



## **RICH TOWNSHIP HIGH SCHOOL DISTRICT 227**

### **REQUEST FOR PROPOSAL**

#### **I. NOTICE TO VENDORS**

NOTICE IS HEREBY GIVEN that RICH TOWNSHIP HIGH SCHOOL DISTRICT 227, acting by and through its Governing Board, hereinafter referred to as the District or RTHSD, will receive up to, but no later than **10:00 AM** on **December 21, 2020**, proposals for:

#### **II. RFP NO. 2020-12**

#### **ACQUISITION AND INSTALLATION OF SECURITY CAMERA SYSTEM, ACCESS CONTROL SYSTEM, INTRUSION ALARM SYSTEM, AND VoIP TELEPHONE SYSTEM FOR THE DISTRICT TRANSITIONS CENTER**

This Request for Proposal (RFP) is to provide a description of the elements in the procurement, installation, configuration, and implementation of the RTHSD Security Cameras System, Access Control System, Intrusion Alarm System, and Voice over IP Telephone System.

The intent is to solicit Proposals from qualified vendors for the procurement, installation, configuration, and implementation services of a security camera system, access control system, intrusion alarm system, and voice over IP telephone system for the new transitions center.

#### **III. GENERAL INFORMATION**

##### **Introduction**

Rich Township High School District 227 (hereinafter "RTHSD" or "District") is a suburban high school district in Cook County. The District is opening a new transitions center to aid students in the transition from high school to full time employment.

The transitions center is located at the address below:

- Rich Township Transition Facility
- 3236 Vollmer Road, Olympia Fields, 60461

#### IV. Scope of Services

The District needs an IP Security Camera System, Access Control System, Intrusion Alarm System, and a Cloud Hosted VoIP Telephone System for the new transitions center.

#### V. Schedule

The estimated schedule for the RFP, Evaluation, Vendor Selection, and Award of Contract are as follows:

RFP General Release	December 10, 2020
Vendor Site Walk (10 am – 11 am)	December 15, 2020
Deadline for Vendor Questions (RFI)	December 18, 2020
Deadline for submitting Proposals and bid opening	December 21, 2020 10:00am
Quotations Evaluations and Vendor Interview (if needed)	December 22, 2020
Award of Contract	January 19, 2021

The District reserves the right to change the dates on the schedule without prior notice.

#### VI. Proposal Submittal

All responses must be type-written, concise, and straightforward. All response must fully address all requirements. All Proposals must include a signed RFP document.

Vendors shall submit:

- A. One (1) paper-bound original
- B. One (1) unbound original

District may reproduce additional copies as required.

District will not accept any Proposal modifications submitted by facsimile or electronic mail transmission.

All quotations must be enclosed in a sealed envelope bearing the description of the RFP Name, RFP Number, and Name of Vendor on the exterior of the envelope.

All Proposals are to be submitted to:

**Rich Township High School District 227**  
**Attn: RFP NO. 2020-12**  
**20550 S. Cicero Avenue**  
**Matteson, IL 60443**

All Proposals submitted after the Deadline for Proposal Response – December 21, 2020 at 10 am, will NOT be considered.

All Proposals submitted in response to this RFP shall become the property of the District and be considered public documents under the applicable State law.

## VII. Contents of Proposals

Proposals shall contain all sections of the RFP as described. Failure to adhere to this format may eliminate the Proposals from consideration.

- A. Cover Letter (maximum two (2) pages) – Letter of Introduction and a brief description of the company. Clearly identify the individual who is authorized to communicate on behalf of the company during the evaluation process. Signature by authorized officer is required. If the Vendor is a joint venture, duplicate the signature block and have a principal or officer also sign on behalf of each party to the joint venture.
- B. Proposals to also include:
  - 1. Vendor participation and responsibility clearly defined
  - 2. The District’s participation and responsibility clearly defined
  - 3. Vendor’s service and support hours clearly defined
  - 4. Price of Proposals to include, but not limited to, individual system pricing, upgrade pricing, installation support, annual subscriptions, warranty support, training, and any other relevant options with associated pricing
  - 5. Proposal project cost to be broken down by:
    - a. Camera System (including system hardware, software, licenses, and subscriptions)
    - b. Access Control System (including hardware and subscriptions)
    - c. Intrusion Alarm System (including system hardware and subscriptions)
    - d. VoIP Telephone System (including system hardware, software, and subscriptions)
    - e. Installation (including labor, necessary components needed to complete installation and system setup)
    - f. System Support/Maintenance and Training (annual and multi-year (Five years) Support and Maintenance cost, end-user training)
    - g. Others
  - 6. Experience and/or References of the company submitting the Quotations
  - 7. Installation procedures clearly defined
  - 8. Acknowledgement in writing that any software will be properly licensed to the District
- C. Proposals must include the following District Required Forms. See attached.
  - 1. Proposals Form
  - 2. Bidder Reference and Responsibility Information
  - 3. Non-Collusion Affidavit
  - 4. Certificate of Prevailing Wage
  - 5. Certificate Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion
  - 6. Contractor’s Drug-Free Workplace Certification
  - 7. Certificate of Compliance Criminal Background Check/Sex Offender Database
  - 8. Designated Sub-Contractors List
  - 9. Equal Employment Opportunity Statement
  - 10. Certification of Non-Debarment

## VIII. Selection Process

All Proposals are subject to an evaluation and selection process. Proposals must meet all mandatory modules/functions to be considered. Proposals will be thoroughly reviewed by a Screening and Selection Committee.

**While the total cost of this implementation will be the most weighted criteria, the District values the vendor's implementation strategy. The goal of our selection is to pick a vendor based on our conviction of the vendor's ability to provide the best solution, best price, and to complete the implementation with the minimal disruption to business, minimal mistakes, and ability to deliver on implementation schedule.**

The District retains the sole discretion to determine issues of compliance, and to determine whether a Vendor is responsive, responsible, and qualified. The District may disqualify any Vendor for any reason without explanation.

The District may perform investigations of responding parties that extend beyond contacting the references identified in the submittals. The District may request a Vendor to submit additional information pertinent to the review process. The District also reserves the right to investigate and rely upon information from other available sources in addition to any documents or information submitted. At the Evaluation Committee's discretion, firms may be asked to arrange a tour of a representative facilities.

The District reserves the right to reject any or all submittals, and to negotiate contract terms with one or more Vendors for one or more work items. The District reserves the right to award all, part, or none of the work described in this RFP. Each submittal will be scored by the RFP Evaluation Committee. The District reserves the right to contract with any entity responding to this RFP for all or any portion of the work described herein, to reject any Proposals as non-responsive, and/or not to contract with any Vendor for the services described herein.

## IX. Limitations

The award of a Contract, if at all, is at the sole discretion of the District. The District reserves the right to contract with any entity responding to this RFP. The District makes no representation that participation in the RFP process will lead to an award of Contract or any consideration whatsoever. The District shall, in no event be responsible for the cost of preparing a response to this RFP. The awarding of the Contract(s), if at all, is at the sole discretion of the District.

## X. Modifications and Withdrawal of Proposals

Changes in or additions to the Proposals, recapitulations of the work proposed upon, alternative Proposals, or any other modification of the Proposals which is not specifically called for in the Contract documents may result in the District's rejection of the proposals as not being responsive to the invitation to propose.

No oral or telephonic modification of any Proposals submitted will be considered.

Vendor may withdraw its Proposals at any time prior to the scheduled closing time by written request, signed by an authorized representative of the Vendor, submitted to the RFP Contact. The Vendor may submit another Proposals at any time up to the Proposals closing date and time.

## **XI. Examination of Site and RFP Documents**

A mandatory site walk for the RFP will be held on Tuesday, December 15, 2020.

Rich Township HS District 227  
Transitions Facility  
3236 Vollmer Rd  
Olympia Fields, IL 60461

Monday – December 15, 2020  
10:00 AM – 11:00 AM

Vendors should ask specific questions through the RFP process. RFP may be submitted to [Mr. Ted Koutavas](#) before December 18, 2020 “Deadline for Questions from Vendors” in Schedule section of this RFP.

