

## **4.0 EVALUATION CRITERIA AND FACTORS**

4.1 The award of the contract shall be made to the responsible offeror, whose proposal is determined to be the best evaluated offer resulting from negotiation, taking into consideration the relative importance of price and other factors set forth in the Request For Proposals in accordance with Vernon's Texas Code Annotated, Local Government 262.030.

The Evaluation Committee will review all proposals received by the Opening date and time as part of a documented evaluation process. For each decision point in the process, the County will evaluate contractors according to specific criteria and will elevate a certain number of contractors to compete against each other. The proposals will be evaluated on the following criteria.

The County will use a competitive process based upon "selection levels." The County recognizes that if a contractor fails to meet expectations during any part of the process, it reserves the right to proceed with the remaining contractors or to elevate a contractor that was not elevated before. The selection levels are described in the following sections.

### **Level 1 - Conformance with Mandatory Technical Requirements**

Criteria assessed during Level 1:

- Five years' experience installing detention controls
- Five years' experience installing surveillance systems in detention facilities
- Five years' experience installing Bosch surveillance systems

The first part of the elevation process is to validate the completeness of the proposal and ensure that all the RFP guidelines and submittal requirements are met. Those offerors who do not meet all the requirements for the RFP may, at the discretion of the County, be contacted to submit the missing information within two business days. Incomplete or noncompliant RFPs may be disqualified.

### **Level 2 – Detailed Proposal Assessment**

The Evaluation Committee will conduct a detailed assessment of all proposals elevated to this Level. Criteria evaluated in Level 2:

- 10% Work Plan and Schedule
- 10% Warranty/Maintenance
- 20% Qualifications of Firm
- 20% References/Comparable Experience
- 40% Cost

It is anticipated that no more than three contractors will advance to Level 3 but Collin County reserves the right to adjust the number as necessary.

### **Level 3 –Best and Final Offer**

Offerors who are susceptible of receiving award will be elevated to Level 3 for Best and Final Offer. Offeror will be asked to respond in writing to issues and questions raised by the County as well as any other cost and implementation planning considerations in the proposal, and may be invited to present their responses on-site. Proposals will be re-evaluated based upon Criteria in level 2.

Based on the result of the Best and Final Offer evaluation, a single offeror will be identified as the finalist for contract negotiations. If a contract cannot be reached after a period of time deemed reasonable by the County, it reserves the right to contact any of the other contractors that have submitted proposals and enter into negotiations with them.

## **5.0 SPECIAL CONDITIONS AND SCOPE OF SERVICES**

5.1 Authorization: By order of the Commissioners' Court of Collin County, Texas sealed proposals will be received for Juvenile Detention Facility Touchscreen and Camera System Upgrade.

5.2 Intent of Request for Proposal: Collin County's intent of this Request For Proposal (RFP) and resulting contract is to provide offerors with sufficient information to prepare a proposal for equipment and installation for Juvenile Detention Facility Touchscreen and Camera System Upgrade.

5.3 Term: Provide for a contract commencing on the date of the award and continuing until project is complete.

5.4 Pre-Proposal Conference: A **mandatory** pre-proposal conference will be held on Thursday, January 7, 2016 at 1:00 p.m. at Collin County Juvenile Detention, 4700 Community Ave., McKinney, TX 75071. It is the offeror's responsibility to review the site and documents to gain a full understanding of the requirements of the RFP. All contractors desiring to submit a proposal should have a representative at the pre-proposal conference; contractors that do not attend the pre-proposal conference shall not be considered in the evaluation for award of a contract per Texas Local Government Code 262.0256.

5.5 Funding: Funds for payment have been provided through the current budget. State of Texas statutes prohibit the County from any obligation of public funds beyond the fiscal year for which a budget has been approved. Therefore, anticipated orders or other obligations that rise past the end of the current Collin County fiscal year shall be subject to budget approval.

5.6 Completion/Response Time: Contractor shall place product(s) and/or complete services at the County's designated location within the number of calendar days according to the schedule proposed by offeror in section 6.5.

5.7 Delivery/Setup/Installation Location: Locations for delivery and installation will be stated on the Collin County Purchase Order(s). Delivery shall include assembly, setup and installation and shall be included in proposal. Below is the address for work to be completed.

Collin County Juvenile Detention  
4700 Community Ave.  
McKinney, TX 75071

5.8 Samples/Demos: When requested, samples/demos shall be furnished free of expense to Collin County.

5.9 Background Check: All Contractor employees that will be working on site or by VPN shall pass a background check performed by Collin County before any work may be performed.

5.10 Subcontractors: Offeror shall state names of all subcontractors and the type of work they will be performing. If an offeror fails to specify a subcontractor, then he shall be deemed to have agreed that he is fully qualified to perform the contract himself, and that he will fully perform the contract himself.

No offeror whose proposal is accepted shall (a) substitute any subcontractor, or (b) permit a subcontract to be voluntarily assigned or transferred or allow it to be performed by anyone other than the original subcontractor listed in the original proposal without approval in writing from the Collin County Purchasing Department.

The successful offeror further agrees that Collin County and its agents, servants and employees shall not be liable for any loss or damage resulting from personal injury, physical loss, harassment of or discrimination against employee or other violations of the provisions of this contract occasioned by the acts or omissions of the successful offeror's sub-contractors, their agents or employees. The indemnification provisions of this contract shall apply to all sub-contractors.

5.11 Bonds: In accordance with V.T.C.A. 2253.021, a governmental agency that makes a public work contract with a prime contractor shall require the contractor, before beginning work, to execute to the governmental entity a Payment Bond if the contract is in excess of \$25,000.00 and a Performance Bond if the contract is in excess of \$100,000.00. Such bond shall be in the amount of the contract payable to the governmental entity and must be executed by a corporate surety in accordance with Section 1, Chapter 87, Acts of the 56<sup>th</sup> Legislature, Regular Session, 1959 (Article 7.19-1 Vernon's Texas Insurance Code).

5.12 Wage Scale: In accordance with The Texas Government Code, Title 10, Chapter 2258, Prevailing Wage Rates, the general prevailing wage rate has been determined for this locality for the craft or type of workman needed to execute work of a similar character of the project listed herein. The Contractor shall pay the prevailing wage rate in this locality to all his/her employees and subcontractors performing work on this project, and in no event shall the Contractor pay less than the rate shown in the following schedule. Reference Attachment B for current prevailing wage rates.

