S CERTIFICATION

I have carefully examined the Bid, Scope of Work, Specifications, and any other documents accompanying or made a part of this Bid.

I hereby propose to furnish the goods or services specified in the Bid. I agree that my proposal will remain firm for a period of up to 120 days in order to allow the County adequate time to evaluate the qualifications submitted.

I verify that all information contained in this proposal is truthful to the best of my knowledge and belief. I further certify that I am duly authorized to submit this Bid on behalf of the firm as its act and deed, and that the firm is ready, willing, and able to perform if awarded the contract.

I further certify, under oath, that this proposal is made without prior understanding, agreement, connection, discussion, or collusion with any other person, firm or corporation submitting a proposal for the same product or service. No officer, employee or agent of the County of McHenry or any other proposer is interested in said proposal and that the undersigned executed this Proposer's Certification with full knowledge and understanding of the matters therein contained and was duly authorized to do so.

**State of Incorporation _____

(Individual - Partnership - Company - Corporation)

(Business Address)

(City, State and Zip Code)

(By Printed Name and Signature)

(Title)

(Witness Signature)

(Title)

(Telephone No)

(Fax No.)

(Date)

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