## **XII. PROJECT SPECIFICATIONS**

### **Project Description**

The District requests Proposals for a “State of the Art” Digital IP Security Camera System (either Cloud Based or Locally Hosted), Access Control System, Intrusion Alarm System, and Cloud Hosted Voice over IP Telephone System at the Transitions Facility. The District is looking for a single vendor that can satisfy all sections of this RFP. Any Proposals **must** fulfill all four sections in order to be considered.

## SURVEILLANCE SYSTEM

The District prefers Qumulex as the Video Management System (VMS) for the potential to move to a Cloud based solution. *Substitutions may be considered.*

The preferred number and model of cameras and mounting hardware are listed below.

### Recommended Number of Cameras

- Axis P3245-LV; quantity 9
- Axis P3245-LVE; quantity 4
- Axis Mount T94t01D; quantity 11
- Axis Mount T91D61; quantity 11

System will be on a separate network from the school to enable ease of setup, troubleshooting, and repair by installer. Installer will need to provide a Cisco 24 port POE network switch for connecting cameras to the server.

System requirements are detailed below:

### Video Surveillance Camera Requirements

- A. Outdoor ready HDTV 1080p fixed dome network camera
  1. The specified product shall meet or exceed the following design specifications:
    - a. The product shall operate on an open source and Linux-based platform, and include built-in web server.
    - b. The product shall be equipped with an IR-sensitive progressive scan megapixel sensor.
    - c. The product shall provide a removable IR-cut filter, providing day/night functionality
    - d. The product shall be equipped with a 3.4-8.9mm varifocal IR-corrected megapixel lens with P-iris
    - e. The product shall be equipped with remote zoon and focus, providing a horizontal field of view between 100° and 36° and a vertical field of view between 53° and 20°.
    - f. The product shall be manufactured with a repaintable casing.
    - g. The product shall provide local video storage utilizing a microSD/microSDHC/microSDXC memory card expansion.
    - h. The product shall be manufactured with an UV-resistant IP66 and NEMA 250 4X-rated and IK10 impact-resistant polymer enclosure with dehumidifying membrane.
    - i. The product shall provide options for clear and smoked lower dome.
  2. The specified product shall meet or exceed the following performance specifications:
    - a. Illumination:
      1. 25/30 fps with Forensic WDR
        - a. 0.1 lux, F1.8 (color)
        - b. 0.02 lux, F1.8 (B/W)
        - c. 0 lux with IR illumination on
    - b. Resolution:
      1. The product shall be designed to provide video streams in HDTV 1080p (1920x1080) at up to 60 frames per second (60Hz mode) or 50 frames per

- second (50Hz mode) using H.264 or Motion JPEG.
2. The product shall provide 2 individually cropped out view areas.
  3. The product shall support video resolutions including:
    - a. 1920x1080 (HDTV 1080p)
    - b. 1280x720 (HDTV720p)
    - c. 1440x1080 (4:3)
    - d. 1440x900 (16:10)
  4. The product shall provide both landscape format (4:3 and 16:9 aspect ratio) as well as corridor format (3:4 and 9:16 aspect ratio).
- c. Encoding:
1. The product shall provide independently configured simultaneous H.264.H.265 and Motion JPEG streams.
  2. The product shall provide configurable compression levels.
  3. The product shall support standard baseline profile with motion estimation.
  4. The product shall support motion estimation in H.264/MPEG-4 Part 10/AVC.
  5. The product shall support the following encoding algorithms:
    - a. Motion JPEG encoding in a selectable range from 1up to 50/60 frames per second.
    - b. Baseline Profile H.264 encoding with motion estimation in up to 50/60 frames per second.
    - c. Main Profile H.264 and H.265 encoding with motion estimation and context-adaptive binary arithmetic coding (CABAC) in up to 50/60 frames per second.
    - d. High Profile H.264 encoding with motion estimation in up to 50/60 frames per second.
  6. The camera shall in H.264 and H.265 support combining Average Bit Rate (ABR) and Maximum Bit Rate (MBR)
  7. The camera shall be able to deliver predictable storage using Average Bit Rate (ABR) bitrate controlling algorithm based on a bitrate budget and selected retention time.
  8. The product shall support scene adaptive bitrate control with one of the following capabilities to lower bandwidth and storage:
    - a. Automatic dynamic Region of Interest to reduce bitrate in unprioritized regions in order to lower bandwidth and storage requirements.
    - b. Automatic dynamic Group of Pictures to lower bandwidth and storage requirements
    - c. Automatic dynamic Frames per Second to lower bandwidth and storage requirements
- d. Transmission
1. The product shall allow for video to be transported over:
    - a. HTTP
    - b. HTTPS
    - c. RTP
    - d. RTP over RTSP
    - e. RTP over RTSP over HTTP
    - f. SRTP
  2. The product shall support Quality of Service (QoS) to be able to prioritize traffic.

e. Image

1. The product shall incorporate automatic and manual white balance
2. The product shall incorporate an electronic shutter operating in the range of 1/66500 s to 2 s
3. The product shall incorporate capture mode with the following settings:
  - a. HDTV 1080p (1920x1080) with WDR: 25/30 fps (50/60 Hz)
  - b. HDTV 1080p (1920x1080) without WDR: Up to 50/60fps (50/60Hz)
4. The product shall incorporate forensic wide dynamic range functionality providing up to 120 dB dynamic range.
5. The product shall support manually defined values for:
  - a. Saturation
  - b. Brightness
  - c. Sharpness
  - d. Contrast
6. The product shall incorporate a function to manually correct barrel distortion, by using a slider to correct distortion in the image.
7. The product shall incorporate a function for optimization of low light behavior.
8. The product shall allow for rotation of the image in steps of 90°
9. The product shall incorporate automatic defog functionality.

f. IR Illumination

1. The product shall be equipped with built-in IR LEDs with adjustable illumination intensity and with a range of up to 130 ft, with a wavelength of 850nm.

g. User interface

1. Web server
  - a. The product shall contain a built-in web server making video and configuration available to multiple clients in a standard operating system and browser environment using HTTP, without the need for additional software.
2. IP addresses
  - a. The product shall support both fixed IP addresses and dynamically assigned IP address provided by a Dynamic Host Control Protocol (DHCP) server
  - b. The product shall allow for automatic detection of the product based on UPnP and Bonjour when using a computer with an operating system supporting this feature.
  - c. The product shall provide support for both IPv4 and IPv6.

h. PTZ functionality

1. The product shall:
  - a. Provide digital PTZ functionality
  - b. Provide preset positions functionality.

i. Event functionality

1. They shall be equipped with an integrated functionality:
  - a. Device status
    - i. Operating temperature
    - ii. IP address
    - iii. Network lost



- iv. Ringpower overcurrent protection
    - v. Storage failure
    - vi. System ready
  - b. Edge storage
    - i. Recording ongoing
    - ii. Storage disruption
  - c. I/O
    - i. Digital input
    - ii. Manual trigger
    - iii. Virtual inputs
  - d. PTZ
    - i. Malfunctioning
    - ii. Movement
    - iii. Preset position reached
    - iv. Ready
  - e. Scheduled and recurring
  - f. Video
    - i. Average bitrate degradation
    - ii. Day-night mode
    - iii. Live stream open
    - iv. Tampering
- 2. Response to triggers shall include event actions:
  - a. Day-night mode
  - b. Defog
  - c. Guard tours
  - d. I/O
  - e. Upload of images and video clips: FTP,HTTP,HTTPS, SFTP, Email or network share
  - f. IR Illumination
  - g. Send notification: HRRP, HTTPS, TCP, and email
  - h. Overlay text
  - i. Preset positions
  - j. Prioritized text
  - k. Recordings
  - l. SNMP trap messages
  - m. Status LED
  - n. WDR mode
- 3. The product shall provide memory for pre- and post- alarm recordings
- j. Edge Storage
  - 1. The product shall support continuous and event controlled recording to:
    - a. Local memory added to the products microSD-card slot
    - b. Network attached storage, located on the local network
  - 2. The product shall incorporate encryption functionality for the SD card.
  - 3. The product shall be able to detect and notify edge storage disruptions.
- k. Protocol
  - 1. The product shall incorporate support for at least IPv4, IPv6 USGv6, HTTP, HTTPS, v1/v2c/v3, DNS, DynDNS, NTP, RTSP, RTP, SRTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS, SSH, SIP, LLDP, MQTT.
  - 2. The SMTP implementation shall include support for SMTP authentication.