### 5.13 PROPOSAL SCHEDULE

RFP released:	<b>December 22, 2015</b>
Pre-Proposal Conference:	<b>January 7, 2016 at 1:00 p.m.</b>
Deadline for submission of contractor questions:	<del><b>January 19, 2016 at 5:00p.m.</b></del> <b>February 5, 2016 at 5:00p.m.</b>
Proposals due:	<del><b>January 28, 2016 at 2:00p.m.</b></del> <b>February 11, 2016 at 2:00p.m.</b>
Award of Contract:	<b>March 2016</b>
Effective date of contract:	<b>Upon award</b>

5.14 Purpose/Scope Of Work: Collin County is looking to upgrade the existing Juvenile Detention Facility Door Monitoring and Control System to a Touchscreen System and upgrade the existing Surveillance System CCTV Cameras and Monitors.

#### 5.15 Project Requirements and Clarifications:

5.15.1 The staging for the project will take place per each CLUSTER, one at a time, from start to completion. Once a POD is completed, work on the next POD can begin. Repeat this process until the project is complete.

5.15.2 Contractor is responsible for all field verification of actual site conditions and dimensions. Verify quantity of areas that require sealant and tops in this scope. Approximate dimensions listed are provided for information purposes only and are not intended to be a materials list. The contractor is responsible for verification of scope, labor and materials prior to submitting a proposal.

5.15.3 All screws, anchors, sealants and fasteners shall be detention grade to match the existing finishes.

5.15.4 A fulltime escort by a Facilities Technician or Detention Officer shall be required while contractor is working onsite.

5.15.6 County will provide paint codes and manufacturer for the contractor to purchase the paint.

5.15.7 Contractor shall not have onsite storage or office space available.

5.15.8 Contractor shall be responsible for removing and hauling away all trash and removed materials daily. Contractor shall not use County dumpsters.

5.15.9 All work shall be scheduled with the following time and day restrictions for the required escorts: Monday through Friday from 7:00 AM to 4:00 PM (With one hour mandatory break).

5.15.10 All areas where work is performed shall be cleaned to the previous condition.

5.15.11 Collin County Employees shall not sign for or be responsible for material/equipment that is drop-shipped to the job site by the contractor.

5.15.12 Contractor shall provide minimum of one foreman level personnel onsite at all times to ensure that contract requirements, project coordination and project quality control are met.

5.15.13 A tool list shall be required each time contractor enters the facility. A job box may be left onsite if the box can be locked.

5.16 Touchscreen System Upgrade Requirements:

5.16.1 The Collin County Juvenile Detention Facility has four detention control panel locations which are used to control and monitor the detention doors, building intercoms and utility controls. The contractor shall remove all existing detention controls and related control panels; replace the four (4) work station counter tops with phenolic counter tops; remove two (2) base cabinets from Building Control; and then replace the current detention controls, door control boards, intercom boards and other controls with five (5) Touchscreen Control Stations.

5.16.2 The contractor shall provide all necessary labor, equipment, components, wiring, software and license to provide a complete and functional system.

5.16.3 The contractor shall use the existing wiring to each location and install new door and intercom boards for all devices. The contractor shall reroute the wiring for the devices and controls while installing the new counter tops.

5.16.4 The integrator shall provide a complete working touchscreen and software interface that will form a seamless, integrated human machine interface (HMI) with the rest of the Security Electronics System.

5.16.5 The touchscreen and software shall provide the owner with a flexible, networked, data-logged system for the control and monitoring of the facility. The system shall be a “software” solution allowing for ease of adapting over time as the facility’s needs change.

5.16.6 The touchscreen controls (TS) shall be networked together and will allow for Take Over, Transfer and Local control of the areas from the other stations in the following locations:

5.16.6.1 Building Control – two (2) new TS Control Station (second unit can be used for spare if required)

5.16.6.2 Housing Cluster II Control – one (1) new TS Control Station

5.16.6.3 Housing Cluster III Control – one (1) new TS Control Station

5.16.6.4 Housing Cluster IV Control – one (1) new TS Control Station

5.16.7 Contractor shall provide floor plan drawings showing locations of all equipment and spreadsheets with termination for all equipment for the project records.

5.16.8 Products-System Requirements

5.16.8.1 Acceptable Manufacturers: Open to qualified participants who have demonstrated, produced, and have a history of developing products that meet the software requirements of this specification and can meet the project specifications and Owners requirement.

5.16.8.2 Acceptable PLC's shall be from a manufacturer commonly used in the correctional industry, non-proprietary and with readily available parts/modules including but not limited to the following:

5.16.8.2.1 Omron CS-1 Series

5.16.8.2.2 GE Fanuc 90-30 Series

5.16.8.2.3 Allen Bradley PLC5 Series

5.16.8.2.4 Square D Modicon Series

5.16.8.3 Acceptable Audio/Intercom System shall be from a manufacturer commonly used in the correctional industry, non-proprietary, with readily available parts and compatible with existing wiring and field devices including but not limited to the following:

5.16.8.3.1 Tech Works ICA/ICR Series

5.16.8.3.2 Harding Instrument Microcomm DXL

5.16.8.3.3 Stentofon Alphacom

5.16.9 Touchscreen Control Stations

5.16.9.1 Touchscreen Monitors:

5.16.9.1.1 Medical grade, LCD, 24 inch, black, high resolution (1920 x 1080), non-interlaced with a 60, 75 Hz refresh rate and a dot pitch of 0.31

mm maximum, ELO Model 2014 LM, or Collin County approved equal.

5.16.9.1.2 Medical grade, LCD, 19 inch, black, ELO Model 1928L, or Collin County approved equal.

5.16.9.1.3 Touchscreens shall be of the iTouch or IntelTouch Plus technology. Mean time between failures for the controller shall be greater than 50,000 hours and a touch life in any one location of 20 million touches. Connection to PC shall be USB.

5.16.9.1.4 The touchscreen driver shall allow the touch area to activate upon release from the touchscreen.

5.16.9.1.5 Touchscreens shall operate simultaneously with a mouse so that the user can use either the touchscreen or the mouse without reconnections, switches, or system re-boot.

#### 5.16.9.2 Touchscreen Control Computer Stations:

5.16.9.2.1 Computers shall be at a minimum, 100% IBM compatible, Intel Core i3 Dual Core Processor 3.30GHz 3MB, 16X DVD+/-RW SATA, 2 GB Ram DDR3 1600Mhz, 250 GB hard drive, 8 USB ports, 10/100/1000 Gigabit Ethernet, and running Windows 7 Professional 64Bit.

5.16.9.2.2 The computer shall also be installed with an audio card for the Digitized Voice System (DVS).

5.16.9.2.3 Shall include wireless mouse and keyboard.

#### 5.16.9.3 Other Touchscreen Equipment:

5.16.9.3.1 Intercom audio control relay boards-twenty-five (25) relays each

5.16.9.3.2 Audio Amps

5.16.9.3.3 VoIP audio modules-door control relay modules

5.16.9.3.4 PLC control modules and license

5.16.9.3.4.1 Includes power supplies, inputs, outputs, net card backplane, and cables.

5.16.9.3.5 Lantronix comm modules-terminals, relays, fuses

5.16.9.3.6 Gigabyte network switch-eight (8) and twenty-four (24) port

switches.

5.16.9.3.7 Data cable and wiring-audio cable, power supplies, door control and audio.

5.16.9.3.8 Contractor shall provide all necessary equipment, components, wiring, software and license to provide a complete and functional system.

5.16.9.3.9 Reference Attachment F-Touchscreen Equipment List.

#### 5.16.9.4 The Touchscreen Networking:

5.16.9.4.1 The touchscreen stations shall be connected through a network that complies with requirements for IEEE 802.3ab for 100/1000BaseT Ethernet. 100/1000BaseT is required so that other members of the network are not subject to problems associated with wiring or Ethernet ports of other network members including access to on screen video display from the Vicon-Net system.

5.16.9.4.2 The PLC shall also be a member of the network and shall communicate directly to all control stations at a minimum standard of 10/100BaseT. All touchscreens shall communicate directly to the each PLC independently of one another, and the failure of no combination of touchscreen(s) shall cause any other to not function. Server configurations where one computer serves as the communications server to the PLC or where a local touch screen can only communicate to the local PLC in the event of a rollover are not acceptable.

#### 5.16.10 Touchscreen Configuration Software

5.16.10.1 The touchscreen configuration software shall be non-proprietary. It also shall be developed using a standard Windows based industrial software package that is regularly used in industrial applications and 100% compatible with the industrial PLC specified. Software license must provide for the highest level of tag count to allow for upgrades and expansions at a later date. Tag counts that restrict the number of tags based on the size of the project thus limiting the reusability and expandability will not be accepted.

5.16.10.1.1 Wonderware InTouch 2012, or Collin County approved equal, 60K tag count.

5.16.10.2 The configuration or development software shall be compatible with the PLC programming software. The configuration software manufacturer shall have the facilities and a regular schedule for training so those individuals who receive the training will have the ability to develop or modify the touchscreen configuration. The touchscreen station is for operator interface only. All control

functions are to be controlled by PLC software.

5.16.10.3 Passwords and User Levels: The touchscreen shall use a combination of username and passwords and be capable of ninety-nine (99) different Users' Levels. The owner shall have an administration password that enables the owner the ability to alter passwords and password levels. The administration password shall be able to be changed by the owner. The user levels allow or not allow operators certain abilities on the control station. Some of these abilities are described in this specification, others will be determined during the initial software meetings with the owner. The touchscreen software shall allow for changes to the user password and then automatically sync to the rest of the system including the system logger. Systems that require a Windows domain server to manage users will not be accepted.

5.16.10.4 Touchscreen Integration: The touchscreen is only an operator interface to the system. No control logic is allowed on/in the touchscreen computer. All control logic is to reside and be performed in the PLC. Touchscreen stations and graphic control panels shall be able to control the same points and be able to be integrated into the same control system.

5.16.10.5 All system functions currently incorporated into the system shall be retained in the system after upgrades in addition to those listed in this specification.

#### 5.16.11 Software Feature Set:

5.16.11.1 Door Control: Door control logic shall live in and be authorized by the PLC not the HMI. The icons shall be on the HMI but the HMI programming has to refer to the PLC for decision and actions. The HMI only acts as a "window" into the PLC for door control. This is for security and reliability purposes. Door control shall also be integrated with the touchscreen stations to operate in the following manner.

5.16.11.1.1 Unlock: During an Unlock function, all doors shall be configured to automatically relock after a programmable amount of time. All swinging doors shall automatically perform in this manner during an Unlock function. All sliding and overhead doors shall also be configured to automatically close after a programmable amount of time if so desired by the owner. These programmable times are dynamically adjustable on the fly by the owner.

5.16.11.1.2 Hold Open: During a Hold Open door function, all swinging doors, regardless of the type of locking hardware, will remain unlocked until commanded to lock. Once selected to the Hold Open mode the icon will be orange indicating that door is in Hold Open mode. Only solenoid type locks are allowed to be continually powered for the Hold Open

function. All full cycle locks with mechanical latch back features will first be provided with a momentary pulse long enough to unlock the door and latch it into the mechanical latch-back position; then when the door is opened and then closed, the PLC will sense when the door re-secures and then will unlock it again. The PLC shall be programmed to interface to any lock in order to satisfy the Hold Open function as described.

5.16.11.1.3 Sliding/Overhead Door Open: When opening a sliding or overhead door, the PLC, through interposing mechanical relays, will energize the relay to power the door open until it senses the open limit switch or until a programmable amount of time that is longer than the time it takes for the door to typically open. When the door open limit switch is sensed or the programmable time has elapsed, then the PLC will de-energize the interposing relay.

5.16.11.1.4 Sliding/Overhead Door Close: When closing a sliding or overhead door, the PLC, through interposing mechanical relays, will energize the relay to power the door closed until it senses the close limit switch or until a programmable amount of time that is longer than the time it takes for the door to typically close. When the door close limit switch is sensed or the programmable time has elapsed, then the PLC will de-energize the interposing relay

5.16.11.1.5 Sliding/Overhead Door Stop: When opening or closing a sliding or overhead door, a stop command sent to the PLC will stop the door(s) in mid travel. Doors that are designed for a stop circuit shall have an interposing stop relay wired. When the stop command is issued, this relay will energize and stop the door. For doors that do not have a stop circuit, the stop command will de-energize the open and close relays. For doors that do not have a hardwired electrical interface external to the PLC (local pushbutton station); then if this door is not commanded open or closed, then the stop command shall be continuously issued by the PLC.