- l. Text overlay
  - 1. The product shall:
    - a. Provide embedded on-screen text with support for date and time, and a customer-specific text, product name, of at least 45 ASCII characters.
    - b. Provide the possibility to choose different font sizes for embedded on-screen text, and to use white or black text on at least four different backgrounds.
    - c. Provide the ability to manually set up and configure privacy masks to the image.
    - d. Allow for the overlay of a graphical image, such as a logotype, into the image.
- m. Security
  - 1. The product shall support the following:
    - a. Secure web browsing
      - i. The use of HTTPS and SSL/TLS, providing the ability to upload signed certificates to encrypt and secure authentication and communication of both administration data and video streams.
      - ii. Restrict access to the built-in web server by usernames and passwords at three different levels.
    - b. Certificate management
      - i. Provide centralized certificate management, with both pre-installed CA certificates and the ability to upload additional CA certificates. The certificates shall be signed by an organization providing digital trust services.
    - c. Enhanced security features
      - i. The use of signed firmware validates the firmware's integrity before accepting to install it.
      - ii. The use of a secure boot process, based on the use of signed firmware, ensures that the product can boot only with authorized firmware.
    - d. Authentication
      - i. IEEE 802.1X authentication.
      - ii. Restrict access to pre-defined IP addresses, commonly known as IP address filtering.
    - e. Brute force delay protection
  - 2. Long-term supported (LTS) firmware
    - a. The manufacturer must provide LTS firmware that only contains corrections for critical bugs, security flaws and performance issues
    - b. The device should maintain cybersecurity without introducing any significant functional changes or affecting any existing integrations.
- n. System integration
  - 1. The product shall be fully supported by an open and published API (Application Programmers Interface), which shall provide necessary information for integration of functionality into third-party applications.
  - 2. The product shall conform to ONVIF profile G as defined by the ONVIF Organization.
  - 3. The product shall conform to ONVIF profile S as defined by the ONVIF Organization.

4. The product shall conform to ONVIF profile T as defined by the ONVIF Organization.
5. Support for Session Initiation Protocol (SIP) for integration with Voice over IP (VoIP) systems, peer to peer or integrated with SIP/PBX

o. Analytics

1. The product shall provide a platform allowing the upload of third-party applications into the camera.
2. The camera shall support advanced video analytics capabilities with a built-in hardware accelerated real-time object detect engine, capable of automatically detecting several simultaneously visible objects from a set of pre-trained object categories (such as vehicles and people).

p. Installation and maintenance

1. The product shall be supplied with Windows-based management software which allows the assignment of IP addresses, upgrade of firmware and backup of the products' configuration.
2. The product shall support the use of SNMP-based management tools according to SNMP v1, 2c & 3 / MIB-II.
3. The products shall allow updates of the software (firmware) over the network, using FTP or HTTP.
4. The product shall provide the ability to apply a rectangle of customer-defined number of pixels to the image, which can be used as a pixel counter identifying the size of objects in number of pixels.
5. The product shall accept external time synchronization from an NTP (Network Time Protocol) server
6. The product shall store all customer-specific settings in a non-volatile memory that shall not be lost during power cuts or soft reset.
7. The product shall provide remote zoom and remote focus functionality.

q. Access log

1. The product shall provide a log file, containing information about the 250 latest connections and access attempts since the unit's latest restart. The file shall include information about the connecting IP addresses and the time of connecting.
2. The product shall provide a connection list of all currently connected viewers. The file shall include information about connecting IP addresses, time of connecting and the type of stream accessed.

r. Camera diagnostics

1. The product shall be equipped with LEDs, capable of providing visible status information. LEDs shall indicate the product's operational status and provide information about power, communication with receiver, the network status and the product status.
2. The product shall be monitored by a Watchdog functionality, which shall automatically re-initiate processes or restart the unit if a malfunction is detected.
3. The product shall send a notification when the unit has rebooted, and all services are initialized.

s. Hardware interfaces

1. Network interface
  - a. The product shall be equipped with one 10BASE-T/100BASE-TX Ethernet-port using a RJ45 connector and shall support auto

negotiation of network speed (100 Mbit/s and 10 Mbit/s) and transfer mode (full and half duplex).

2. Inputs/outputs

- a. The product shall be equipped with one digital (alarm) input and one digital output, accessible via a removable terminal block. This input shall be configurable to respond to normally open (NO) or normally closed (NC) dry contacts. The output shall be able to provide 12 V DC, 15mA.

t. Enclosure

1. The product shall:

- a. Be manufactured with an IP66 and NEMA250 4X rated, and IK10 resistant polymer enclosure.
- b. Be fitted with a dehumidifying membrane.
- c. Be fitted with a fixed weather shield.

u. Power

1. The product shall provide power over Ethernet IEEE 802.3af/802.3at Type 1 Class 3

- a. Max: 11.3 W
- b. Typical: 6.4 W

v. Environmental

1. The product shall:

- a. Operate in a temperature range of -40°C to +50°C (-40°F to 122°F)
- b. Operate in a maximum temperature (intermittent) of 55°C (131°F)
- c. Operate in a humidity range of 10-100% RH (condensing).

## Video Surveillance Camera Installation Requirements

- A. The contractor's or subcontractor's main resources within the project shall carry proper professional certification issued by the manufacturer and verified by a third-party organization to confirm sufficient product and technology knowledge.
- B. The contractor shall carefully follow instructions in documentation provided by the manufacturer to ensure all steps have been taken to provide a reliable easy-to-operate system.
- C. All equipment shall be tested and configured in accordance with instructions provided by the manufacturer prior to installation.
- D. All firmware found in products shall be the latest and most up-to-date provided by the manufacturer, or of a version as specified by the provider of the Video Management Application (VMA) or Network Video Recorder (NVR).
- E. All equipment requiring users to log on using a password shall be configured with user/site-specific password/passwords. No system/product default passwords shall be allowed.
- F. A proper installation shall meet NEC (national Electric Code -US only) per the guidelines of that year's revision. When properly installed equipment meets Low Voltage, Class 2 classification of the NEC.

## Video Surveillance NVR Requirements

### A. Products

1. Equipment

a. Manufacturer: Qumulex, 9059 Technology Lane, Fishers, IN 46038. Phone 317-207-0520.

Web: [www.qumulex.com](http://www.qumulex.com). Email: [info@qumulex.com](mailto:info@qumulex.com)

b. Model: QXS500-08 with 15 camera licenses

## B. Description

1. The Hybrid Network Video Recorder (“NVR”) shall be an appliance to acquire, record, store, and display video signals from both directly connected analog cameras and IP network video cameras and encoders.
2. The NVR appliance hardware shall have the following characteristics:
  - a. Camera inputs
    - i. Up to 32 IP video cameras or encoders
  - b. Storage capacity: 8TB
  - c. Video compression – IP: MJPEG, MPEG-4, H.264, H.265
  - d. Hybrid capability to store video in the manufacturer’s cloud, on premise, or any combination in between.
3. Video management system
  - a. The NVR shall come pre-loaded with VMS server Software
  - b. The VMS server software shall provide the following features as a minimum:
    - i. System
      - 1) One server connection per client
      - 2) Browser-based viewing of live and stored video
      - 3) Auto detection of supported cameras
      - 4) Support of fish- eye and panoramic
      - 5) Client bandwidth throttling
      - 6) Soft triggers
      - 7) Pre and post alarm recording
      - 8) Continuous motion, time or alarm-based recording, configurable per camera
    - ii. Live video view
      - 1) Multiple monitor view support
      - 2) PTZ control and presets
      - 3) Motion and alarm indication
    - iii. Search, playback, export, archive
      - 1) Instant replay
      - 2) Event search
      - 3) Multi camera playback
      - 4) Export options
        - a. USB storage device
        - b. .AVI, .MOV, .MP4 or .EXE file
    - iv. User Interfaces – the NVR shall support browser based and mobile web client interface.
      - 1) Browser Client
        - a. Software shall be available at no charge from the NVR manufacturer’s web site and be fully compatible with all available features of the VMS.
      - 2) Mobile web client
        - a. A free mobile application shall be available permitting remote view of live and recorded video through the NVR.