5.16.11.1.6 Sliding/Overhead Door Dwell: A sliding or overhead door shall be able to be reversed by the control officer without forcing the officer to first stop the door. The PLC logic shall determine that the door is being requested to be reversed and shall stop the door at that moment for a programmable amount of time. After a sufficient dwell period, the door will reverse direction and continue until it completely reaches the open or close limit switch. This dwell time shall be programmable.

5.16.11.1.7 Sequencing Groups of Doors: When more than one door at a time is being unlocked, then the doors shall be sequenced such that the doors simultaneously causing load the power supply remain at an acceptable level so that fuses, breakers and the power supply is not overloaded. For solenoid type doors, this period of time is during the

inrush of the solenoid, for motorized locks this period of time is until the lock has completed its cycle, and for sliding doors this period of time is one fourth of its cycle time. For locks that require power to lock, the PLC shall also sequence the locking action. In any case, the system must be programmed to handle all emergency and group unlocking without failure of the available power supply.

5.16.11.1.8 Door Breaches, Openings and Closings: Each controlled and monitored door shall be configured to have the ability to alarm or have a "Breach Alarm". A violation occurs when a door is opened and/or unlocked by some means other than the PLC. If the owner determines that a specific door not Breach, then that door shall be configured to either display status only or to display status and to sound a short warning. All Breaches, Breach silencing, Breach resetting, changes of state of door switches, doors securing, and doors becoming unsecure shall be recorded separately to the Reporter/Logger system.

5.16.11.1.9 Door Switch Debounce: Logic shall be programmed into the PLC so that the door must be secure for a sufficient amount of time to avoid a switch-bouncing problem. This time shall be able to be configured.

5.16.11.1.10 Emergency Evacuation: Any door shall be configured to be part of any emergency evacuation group. When Emergency Evacuation is activated for the group then each door in the group will unlock as explained in Sequencing Groups of doors.

5.16.11.1.11 Group Unlocking: Any door shall be configured to be part of any group for group unlocking and locking doors selected to the group mode shall be show with a blue outline around the door icon. Selecting the Group Unlock icon and then the ON icon will open only the doors selected to that group. Doors can be removed from the assigned group by re-selecting them, while in the group define mode, which will toggle the blue outline around the door icon to the off state.

5.16.11.1.12 Isolate: Any door and any keypad/Proxy reader to a door shall be configured to be isolated. Isolating a door keeps that door from being unlocked. Isolating a keypad keeps the keypad from unlocking a door. Isolate doors, keypads or proximity reader stations shall have a yellow "/" on the icon. Any isolation or removal of isolation for a door shall be recorded to the Reporter/Logger.

5.16.11.1.13 Shunt: Any door shall have the ability to be shunted. Shunting a door prevents the door from causing a breach alarm when opened in a means other than through the PLC. Selecting the Shunt function button will cause a flashing green outline to appear around door

candidates.

5.16.11.1.14 Interlocks: Where two or more doors with electric hardware form a sallyport or where interlocks between hardware sets are indicated on the plans or specs, or will be specified by the Owner at the time of graphic map submissions, the operation of the individual hardware sets shall be as follows: The controls will allow only one of the hardware sets to be in the non-secured condition at any given time unless the interlock override function is activated. These doors shall be indicated on the screen with a yellow outline around the door icon. The corrections officer must press the interlock override pushbutton prior to unlocking a door to defeat the interlock. Logic shall also be incorporated such that the interlocks cannot be defeated by pressing two door pushbuttons simultaneously on a graphic panel.

5.16.11.2 Communications Control: Communications control shall be integrated with the touchscreen controls to operate in the following manner. Each touchscreen shall have its own dedicated intercom amplifier. Systems that share a common intercom amplifier and/or intercom buss and show BUSY, when in use, will not be accepted.

5.16.11.2.1 Intercom Communications: Communicating to an intercom staff station location from a control location shall cause a PLC output to energize a sound card relay and connects the talk-back amplifier to the sound card's audio bus while also placing the control station's audio speaker onto the talk-back amplifier's speaker output. The control location then automatically monitors the intercom location. When the control officer presses push to talk, then the intercom staff station speaker shall be able to hear the control officer. Control stations shall be able to call other control stations utilizing the existing talk back amplifier configuration.

5.16.11.2.2 Paging: Page zone selection shall be configurable. Each intercom staff station shall be configurable to be included in any paging zone. The system shall have the ability to monitor paging speakers as well as staff stations.

5.16.11.2.3 Isolate: Any intercom staff station can be configured to be isolated in software. When the pushbutton on an isolated staff station is pressed, then the audible annunciation at the officer's control station shall automatically be suppressed for that station. Visual annunciation, though, shall occur at the officer's control station. Isolate intercom stations shall have a yellow “/” on the intercom icon.

5.16.11.2.4 Isolate timeout: Each intercom will have an independent timer that can be set so that it will automatically remove the isolate feature after a user adjustable time period.

5.16.11.2.5 Isolate reminder: Each intercom will have independent timer that can be set so that it will send a reminder notification to the touchscreen queue that an intercom is still set to the isolated mode. This timer will start again each time it is acknowledged until the isolate setting is removed from the intercom.

5.16.11.2.6 Spot/Assessment Monitor: When communications are established with a staff station, the camera in the area around the staff station shall be displayed on the Spot/Assessment Monitor or on screen display video window. When communications are terminated, the Spot/Assessment Monitor will display the last camera viewed. The cameras that are displayed shall be configurable for each alarm.

5.16.11.2.7 Intercom call-in delay: Provide a user changeable timer to delay an intercom push button before it is sent to the touch screen.

5.16.11.2.8 Intercom alarm: User settable functionality for a maintained intercom button press to be represented as an alarm.

5.16.11.3 Video Control: Video control shall be integrated with the touchscreen controls to operate as an integrated system.

#### 5.16.12 Software Operation:

5.16.12.1 Functions: The touchscreen consists of a combination of device icons and function icons.

5.16.12.1.1 The device icons are the door icon, the intercom icon, the camera icon, the page icon, utilities icon, alarm icons, card reader icons, watch tour, call button icons, emergency icons and group icons.

5.16.12.1.2 The function icons include unlock, stop, hold open, isolate, utilities, interlock override, select, device notes, device history, playback, emergency evacuation, disable panel, silence, and reset.

5.16.12.1.3 Pressing any of these icons will result in the DVS announcing the action performed.

5.16.12.1.4 The pop up location in relation to the icons will have the following general requirement icons located in the first quadrant will align with the lower right corner, second quadrant will align with the lower left corner, third quadrant will align with the upper right corner and the fourth quadrant with the upper left corner.

5.16.12.1.5 In addition to the device functions, there will be several

administrative functions as described later in this section.

5.16.12.2 Door Control: Pressing the Door Icon shall initiate a function popup specifically for that device. The popup will auto locate so that one corner of the pop up touches the corner of the device icon as described in Section 5.16.12.1. Unlock, Hold Open, Stop, Local Access, Egress, Group, Notes, History and Isolate are possible menu functions that act with two keystrokes to make the door operate the first key stroke opens the function option popup the second selects the function. Two keystroke operations for unlocking a door are critical so that doors cannot accidentally be unlocked to provide optimum feedback system must function in this order; device select>DVS annunciation>function display>function select. Provide a Cancel button on the function popup so the operator can back out of the operation up until the very last key stroke. The keystrokes required to open an overhead, sliding, or swinging door are the same. When the corrections officer presses the door icon the DVS will announce the actual name of the door as defined by the owner. Then within 3 seconds, press the function icon on the popup at the location of the door and the DVS will announce the function. After the door has unlocked for a specified amount of time, it will then relock automatically. To stop the motion of a sliding, or overhead, door, the corrections officer will press the door icon and the STOP function. Using the Hold Open feature will unlock the door and keep it electrically unlocked until the corrections officer presses the door icon only. The respective door function popup remains open during the 3 second selection process. The door function popup menu will intuitively adjust to display only those features available to that specific door so that the operator knows what option are available.

5.16.12.2.1 Door Control Indicators: The door icon and a Door Status Icon are located on the graphic at each controlled door. The Door Status Icon is a graphical representation of the door. If it is a swinging door it depicts the door swing, and if it is a sliding door it displays the door as secure or fully open.

5.16.12.2.1.1 The door icon is black/grey and shown closed when the door is locked and secured.

5.16.12.2.1.2 The door icon is red/white and is shown closed when the door is powered but the lock status switch, the bolt position switch, and the door position switch are still indicating that the door is secure.

5.16.12.2.1.3 The door icon is red/white and is shown open when then door is powered and open.

5.16.12.2.1.4 The door icon is red/white and is shown open when then door is not powered but is open.

5.16.12.2.1.5 The door icon flashes red/white and shows the current status of the door if the door is violated or opened manually.

5.16.12.2.2 Interlocked Doors are bordered around their icons in yellow when a door in a designated interlock group is unsecured. If an interlocked door is attempted to be unlocked, an Information Dialog box will appear indicating the door cannot be opened because of the interlock condition.

5.16.12.2.3 The Reporter/Logger records to disk all openings, unlocking, re-locking, secure actions, door position, lock status, violations, violation silencing, violation resetting, interlock overrides. The logging should be such that the reporting can distinguish between standard unlock, unlock via interlock override, unlock via group, unlock via ERM, unlock via valid read for all variations of operation that can unlock the door.

5.16.12.3 Isolate Door: Electrically controlled doors, or doors that are also controlled by field-mounted keypads or proximity card readers, can be isolated such that they cannot be opened. The corrections officer first selects the door icon and then presses the door isolate function. The door icon will be displayed with a yellow “/” on the icon. Repeating the process on an Isolated Door reverses the condition and returns the door to normal control.

5.16.12.3.1 Door Isolate Indicators: The door icon will have a yellow “/” marked through it indicating that the door cannot be unlocked. Violations and the Door Status Icon will still be shown.

5.16.12.3.2 Attempting to unlock an isolated door will cancel the command and the door will remain locked.

5.16.12.3.3 Isolated Doors are reported by the Reporter/Logger during daily reports. Changing the state of Isolated Doors is recorded to disk.

5.16.12.4 Communicate: Establishing audio communications from the touch screen is accomplished by simply pressing the Intercom icon at the location of the intercom station. There shall be an Intercom icon for each intercom or staff station. The audio is now connected to the remote station and the Intercom icon is yellow. The video of cameras viewing that area are now shown on the Spot/Assessment Monitor(s), and audio is established; while the camera symbols that cover that intercom station are now cyan. If no camera is viewing that location, audio will be connected without video. Repeating the operation will cancel the call. Connecting to another station will automatically cancel the previous connection. Pressing the Push-to-Talk allows the corrections officer to talk to the station. Press and holding the intercom icon shall initiate a function popup specifically for that device. The pop up will auto locate so that one corner of the popup touches the corner of the device icon as described in Section

5.16.12.1. The following functions shall be available for the intercom, connect, and isolate, notes and history.

5.16.12.4.1 The Intercom icon is used to show the state of the intercom call.

5.16.12.4.1.1 If the call button, located on the staff or inmate intercom station, is pressed, and the call has not been acknowledged, the Intercom icon flashes yellow and the DVS will sound a digitized tone until the call is connected.

5.16.12.4.1.2 If the call has been answered, the Intercom icon will be solid yellow, and all cameras called up to follow the intercom will be solid cyan. If another call is incoming while the first is being serviced, that Intercom icon flashes and the DVS will softly announce the ringing tone.

5.16.12.4.2 Intercom System Recording: All audio communications whether analog or digital will be recorded by conversation. Each conversation will be identifiable with the intercom connected to, the master station making the connection, the operator logged into that station and the time and date the conversation took place. All intercom masters, both stationary and mobile, that answer intercom calls will be recorded in this manner. Recordings must be searchable by date time, location, operator, master station, intercom id. Playback of audio must be shall be on a standard format compatible with the Windows operating environment.

5.16.12.4.3 The Reporter/Logger records any intercom call activity, including when the call was placed, answered, isolated on, isolated off and association with any audio recording clips.

5.16.12.5 Video: Establishing video (CCTV) communications from the control screen is accomplished by pressing the Video icon. Pressing the Video icon on the control screen at the location of the camera will cause the icon to be solid cyan and the CCTV image to be displayed on the Spot/Assessment Monitor(s). Pressing a different Video icon will cause that camera to be active and will cancel any others. Press and holding the camera icon shall initiate a function popup specifically for that device. The pop up will auto locate so that one corner of the popup touches the corner of the device icon as described in Section 5.16.12.1. The following functions shall be available for the camera, view notes, history, playback for at least four (4) users configurable time periods.