- b. The mobile application shall support PTZ control and monitoring and activation of alarms and triggers for the mobile device.
- c. The mobile application shall be available for devices running Apple iOS, Google Android, Microsoft Windows, and Amazon Kindle Fire software.
- d. The mobile application shall allow simultaneous interaction with multiple NVR devices from the same Manufacturer
- e. The web service supporting the mobile application shall size the video stream to accommodate both low bandwidth and high bandwidth networks.

4. Execution

a. Installation

- i. Contractor shall comply with all Manufacturer installation guidelines
- ii. Contractor personnel shall comply with all applicable state and local licensing requirements

b. Storage

- i. Hardware shall be stored in an environment where temperature and humidity are in the range specified by the hardware manufacturer.

## ACCESS CONTROL SYSTEM

The District currently uses Access Master’s cloud hosted access control system with HID Signo™ card readers. Any installation must include integration into the existing District system via Access Master’s cloud.

There will be four (4) access-controlled doors at the facility. Proposals will need to include all necessary card readers, DPS, electronic locking hardware, necessary door modifications, enclosures, power supplies, circuit boards, and cabling.

System controllers will be located in the server room.

### A. System requirements

1. The ACS shall communicate with, monitor, and use open architecture System Control Processor (SCPs), which shall support 64 controlled openings per, EP – 1502, EP – 2500, EP – 4502 EP-4502 with Auxiliary Authentication Module (AAM), the Lp4502, LP2500, LP1502, LP1501 SCPs. The EP – 1501 and LP-1501 (SCP) shall support a total of 17 openings. The ACS shall be capable of communicating with a minimum of 1,000 SCPs concurrently for a minimum of 64,000 controlled openings. The ACS shall not employ reader licenses which limit the number of Readers the ACS shall control. The ACS shall be capable of communicating with the SCPs using Hardwire (direct RS-232, or RS-485), Dialup modem using POTS (Plain Old Telephone system), and TCP/IP network communications. Each SCP shall be capable of

maintaining in its memory a Real-time clock, 256 Holidays, 128 TimeZones each having 12 start\stop Time Intervals, 32,000 Access Levels, 256 Tasks (predefined routines with 256 steps per Task), 16 Card Formats (up to 19 digit card codes, 16 Facility (Site) codes, supports Open Supervised Device Protocol (OSDP) multi-drop support with series 3 Mercury hardware, supports Anti-Passback (areas, hard, soft, timed, nested), occupancy count rules, device configurations for the devices (Readers, Inputs, Outputs) controlled by the SCP, and a minimum of 50,000 event transactions if the SCP is unable to communicate to the ACS, the SCP stores Card numbers for entry decisions.

2. System Input Output (SIO), Reader Interface Modules (RIM), such as the MR-50 single (opening) reader interface, MR-52 dual opening or single opening with in out reader interface control, and MR-51E single opening control supports dual readers for IN \ OUT control or the Series 3 MR-50, MR-52, MR-62e.
3. System shall have the ability to make individual reader(s) beep when the reader has a forced/held/pre-alarm state, via a selectable check box.
4. The ability to designate a Responsible person on the Auditing screen, and display that column on the readers grid.
5. System Input Output (SIO), 16 dry contact Input modules with 2 Form C output relays, and 16 form C relay Output modules, such as the MR-16IN, or the MR-16OUT or the series 3 MR-16IN, MR 16-OUT, SIO devices.
6. The ACS shall also have the capability to integrate \ communicate with wireless \ IP locksets, Intrusion Systems, and Biometrics.
7. The ACS shall be capable of utilizing PVC badge printer having a Windows compliant \ capable Windows Driver for the Operating System being utilized for the ACS Workstation Software. The ACS shall utilize standard Dot Matrix, Laser, and Ink jet printers for report purposes having a Windows Driver for the workstation the printer is connected to.
8. Access Control Software shall be *Access It!* no substitutions shall be acceptable. The ACS shall use a single seamlessly integrated Microsoft SQL relational database for all functions utilizing a fully multi-tasking multi-threading Microsoft Windows operating system.
9. The ACS shall only be able to connect to and interface with data sources utilizing a Windows Service.
10. The ACS shall require the default Administration password be changed on the first login after installation of the ACS software package.
11. The ACS shall be capable of importing or updating Cardholder data using the following source types.
  - a. Microsoft Access
  - b. Microsoft Excel
  - c. Microsoft SQL Server

- d. ASCII Text (delimited file)
- e. The ACS (Access It!) shall support up to:
- f. 1000 System Control Panels (SCP)
- g. Support for 256 Tasks per SCP
- h. 64,000 Access Control Readers, 64 readers per SCP.
- i. 512,000 Inputs, 512 per SCP
- j. 512,000 Outputs 512 per SCP
- k. Supports multi-drop OSDP readers with EP/LP SIO devices.
- l. Unlimited Cardholders
- m. Multiple Cards per Cardholder
- n. 32,737 Access Levels
- o. 128 Access Levels per Card
- p. 255 Time zones, with 12 start/stop intervals each
- q. 255 Holidays, across 8 Holiday Groups/Types
- r. Elevator Control using 64 Floors with 255 Floor Codes
- s. Support for KONE destination dispatch elevator control.
- t. Support for OTIS destination dispatch elevator control
- u. Support for Schindler destination dispatch elevator control.
- v. Anti-Passback with Occupancy Counting
- w. Virtualization Support
- x. Video Integration Support
- y. Biometric Integration Support
- z. Web Client / Thin Client Support
- aa. Fully Integrated Graphical Mapping (Floor Plans with Active ICONs)
- bb. User Definable Macro Support.
- cc. Macro Utilization report.
- dd. Calendar display on Macro screen.
- ee. Macros may be set to automatically delete after scheduled execution.
- ff. Macros may be pinned to the Ribbon Bar for immediate access. Pinned Macros may have a friendly (custom) icon assigned on the Ribbon Bar.
- gg. Macros may be placed on Graphic Floor Plans (Maps) for immediate access.
- hh. Unassigned Access Level Interval and Time zone report assists with system organization and clean up.
- ii. System Status screen has direct links to filtered views such as Unlocked Doors, Active Cards, Installed SCPs, SIOs, Readers, Inputs, Outputs, Unlocked Doors, and other System Status Categories.



- jj. Lock Integration support for:
- kk. ABLOY
- ll. Allegion – Schlage AD-300/301 and AD-400/401
- mm. Salto – Sallis SX4 & SVN (The SX4 line and the Salto Virtual Network - Data on Card line).

## **INTRUSION ALARM SYSTEM**

The District prefers the Honeywell Vista 128BPT panel for this installation. Panel will be installed in a UL listed cabinet. System will consist of two (2) 6460W keypads, seven (7) dual tec motion sensors, six (6) door sensors, two (2) exterior horn/strobe, and an LTE radio for communication.

**System must be integrated into the above access control system.**

System requirements are detailed below:

### **A. MANUFACTURER**

1. Intrusion Detection Alarm Panel Manufacturer: VISTA 128BPT by Honeywell, [www.security.honeywell.com](http://www.security.honeywell.com).
2. The District prefers the Vista 128 security system for the Intrusion alarm system. This system will require door sensors on all exterior doors, motion sensors in rooms with windows, 2 keypads, and a wireless radio for police notification.

### **B. SYSTEM PERFORMANCE**

1. Control Panel: The control panel shall be an 8-partition, UL commercial and burglary control panel that supports up to 128 zones using basic hardwired, polling loop, and wireless zones, RF receivers, and relay modules. The control shall provide the ability to schedule time-driven events, and allow certain operations to be automated by pressing a single button. The system shall be capable of interfacing with an ECP long range radio (LRR) unit that can send Contact ID messages. The control shall provide integrated access control and CCTV-switching capability with the use of a single downloader and database.
  - a. Intrusion Detection System components shall be connected using the following Cables:
    - i. Keypads use four conductor, 22AWG or 18AWG, non-shielded cable:
    - ii. VPLEX Zone Expanders shall connect to a VPLEX data bus using two conductor, 18AWG, non-shielded cable
    - iii. VPLEX Fire detection devices and two wire fire detection devices connect using two conductor, 18AWG, non-shielded fire alarm cable
    - iv. Four wire fire detection devices connect using four conductor, 18AWG, non- shielded fire alarm cable
    - v. Unpowered detection devices connect to zone inputs using two conductor, 22AWG, non-shielded cable
    - vi. Powered detection devices connect to zone inputs using four conductor, 18AWG,

- non-shielded cable
  - vii. The Bell output shall use two conductor, 16AWG, non-shielded cable
  - viii. Power connections for control panels shall be made using two conductor, 16AWG, non-shielded cable.
  - ix. Ground connections to control panels shall be made using 14AWG solid insulated copper ground wire.
- b. Basic Hardwired Zones: Control shall provide 8 style-B hardwire zones with the following characteristics:
- i. EOLR supervision (optional for zones 2-8) shall support N.O. or N.C. sensors (EOLR supervision required for UL installations).
  - ii. Zones/Points shall be individually assignable to any partition.
  - iii. Supports up to 16 two-wire smoke detectors on zone 1.
  - iv. Supports four-wire smoke or heat detectors on any zone (power to four-wire smoke detectors must be supervised with an EOL device).
- c. Optional Expansion Zones:
- i. Polling Loop Expansion: Control shall support up to 120 additional hardwire zones using a built-in two-wire polling (multiplex) loop interface. The polling loop shall provide power and data to remote point modules, and constantly monitor the status of all zones on the loop. Maximum current draw shall not exceed 128 mA. The polling loop zones shall have the following characteristics:
    - 1) Interface with RPM (Remote Point Module) devices that provide Class B, Style Y (e.g., 4208U/4208SN) or a combination of Class B, Style Y, and Class A, Style Z (e.g., 4208SNF) zones.
    - 2) Individually assignable to one of 8 partitions.
    - 3) Supervised by the control panel.
    - 4) A 12,000 ft (3658 m) wire run capability without using shielded cable.
    - 5) Each RPM (Remote Point Module) enclosure shall be tamper protected.
  - ii. Wireless Expansion Zone: Control shall support up to 128 wireless zones using a 5800 series RF receiver (fewer if using hardwire and/or polling loop zones). Wireless zones shall have the following characteristics:
    - 1) Supervised by control panel for check-in signals (except certain non-supervised transmitters).
    - 2) Tamper-protection for supervised zones.
    - 3) Individually assignable to one of 8 partitions.
    - 4) Individually assignable to bell outputs and/or auxiliary relays.

- 5) Support wireless devices listed for Commercial Burglary using the 5881ENHC RF Receiver.
- d. Partitions: Control shall provide the ability to operate e8 separate areas, each functioning as if it had its own control. Partitioning features shall include:
    - i. A Common Lobby partition (1-8), which can be programmed to perform the following functions:
      - 1) Arm automatically when the last partition that shares the common lobby is armed.
      - 2) Disarm when the first partition that shares the common lobby is disarmed.
    - ii. A Master partition (9), used strictly to assign keypads for the purpose of viewing the status of all 8 partitions at the same time (master keypads).
    - iii. Assignable by zone.
    - iv. Assignable by keypad/annunciator.
    - v. Assignable by relay to one or all 8 partitions.
    - vi. Ability to display burglary and panic and/or trouble conditions at all other partitions' keypads (selectable option).
    - vii. Certain system options selectable by partition, such as entry/exit delay and subscriber account number.
  - e. User Codes: Control shall accommodate 150 user codes, all of which can operate any or all partitions. Certain characteristics must be assigned to each user code, as follows:
    - i. Authority level (Master, Manager, or several other Operator levels). Each User Code (other than the installer code) shall be capable of being assigned the same or a different level of authority for each partition that it will operate.
    - ii. Opening/Closing central station reporting option.
    - iii. Specific partitions that the code can operate.
    - iv. Global arming capability (ability to arm all partitions the code has access to in one command).
    - v. Use of an RF (button) to arm and disarm the system (RF key must first be enrolled into the system).
  - f. Peripheral Devices: Control shall support up to 30 addressable ECP devices, which can be any combination of keypads, RF receivers, relay modules, and interactive phone module. Peripheral devices have the following characteristics:
    - i. Each device set to an individual address according to the device's instructions.
    - ii. Each device enabled in system programming.

- iii. Each device's address shall be supervisable (via a programming option).
  
- g. Keypad/Annunciator: Control shall accommodate up to 16 keypads or six (6) touch- screen (i.e.; advanced user interface) keypads. The keypads shall be capable of the following
  - i. Performing all system arming functions.
  - ii. Being assigned to any partition.
  - iii. Providing four programmable single-button function keys, which can be used for:
    - 1) Panic Functions: activated by wired and wireless keypads; reported separately by partition.
    - 2) Keypad Macros: 32 keypad macro commands per system (each macro is a series of keypad commands). Assignable to the A, B, C, and D keys by partition.
  
- h. Optional Output Relays: A total of 96 relay outputs shall be accommodated using relay modules. Each relay module shall provide four (4) Form C (normally open and normally closed) relays for general-purpose use. The relays shall be capable of being:
  - i. Programmed to activate in response to system events.
  - ii. Programmed to activate using time intervals.
  - iii. Activated manually.
  - iv. Assigned an alpha descriptor.
  - v. A combination of 4204 (ECP) and 4101SN (polling loop) relays.
  
- i. Optional Vista Interactive Phone Module: The control shall support the ADEMCO 4285/4286 VIP Modules, which permit access to the security system in order to perform the following functions:
  - i. Obtain system status information.
  - ii. Arm and disarm the security system.
  - iii. Control relays.
  - iv. Battery saving feature.
  
- j. Integrated Access Control: Control shall be capable of the following:
  - i. Providing a command that activates relays to allow access doors to open (e.g., lobby door), lights to be turned on or off, etc.
  - ii. Becoming a fully integrated access control system by using numerous VistaKey Single-Door Access Control Modules.
  - iii. Supporting up to 15 VistaKey Access Control Modules. The VistaKey Access Control Modules shall use the same Compass Downloader as the Vista-128BPT and shall be programmable from the Compass Downloader or the Keypad/Annunciators.