5.16.12.5.1 The cyan Video icon on the touch screen map shows the location of the camera and has Instant video playback capabilities.

5.16.12.5.2 The Reporter/Logger shall record to disk all video activities

including association with any video recording for related cameras over time period.

5.16.12.6 Paging: This feature allows the corrections officer to select which paging zones are connected for a subsequent paging operation. The corrections officer will first press the Page icon on the screen which will open the paging channel for one-way communication.

5.16.12.6.1 Paging Groups: Provide the option at system design review for designation of paging groups where by more than one paging icon can be selected as a group.

5.16.12.7 Isolate Intercom: This feature allows the corrections officer to limit an intercom station so that no audible annunciation of the call-in is received but visual annunciation is retained. An active intercom station is shown as a solid on yellow icon. An Isolated intercom station is still accessible by the corrections officer via the Intercom and Audio features. An Isolated intercom still visually annunciates as a flashing yellow icon. Only the ringing chime is suppressed.

5.16.12.7.1 Intercom isolate Indicators: The Intercom icon shall have a yellow "/" marked through it indicating that the intercom station has been isolated.

5.16.12.7.2 A reminder.

5.16.12.7.3 The Reporter/Logger shall record to disk all communications Isolate activities.

5.16.12.8 Call Window: A portion of the touchscreen shall be allocated and used as the Intercom Queue, Active window and Alarm Queue window. Each window shall be allocated and used for the purpose of making the communications task easy for the operator. The Intercom Queue window shall contain the text names of at least five (5) incoming pending calls, the Active window contains the text name of the active intercom call, Zoom icon and Unlock and Cancel icon for the active call. This window pertains to every call assigned to the touchscreen station and is not exclusive to the intercom stations shown on the current active screen. This window will allow the operator to answer calls without having to go to a particular screen unless it is desired to do so.

5.16.12.8.1 Intercom Queue: The list of five (5) incoming pending calls designated for the particular touchscreen station shall show the owner-assigned text names for the oldest five (5) pending calls that have not been answered and in the order that they were initiated. As a call is answered, it shall be removed from the list and the list shall be automatically updated with any new incoming calls. If there are no pending calls, this list shall be blank. All incoming calls shall be logged into the Intercom Queue.

None shall be lost. The Total Call window will show the number of current calls waiting for response.

5.16.12.8.2 Call Answer icon: Each time this icon is touched, the active station will automatically cancel and the first station on the pending list will automatically connect.

5.16.12.8.3 Zoom Active icon: When this icon is touched, the touchscreen will automatically go to the screen where the answered intercom station is located.

5.16.12.8.4 Unlock icon: When communication is established with a calling intercom station, touching the Unlock icon will unlock the respective door as long as all logic rules are met.

5.16.12.8.5 Call Cancel icon: When this icon is touched, the active intercom call is disconnected.

5.16.12.8.6 Alarm Queue: The list of five (5) active alarms that can be scrolled up and down in the event there are more than five (5). Alarms are sorted in the queue by priority, date & time and silenced state. Clicking on an alarm in the queue will activate the InstaFind sequence automatically selecting current video, recorded video and screen location. Once selected the alarm may be silenced. The text in the alarm queue will show contain the words "Reset" once the alarm condition is physically cleared.

5.16.12.9 Key Map Screen: The Site screen on each touchscreen shall be allocated and used for the purpose of making screen movement tasks easy for the operator. This window shall contain the whole site plan. All screens shall be accessible with one touch of the site plan such that any screen can be accessed from any other screen with just one touch of a screen's outlined area on the site plan of the Screen Zoom icons in the navigation panel. Each control screen shall be graphically outlined on the Zoom Window.

5.16.12.9.1 Area Window: Pressing an outlined area of the site plan shall cause the touchscreen to go directly to the screen that controls the touched area. A distinctive audible sound shall annunciate when this action is performed.

5.16.12.9.2 Location Indicator: The area containing the Screen Zoom icons shall highlight the current map view so that the operator knows exactly what screen is active in relation to the whole facility. The other areas shall be gray unless pending calls or alarms are active as explained by the Pending Call Indicator and the Alarm Indicator.

5.16.12.9.3 Pending Call Indicator: When calls are pending from areas other than the current screen, and these calls are defined to be answered at a particular touchscreen station, the area of the call shall flash yellow on the Screen Zoom icons. If both an alarm and a pending call are active at the same time in an area, then the respective area shall flash red.

5.16.12.9.4 Alarm Indicator: When alarms are active from areas other than the current screen, the area of the alarm shall flash red on the Screen Zoom icons. If both an alarm and a pending call are active at the same time in an area, then the respective area shall flash red.

5.16.12.9.5 Zoom: To move to another part of the facility, the operator can simply zoom to it (if the touchscreen station is configured to do so). Zooming or paging to a new screen and the status indicators on the screen shall be instantaneous. When an alarm condition occurs in an area that is not currently displayed, the touchscreen will present this information to the operator. This information includes the status of doors in other areas, duress alarms, panic alarms, and other conditions desired by the owner.

5.16.12.10 Panel Control: Disable: Pressing this icon will immediately disable all functions of that remote control Touchscreens. Control will be transferred to Central Control.

5.16.12.11 Panel Control: Silence: Pressing this icon will silence the audible annunciators used to indicate a violated door, staff station request, or any other alarm.

5.16.12.12 Panel Control: Reset: Pressing this icon will cancel any Door Breach/Violation condition and/or any active menu. Reset does not affect communications calls.

5.16.12.13 Other Indications:

5.16.12.13.1 Provide Status or health indication for each device/icon. If a touchscreen loses communication with a field device, a red/white caution triangle shall appear on the upper left corner of the icon indicating to the operator that communication has been lost to that device. This is a “per device” feature.

5.16.12.13.2 Group control is accomplished via icons located on the touchscreen station. Group control shall be active for Door Control functions.

5.16.12.13.3 Interlocks: Where two (2) or more doors with electric hardware form a sallyport or where interlocks between hardware sets are indicated on the plans or specs, or will be specified by the Owner at the

time of graphic panel/touchscreen submissions, the operation of the individual hardware sets shall be as follows: The controls will allow only one (1) of the hardware sets to be in the non-secured condition at any given time unless the interlock bypass function is activated. The corrections officer shall use the interlock override functionality provided to defeat the interlock. When the interlock override icon is pressed, the warning dialog box will warn of the override condition and allow the operator to proceed or cancel the request. The override function shall operate on a door by door case, override functionality that allows for doors other than the specific door selected to be unlocked will not be accepted.

5.16.12.13.3.1 A yellow background behind the icon will illuminate whenever any other door of that interlock group is unlocked or unsecured.

5.16.12.13.3.2 Attempting to unlock a door that is interlocked will cause an Information Dialog box will appear indicating the door cannot be opened because of the interlock condition

5.16.12.13.3.3 The Reporter/Logger shall record to disk all interlock override activities.

5.16.12.13.4 Capability for Emergency Evacuation Operations: Located on selected touchscreens are icons labeled as Emergency Release. When pressed, a warning dialog will be displayed explaining the consequences of proceeding with the evacuation and offers directions for the operator. The operator shall be able to see all doors which will be evacuated as they will be highlighted in red. Proceeding with the Emergency Release will open all the associated doors and cause an emergency tone to be sounded at the touchscreen.

5.16.12.13.4.1 The background around the Emergency Release icon shall flash red and the DVS shall continuously sound an Emergency Evacuation tone.

5.16.12.13.4.2 All doors of the configurable Emergency Evacuation route will open. The doors that are unlocked under the emergency evacuation flash red on the door icon.

5.16.12.13.4.3 The Reporter/Logger shall record to disk all emergency release activities.

5.16.12.13.5 When the loss of AC power is detected and the PLC reverts to UPS or emergency power, an indication labeled Emergency Power shall flash and the alarm shall sound.

5.16.12.13.6 General graphics design shall be passive grey as the normal

indication with the addition of color to indicate status of an event that the system operator needs to respond to. Design should be such that the visual operator fatigue is minimized by the graphics.

#### 5.16.13 Spares:

5.16.13.1 Provide one (1) spare Touchscreen monitor and Touchscreen CPU computer completely programmed with each control location of the facility. Upon boot up of this computer the machine will figure out which station it is and automatically assume the location. This CPU shall be installed in Building Control as a secondary control station.

5.16.13.2 Provide a complete GUI (Wonderware or Collin County approved equal) license and any other software required for this machine.

#### 5.16.14 Execution:

##### 5.16.14.1 Examination:

5.16.14.1.1 Working Order: Verify that all equipment is in working order and within heat tolerances.

5.16.14.1.2 Installation: Prior to installation, provide a written summary describing how the new system and equipment will be installed while keeping the detention controls fully operational and functional in the occupied detention facility. After the installations, test all system functions and verify the equipment has been installed in accordance with all codes and complies with the Security Electronics General Section and Owner requirements.

5.16.14.1.3 Confirm and verify all equipment is in a pristine new condition with manufacturer's warranty still intact. Make sure all wiring has been tied down, labeled on each end off all terminations and dressed out to professional standards.

5.16.14.1.4 Confirm all equipment is clean, wiped off and ready for occupancy and owners use.

5.17 Countertops and Cabinets: Contractor shall demo and haul off two (2) existing cabinets and four (4) countertops and provide all labor, materials and hardware to install new phenolic countertops.

5.17.1 Remove two (2) base cabinets from Building Control.

5.17.2 Remove existing and install new Durcon, or Collin County approved equal, phenolic countertop in Building Control. The countertop square footage in Building

Control is approximately sixty-eight (68) square feet.

5.17.3 Remove existing and install new Durcon, or Collin County approved equal, phenolic countertops in each Cluster Control in Clusters 2, 3 and 4. The countertop square footage in each Cluster Control is approximately fifty-eight (58) square feet.

5.17.4 Contractor shall verify actual countertop dimensions prior to bidding.

5.17.5 Reference Attachment I-Phenolic Countertop Specifications; Attachment D-Cluster Control Desk Measurements and Attachment E-Building Control Floor Plan.

5.17.6 Contractor shall remove the existing fire panel and fire device in Cluster 4 Control and relocate to the new counter.

5.18 Option One-Surveillance System CCTV Cameras and Monitors Upgrade Requirements: Collin County is requesting pricing for two (2) options to the CCTV Cameras and Monitors Upgrade. Only one option will be awarded.

5.18.1 The County requires that the manufacturer of the surveillance camera system shall be Bosch with no substitutions allowed.

5.18.2 The existing headend cabinet and all associated camera wiring and recording equipment shall be relocated from the records room to Building Control and installed in two (2) standalone cabinets not to exceed the 42" window line of the Building Control Room.

5.18.3 There shall be sixty-five (65) fixed dome cameras installed utilizing the existing wire.

5.18.4 There shall be two (2) new exterior pendant mounted PTZ cameras installed.

5.18.5 There shall be two (2) new keypad controllers at Building Control, one (1) in each Cluster Control and one (1) in an administrator's office.

5.18.6 Video recording equipment shall be the Bosch Divar 5000 with 80 inputs 36 TB storage.

5.18.7 The camera system shall require a Bosch Matrix system with 80 inputs and outputs to integrate between the camera system and the Touchscreen controls.

5.18.8 All cameras shall be accessed through the touchscreen control system for camera follow with the intercom system and for direct security selection to video monitors for Each TS Control Station.

5.18.9 Each Cluster Control Station shall have one (1) 27" monitor connected to the TS for camera intercom follow.

5.18.10 Each Cluster Control Station shall have one (1) 42” monitor with four (4) images of the housing POD cameras for constant observation of each of the four PODs.

5.18.10.1 Each Cluster Control Station 42” monitor shall have one (1) quad splitter.

5.18.11 Building Control shall have four (4) 42” monitors which will be wall mounted to give a larger overview of the cameras and movement within the facility.

5.18.12 Contractor shall provide drawings showing locations of all equipment with termination spreadsheets for all equipment for project records.

5.18.13 Camera lense options shall be 2.8 to 10.5 mm for wide coverages; 9 to 22 mm for standard coverages and 18 to 50 mm for long range coverages.

5.18.14 Offeror shall verify actual camera mounts, interior/exterior camera ratings, and existing camera power prior to submitting a proposal.

5.18.15 Reference Attachment C-Camera List **Revised**, Attachment G-Camera System Equipment List **Revised**, Attachment H-Camera Locations **Revised**, Attachment J-Camera Specifications, and Attachment K-Power Supply Specifications.