- iv. Assigning any number of access control relays to each partition (up to 96 for the system).
  - v. Supporting up to 500 access card holders using VistaKey.
- k. Commercial Wireless Equipment: Control shall be compatible with UL Listed Commercial Wireless Security equipment including:
- i. ADEMCO 5881ENHC Commercial Wireless Receiver: The receiver shall be capable of receiving as many points as the control panel is rated for. Up to two (2) Receivers may be used on any system. Receivers may be remotely located anywhere on the system Keypad/Annunciator bus.
  - ii. Honeywell 5808W3 Wireless Photoelectric Smoke and Heat Detector: The device shall be UL 268 listed and shall have Maintenance Alert capability and Automatic Drift Compensation.
  - iii. ADEMCO 5809 Wireless 135D Fixed Temperature and Rate of Rise Heat Detector: The device shall be UL 521 listed for commercial applications.
  - iv. ADEMCO 5817CB Wireless Universal Contact Monitoring Transmitter: This device shall be capable of making any conventional UL listed contact device a wireless device. The device shall be UL listed for commercial burglary applications as follows: UL 365, 609, 1023, 1076 and 1610 for security and nurse call.
  - v. ADEMCO 5869 Wireless Hold Up Switch/Transmitter: This device shall be UL 636 listed for commercial burglary applications.
- l. Optional Keyswitch: Control shall support the ADEMCO 4146 Keyswitch on any one of the system's 8 partitions. If used, zone 7 is no longer available as a protection zone.
- m. Voltage Triggers: System shall provide voltage triggers, which change state for different conditions. Used with devices such as a remote keypad sounder or keyswitch ARMED and READY LEDs.
- n. Event Log: System shall maintain a log of different event types (enabled in programming). The event log shall provide the following characteristics:
- i. Stories up to 512 events.
  - ii. Viewable at the keypad or through the use of Compass software.
  - iii. Printable on a serial printer, including zone alpha descriptors.
- o. Scheduling: Provides the following scheduling capabilities:
- i. Open/close schedules (for control of arming/disarming and reporting).
  - ii. Holiday schedules (allows different time windows for open/close schedules).
  - iii. Timed events (for activation of relays, auto-bypassing and un-bypassing, auto- arming and disarming, etc.).
  - iv. Access schedules (for limiting system access to users by time).

- v. End User Output Programming Mode (provides 20 timers for relay control).
- vi. The system shall automatically adjust for daylight savings time.
- p. Communication Features: Supports the following formats and features for the primary and secondary central station receivers:
  - i. Formats: ADEMCO Express; ADEMCO Contact ID 4 and 10 Digit Acct number.
  - ii. Backup reporting: The system shall support backup reporting via the following: Secondary phone number; ECP long-range radio (LRR) interface; option to select long range radio (LRR) or dialup as the primary reporting method (dynamic signaling feature).
  - iii. Internet reporting: The system shall be capable of communicating with the central station via the internet using Alarmnet-i. It shall provide the user with the ability to control the system via a browser interface (i.e., AOL, Netscape, Internet Explorer). All packet data transmitted to the monitoring station shall be encrypted with a minimum of 1024 bits of encryption.
- q. Audio Alarm Verification Option: Provides a programmable Audio Alarm Verification (AAV) option that can be used in conjunction with an output relay to permit voice dialog between an operator at the central station and a person at the premises.
- r. Cross-Zoning Capability: Helps prevent false alarms by preventing a zone from going into alarm unless its cross-zone is also faulted within 5 minutes.
  - i. Alarm notification appliances, including but not limited to sirens horns, bells and strobes.
  - ii. Auxiliary devices capable of operating using full-wave rectified unfiltered voltage.
- s. Exit Error False Alarm Prevention Feature: System shall be capable of differentiating between an actual alarm and an alarm caused by leaving an entry/exit door open. If not subsequently disarmed, the control panel shall:
  - i. Bypass the faulted E/E zone(s) and/or interior zones and arm the system.
  - ii. Generate an Exit Error report by user and by zone so the central station knows it was an exit alarm and who caused it.
- t. Built-in User's Manual and Descriptor Review: For end-user convenience, the control panel shall contain a built-in User's Manual. It shall include the following capabilities:
  - i. By depressing any of the function keys on the keypad for five (5) seconds, a brief explanation of that function shall scroll across the alphanumeric display.
  - ii. By depressing the READY key for five (5) seconds, all programmed zone descriptors shall be displayed (one at a time). This feature shall provide a check for installers and ensure all descriptors have been entered properly.
- u. Programming: Control shall be capable of being programmed locally or remotely using the ADEMCO Compass Downloader and shall be capable of:

- i. Uploading and downloading all programming information at 300 baud.
- ii. Uploading and displaying firmware revision levels from the control.
- v. Automation Software: The Control shall be capable of interfacing with automation software via an RS232 input on a single partition.

## C. COMPONENTS

1. System Integration: System shall integrate with facility doors, windows, and departments. The system shall also integrate with external systems, such as building appliances and building alert systems for remote control and central collection of external system alerts. When integrated with external systems, the system shall connect to the external system to receive status changes by way of a dry contact output from the external system. The system shall use its user interface to provide local status messages from external systems, providing for the initiation of local building policies. Optionally, the system may transmit information to an off-site monitoring service to provide initiation of remote policies when appropriate. The installer shall follow manufacturer's instructions when installing and programming system equipment.

## VoIP TELEPHONE SYSTEM

The District requires a private cloud hosted, SIP based, Voice over IP (VoIP) telephone system. There will be a total of 1 wall mounted phones and 5 desk mounted phones. Phones will be Cisco 8861 Series or equivalent.

System requirements are detailed below:

### A. Requirements

1. The following section summarizes Customer's requirements.
  - a. Provide solution and equipment for eleven (6) SIP color display HD audio phones.
  - b. Solution should allow future expansion to all Rich Township HS locations to be part of one telephone system with a single database for system administration.
  - c. System must integrate with emergency notification system.
  - d. Caller ID must be presented on all incoming calls (where provided by the Telco) to either the person's DID or as a second call (call waiting) to the person.
  - e. Single System Functionality – should support for 4 digit dialing between stations, centralized management and centralized voicemail;
  - f. Cloud Hosted – Vendor must host PBX in a private cloud, outsourcing of cloud hosting to a public cloud source is prohibited.
  - g. Direct Inward Dial – for direct calls to desktops;

- h. Tracking and reporting of internal and external inbound/outbound calls from every extension including telephone numbers and length of calls, minimum 180 days of data retention.
- i. Resilient with High Availability – Private Cloud hosted system required for maximum reliability.
- j. Standard telephone requirement is for a multiline set capable of supporting at least 2 extension appearances with a minimum of 6 fixed feature keys.
- k. Accessible via fixed or soft feature keys, are required:
  - i. hold
  - ii. transfer
  - iii. message waiting indicator
  - iv. five-party conference call
  - v. system speed dial access
  - vi. personal speed dial access
  - vii. forward to voice mail
- l. LCD display
- m. Two-way speakerphone
- n. SMS integration
- o. Ability to mute both speakerphone and handset calls
- p. Classroom function
  - i. Ability to receive calls from Administration while Do not Disturb is enabled
  - ii. E911 capable

## **B. IT Infrastructure**

1. Rich Township HS currently uses Cisco PoE switches with Quality of Service ready for the implementation of Voice over IP.
2. VoIP Compatible LAN Replacement
3. You can assume that RTHSD will provide the following minimum configuration at each location where VoIP telephones are located:
  - a. Purchase the necessary LAN Power over Ethernet (PoE) equipment to support the VoIP telephones and various end-points
  - b. One (1) Category 6 data drop per phone location
4. We require that your proposed solution be E911 compatible. Please describe how your solution will meet the following requirements, as well as your overall E911 strategy and abilities. In our opinion, E911 means that you must be able to:
  - a. Allow a 911 call to be made from any station, even if that station is restricted to extension dialing
  - b. Allow internal user to dial 911 or 9,911
  - c. RTHSD will provide any necessary Cisco PoE network switches for this project



### **C. Software**

1. Manufacturer must provide software updates to address security flaws in the OS and applications at no additional cost (other than labor to implement) during the warranty and maintenance period.
2. Software Version
  - a. Vendor will implement the most recent and stable version of all supplied software.
  - b. If manufacturer releases a software update to fix flaws, bugs, or security during the installation timeframe the vendor will update the districts system at the earliest reasonable opportunity during a scheduled maintenance window.
  - c. This maintenance window will be scheduled after hours for service impacting upgrades to an operational and partially deployed system.