5.18.16 Building Control shall have two (2) 27” monitors.

5.18.17 The Administrators Office shall have one (1) 27” monitor.

5.18.18 All 27” monitors shall be desk top mounted.

5.18.20 All 27” monitors shall be spot monitors for the surveillance system and shall be coordinated with the detention controls.

5.18.19 Provide new monitor cabling at each location as required.

5.18.20 Monitor display schedules will be provided before installation starts.

5.19 Option Two-Surveillance System CCTV Cameras and Monitors Upgrade Requirements: Collin County is requesting pricing for two (2) options to the CCTV Cameras and Monitors Upgrade. Only one option will be awarded. All requirements and specifications listed in Section 5.18 will apply to this section with the following exceptions.

5.19.1 There shall be ~~forty-one (41)~~ fifty-seven (57) fixed dome cameras installed.

5.19.2 There shall be ten (10) new exterior pendant mounted PTZ cameras installed.

~~5.19.3—There shall be sixteen (16) new interior pendant mounted PTZ cameras installed.~~

5.19.4 There shall be two (2) 16 position bilinx data convertor, Bosch LTC 8016 for the added PTZ cameras.

5.19.5 Reference Attachment C-Camera List **Revised**, Attachment G-Camera System Equipment List **Revised**, Attachment H-Camera Locations **Revised**, Attachment J-Camera Specifications, Attachment K-Power Supply Specifications and Attachment L-Data Interface Specifications.

5.20 Closeout:

5.20.1 In the presence of an owners representative and the Owner, verify that the material and software provided meets this specification. If there are deficiencies and the contractor was at fault or negligent, the contractor is responsible for immediate correction.

5.20.2 Training: Provide two (2), one (1) hour training classes for Touchscreen and Surveillance System User functions with training manuals for ten (10) users and a one (1) hour training class on Touchscreen and Surveillance technical and programming functions as part of the Security Electronics General Section.

5.20.3 As-Built Documentation: Deliver the Touchscreen Controls and Camera Surveillance System as-built drawings, documents, instructions, training information, supporting literature and warranty information in three (3) bound hard copies and provide electronic copies of all As-Builts as described on two (2) USB Drives for the Owner records.

5.21 Warranty/Maintenance:

5.21.1 If within one (1) year after final acceptance of the work by Collin County, any of the work or material is found to be defective or not in accordance with the specifications of the contract, the contractor shall correct it promptly after receipt of a written notice from the County to do so. This obligation shall survive termination or completion of the contract. The County shall give such notice promptly after discovery of the condition.

5.21.2 Contractor shall provide first year maintenance on the CCTV Camera and Monitor System and the Touchscreen System.

5.22 Warranty Response Time:

5.22.1 Contractor agrees to send a qualified technician to arrive at Collin County's facility within four (4) hours from time of original request.

<b>6.0 PROPOSAL FORMAT</b>
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- 6.1 **PROPOSAL DOCUMENTS:** The proposal shall, at a minimum, include a Table of Contents detailing sections and corresponding page numbers, and shall be on letter-size (8 1/2"x 11") paper. Offerors may submit online via <https://collincountytexas.ionwave.net> or submit a hard copy with one (1) original and five (5) copies assembled with spiral-type bindings or staples. **DO NOT USE METAL-RING HARD COVER BINDERS.** Paper copies should also be accompanied by an electronic copy of the information provided on a CD in a searchable format.

Proposal shall include but not be limited to information on each of the following:

6.1.1 **FIRM OVERVIEW**

Offeror is requested to define the overall structure of the Firm to include the following:

- 6.1.1.1 A descriptive background of your company's history.
- 6.1.1.2 State your principal business location and any other service locations.
- 6.1.1.3 What is your primary line of business?
- 6.1.1.4 How long have you been providing service(s)?
- 6.1.1.5 State how many and the locations where your product/services are in use.

6.2 **PROPOSED PROJECT TEAM/STAFF  
QUALIFICATIONS/EXPERIENCE/CREDENTIALS**

- 6.2.1 Offeror is requested to provide qualifications as well as experience information on Offeror's key personnel.

6.3 **PROPOSED PROJECT**

- 6.3.1 Offeror is requested to identify the proposed product(s)/service(s) to include but not limited to the following areas:

- 6.3.1.1 Project to include all necessary components to render it complete and operational;
- 6.3.1.2 Project Plan to include:
  - 6.3.1.2.1 Installation
  - 6.3.1.2.2 Training
  - 6.3.1.2.3. Testing and Support
  - 6.3.1.2.4 Impact on current system
  - 6.3.1.2.5 Warranty/Maintenance
  - 6.3.1.2.7 Manufacturers documentation for all equipment
  - 6.3.1.2.8 Diagrams/Devise Drawings/Wiring Schematics
  - 6.3.1.2.9 Conversion

6.3.1.3 Submit product data sheets for all proposed items.

6.3.1.4 Submit names of all subcontractors and the type of work they will be performing (reference Attribute 9-Subcontractors).

#### 6.4 REFERENCES

6.4.1 Offeror is requested to include at least five (5) references with names, addresses, telephone numbers and e-mail address.

#### 6.5 TIME SCHEDULE

6.5.1 Provide a schedule on each phase of the proposed project beginning with program development and ending with the date of operation. The schedule shall include all tasks that will require time in the process, such as County review (identify amount of time assumed for each task). All work shall be performed during normal business hours (Monday – Friday, 7:00 am – 4:00 pm). Weekend and after hours work will not be permitted.

#### 6.6 PRICING/FEES

6.6.1 See Attachment A for Pricing Sheet **Revised**. Be sure to include all items necessary to render project complete and operational.

6.6.2 State Cost for Maintenance for Year 1

6.6.3 State Cost for optional items listed in Attachment A-Pricing Sheet **Revised**. Collin County will determine if these items will be included in the final project.

#### 6.7 OTHER PROJECTS INVOLVED WITH

6.7.1 Offeror is requested to provide a list of other similar projects that you are currently involved with or will be involved with.

#### 6.8 WARRANTY/RESPONSE TIME/MAINTENANCE

6.8.1 Offeror is requested to respond to Warranty/Response time/Maintenance, Section 5.21 and 5.22.

#### 6.9 GENERAL BUSINESS REQUIREMENTS

6.9.1 Offeror shall provide a response that they have read and understand each of the requirements in Section 5.15 through 5.20.

#### 6.10 EXCEPTIONS