### **D. Infrastructure and Expectations**

1. Voice over IP protocol
2. It is expected that a Voice over IP installation will be reliable and provide high voice quality.
3. We define the following as our minimum acceptable performance for VoIP telephone systems
  - a. Provide 99.99% uptime of all applications during regular office hours
  - b. Provide 99.9% total uptime including after-hours system maintenance.
4. Vendors must furnish all space, power, and environmental requirements for the proposed telephone system and voice messaging equipment.
  - a. Space – Provide the physical dimensions of the proposed equipment.
  - b. Power – Provide number of power outlets, and types, required

### **E. Installation**

1. Responsibility - The selected vendor is solely responsible for the complete turn-key engineering of the new telephony system
2. Initial Work - Vendor will perform needs analysis, station reviews, data base preparation, and original program initializations.
3. Transparency - It is essential that the installation of the new system be as transparent as possible to the users. There should be no telephone service interruptions, no interim changes in dialing procedures, and no perceived degradation in the quality of service.
4. Project Plan - Vendors will be required to supply a complete description of the key activities required for the installation of the proposed system upon contract award.

### **F. Training**

1. Requirements - The successful vendor is required to conduct end-user training on RTHSD premises, tailored specifically to RTHSD particular requirements.
2. Each user should have access to a live telephone instrument during training
3. Classes should not exceed 60 minutes (45 minutes preferred)
4. All users will require training on the new telephone system and voicemail.

### **G. System Acceptance**

1. System acceptance to be defined as follows:
2. All equipment delivered and installed.
3. All training completed
4. All installation issues resolved to RTHSD satisfaction.

5. RTHSD may agree to system acceptance with an acceptable exception list.
6. RTHSD expects that they will move from installation support to warranty/maintenance support only upon execution of a Delivery and Acceptance agreement.

### **XIII. Scope of Work**

Installation of all components shall be the responsibility of the Vendor. This includes all additional parts and equipment needed to complete the system. Vendor will also provide and install a Cisco POE switch for connecting cameras to NVR on an isolated network. This is to facilitate ease of maintenance when necessary. All proposed equipment must be new from the manufacturer and shall qualify for warranty and maintenance services.

Implementation schedule will be based on available funding, Vendor's responses and recommendations, and Vendor's negotiations. District reserves the right to schedule the installation in multiple phases. The District retains the sole option to remove sites due to closures or reorganization requirements, as deemed necessary by the District. The District requires that there be no early termination fees or other penalties assessed in such situations that is determined to be outside the control of the District.

Project schedule and work hours will be discussed during negotiations. Exact date to be determined after award of Contract. The final timeline is subject to District and vendor discussion. Vendor will adjust work hours to minimize impact on classroom instruction during regular school days.

All systems and components shall have undergone a thoroughly documented quality assurance process by the manufacturer. The manufacturer's warranty, extended warranty, and replacement policies shall be disclosed in the Quotations for each specified component. All equipment shall be covered under warranty for a minimum of five (5) years from the date of installation.

The equipment vendor and integrator shall have a dedicated professional services group providing the following services, including but not limited to training, installation, commissioning, remote diagnostics, and integration with third party software and hardware systems.

- A. Service response time during the warranty period will be five (5) days x ten (10) hours x four(4) hours response. If service response time is different, please include response time, escalation procedures, and preventative identification capabilities.
- B. Final approval of work completed from the designated RTHSD Technology Department staff member is required for a job to be considered complete.
- C. Approved RTHSD staff must be able to access the system internally through a secure web interface.
- D. Each site will operate for thirty (30) days without a single equipment, software, configuration, or dependent equipment failure.
- E. The Vendor will provide cable test reports and will coordinate with the District's Technology Department to resolve any bandwidth and equipment hand-off issues.

F. The Vendor shall include the following in its scope:

1. All software, parts, and cable as defined in this RFQ
2. Network Video Recorders (NVRs) – either network attached or cloud-based service
3. Installation labor cost
4. Conduit and standard electrical boxes for low voltage wiring (as required) are to be provided and installed by the installer.
5. Roof/wall penetrations and weatherheads. **Note:** All building walls are to be considered “hot” (possibly containing asbestos) and proper procedures must be observed when penetrating building walls.
6. Trenching and underground conduit (if required).
7. The cost to rent, deliver, and pick up a lift or bucket truck for use in installing cameras or other devices that are above the safe reach of a twelve (12) foot ladder.
8. Project management, engineering, programming, test, and commission
9. Post award product submittals
10. Field installation drawings, as-built drawings
11. On-site end user training

G. District assumes that the minimum standard for point of demarcation and/or MDF closet will include:

1. Vendor equipment requires no more than two (2) nearby, dedicated, grounded IEC C13 receptacle, 20-amp, 120 VAC single-phase circuit for power services.

#### **XIV. Data Cabling Requirement Surveillance Cameras**

- A. All cabling must be Category 6 plenum CMP, purple jacket, for copper cabling or better for Cameras. Blue jacket for telephones.
- B. All cabling termination will conform to T568B pinout specification and use Panduit connectors.
- C. All cables must be terminated into a Panduit Category 6 patch panel at the data rack.
- D. Patch cables shall be provided by the vendor.
- E. Patch cables are desired to be three (3) foot long and of a distinct purple color to be easily identifiable in the data rack.
- F. All cables installed shall be neatly organized into cable management and tied down.
- G. IP cameras are to be directly connected to CAT6 cable that will be directed to the nearest data rack. The camera side will be terminated with an RJ45 plug, and the IDF side will be terminated on a patch panel.
- H. Contractor must possess a valid and active Illinois Alarm Contractors License.
- I. Category 6 cable must be properly installed and terminated to meet specifications. The cable must not be kinked or bent too tightly (the bend radius should be at least four (4) times the outer diameter

of the cable). The wire pairs must not be untwisted, and the outer jacket must not be stripped back more than 0.5 inches (12.7 mm).

- J. Contractor will certify all installed cables, correct cables failing Cat6A and Class EA up to 500 MHz and provide electronic AND printed certification reports.
- K. All cabling will terminate in rack-mounted patch panels.
- L. Cable will be routed through appropriate pathways. Electrical Metallic Tube (EMT) or Rigid Conduit will be used in all wall penetrations as required.
- M. In open ceiling areas above T-Bar, hanging of J-Hooks is acceptable.
- N. In user occupied space use of EMT conduit or raceway is acceptable such that cable is not visible or accessible.
- O. A service loop of ten (10) feet (or three (3) meters) will be provided at each end of cable runs or nearest pull location. Exceptions may be made where pathway is restricted by other infrastructure or service loops would cause cable run to exceed ninety-four (94) meters (308 feet) when agreed prior to change.
- P. Seal all penetration of smoke and fire walls with fire-stopping compound as required
- Q. Removal of installation debris and restoration of site to pre-installation condition, including and not limited to reinstalling or replacing insulation and ceiling tiles, holes in wall are to be patched and weather sealed, fire caulked interior holes, wall and stucco to be painted in matching color as required.

# REQUIRED FORMS

**Rich Township High School District  
Transition Building Project**

**XV. PROPOSAL FORM**

Board of Education  
Rich Township High  
School District 227  
Purchasing Department  
20550 S. Cicero Ave  
Matteson, IL 60443

RE: Request for Proposal No. \_\_\_\_\_

TO: Members of the Board of Education

The undersigned, doing business under the full and complete legal firm name as set forth below, having examined the Notice of Request for Proposal, Information for Vendors, the Agreement, and all other documents forming a part of the Proposal package, hereby proposes to perform the Agreement, including all of its component parts, and to furnish all materials called by them for the entire order for the prices set forth in the quotation sheets contained in said quotations package. The entire Proposal package is submitted, together with this Proposal Form.

Name of Company \_\_\_\_\_

Legal Status \_\_\_\_\_  
(i.e., sole proprietorship, partnership, corporation)

Tax I.D. Number \_\_\_\_\_  
(Sole Proprietorship only)

Address \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Authorized Representative: \_\_\_\_\_  
Signature

\_\_\_\_\_  
Name (print or type)

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

Telephone: (\_\_\_\_) \_\_\_\_\_ Fax: (\_\_\_\_) \_\_\_\_\_

E-mail Address \_\_\_\_\_



D. The bidder must also demonstrate knowledge of school construction techniques and should possess a working ability to perform similarly sized construction work for a public agency. This knowledge and ability shall be shown by furnishing the names, current phone numbers, address, points of contract and scope of work of at least five (5) customers served within the past three (3) years with requirements similar to the needs of the Rich Township High School District.

FAILURE TO FURNISH THE REFERENCES (IN THE COMPLETE FORMAT REQUIRED) MAY CAUSE YOUR BID TO BE REJECTED AS NON- RESPONSIVE.

EXAMPLE: Your references should be listed in the following format (facts are example only)

- (a) Work for X Y Z Unified School District
- (b) Phone # (222) 123-4567
- (c) 999 Holly Drive, Oak Lawn., IL 60453
- (d) Contact: J.Q. Jones III at above #
- (e) Renovated Hills High in 1990 for \$1.3 Million.

Bidder's Name: \_\_\_\_\_

**Reference #1**

District or Entity: \_\_\_\_\_  
Phone #: \_\_\_\_\_  
Address: \_\_\_\_\_  
Name of Contact: \_\_\_\_\_  
Scope of Work & \$ Amount: \_\_\_\_\_

**Reference #2**

District or Entity: \_\_\_\_\_  
Phone #: \_\_\_\_\_  
Address: \_\_\_\_\_  
Name of Contact: \_\_\_\_\_  
Scope of Work & \$ Amount: \_\_\_\_\_

**Reference #3**

District or Entity: \_\_\_\_\_  
Phone #: \_\_\_\_\_  
Address: \_\_\_\_\_  
Name of Contact: \_\_\_\_\_  
Scope of Work & \$ Amount: \_\_\_\_\_

**Reference #4**

District or Entity: \_\_\_\_\_  
Phone #: \_\_\_\_\_  
Address: \_\_\_\_\_  
Name of Contact: \_\_\_\_\_  
Scope of Work & \$ Amount: \_\_\_\_\_



**Reference #5**

District or Entity: \_\_\_\_\_  
Phone #: \_\_\_\_\_  
Address: \_\_\_\_\_  
Name of Contact: \_\_\_\_\_  
Scope of Work & \$ Amount: \_\_\_\_\_

**Rich Township High School District  
Transition Building Project**

**XVII. NON-COLLUSION AFFIDAVIT**

**TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID**

State of \_\_\_\_\_

County of \_\_\_\_\_

\_\_\_\_\_ being first duly sworn, deposes and says that he or she is  
\_\_\_\_\_ of \_\_\_\_\_ the party making the foregoing quotations that the proposals are not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the quotations is genuine and not collusive or sham; that the Vendor had not directly or indirectly induced or solicited any other Vendor to put in a false or sham proposals, and has directly or indirectly colluded, conspired, connived, or agreed with any Vendor of anyone else to put in a sham proposals, or that anyone shall refrain from bidding; that the Vendor has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the Vendor or any other Vendor, or to fix any overhead, profit, or cost element of the bid price, or of that of any other Vendor, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the quotations are true; and further, that the Vendor has not directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham quotations.

\_\_\_\_\_  
Signature of Corporate Office

\_\_\_\_\_  
Date

**Rich Township High School District  
Transition Building Project**

**XVIII. CERTIFICATE OF PREVAILING WAGE PAYMENT**

The Contractor, hereby certifies that all laborers, workers, and mechanics performing work under the Contract shall not be paid less than the prevailing wage as found by the Illinois Department of Labor or the Board of Education, and the Contractor and the subcontractors shall in all other respects comply with the Prevailing Wage Act in carrying out work under the Contract. If, during the course of work under the Contract, the Department of Labor revises the prevailing rate of hourly wages to be paid under this Contract, Contractor shall have sole responsibility and duty to ensure that the revised prevailing rate of hourly wages is paid by Contractor and all subcontractor to each worker to whom a revised rate is applicable. Revisions to the prevailing wage as set forth above shall not result in an increase in the Contract sum. Contractor shall protect, defend, indemnify and hold the School District harmless for any claims or demands made as a result of Contractor's failure to comply with this certification.

BY: \_\_\_\_\_

(Contractor's Authorized Representative)

SUBSCRIBED and SWORN TO before me

This \_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_.

\_\_\_\_\_

NOTARY PUBLIC

Notary Seal (stamp)

**Rich Township High School District  
Transition Building Project**

**XIX. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY  
AND VOLUNTARY EXCLUSION**

I am aware of and hereby certify that neither \_\_\_\_\_ nor its principals are presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency. I further agree that I will include this clause without modification in all lower tier transactions, solicitations, proposals, contracts, and subcontracts. Where the bidder/offer or/contractor or any lower participant is unable to certify to this statement, it shall attach an explanation to this solicitation quotations.

IN WITNESS WHEREOF, this instrument has been duly executed by the Principal of the above-named bidder on the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_ for the purposes of submission of this bid.

BY \_\_\_\_\_  
Signature  
  
\_\_\_\_\_  
Typed or Printed Name  
  
\_\_\_\_\_  
Title  
  
\_\_\_\_\_  
Date

As the awardee under this contract, I hereby certify that the above certification remains valid as of the date of contract award, specifically, as of the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_, for the purposes of award of this contract.

BY \_\_\_\_\_  
Signature  
  
\_\_\_\_\_  
Typed or Printed Name  
  
\_\_\_\_\_  
Title  
  
\_\_\_\_\_  
Date

**XX. Contractor’s Drug Free Work Place Certification**

Pursuant to 30 ILCS 580/1 et seq. (the “Drug Free Workplace Act”), the undersigned certifies to the Board of Education of District 227, it will provide a drug-free workplace by:

1. Publishing a statement:
  - a. Notifying employees that unlawful manufacture, distribution, possession, or use of a controlled substance, including cannabis, is prohibited in the Contractor’s workplace;
  - b. Specifying actions that will be taken against employees for violations of this prohibitions;
  - c. Notifying employees that, as a condition of employment on this contract, employees will:
    - i. Abide by the terms of the statement,
    - ii. Notify the Contractor of any criminal drug statute conviction for a violation occurring in the workplace, no later than five (5) days after such a conviction.
2. Establishing a drug-free awareness programto inform employees about:
  - a. The dangers of drug abuse in the workplace;
  - b. The Contractor’s policy of maintaining a drug-free workplace;
  - c. Available drug counseling, rehabilitation, and employee assistance programs;
  - d. Penalties that may be imposed upon employees for drug violations.
3. Making it a requirement to give a copy of the statement in subsection “1” to each employee engaged in performance of the contract, and posting it in a prominent workplace location.
4. Notifying the District within ten days after receiving notice in subsection “1”, paragraph “C”, part “2”, from an employee, or otherwise receiving notice of such conviction.
5. Imposing a sanction or requiring participation by a convicted employee, in a drug abuse rehabilitation program, as required by Section 5 of the Drug Free Workplace Act.
6. If required, assisting employees in selecting drug counseling, treatment, and/or rehabilitation, and indicating a trained referral team is in place.
7. Making a good-faith effort to maintain a drug-free workplace through implementation of Section 3 of the Drug Free Workplace Act.

Failure to abide by this Contractor’s Drug Free Workplace Certification will subject the contractor to penalties set forth in Sections 6, 7, and 8 of the Drug Free Workplace Act.

For: \_\_\_\_\_  
(company name)

BY: \_\_\_\_\_  
(signature)

Its: \_\_\_\_\_  
(owner,president,partner, ect.)

Date: \_\_\_\_\_

NOTICE: This Drug Free Workplace Certification must be completed by contractors with (25) or more employees at the time of contract: or a department, division, or unit thereof, directly responsible for the performance of a contract of \$5,000 or more with the District.

**XXI. Certificate of Compliance Criminal Background Checks/Sex  
Offender Database**

The undersigned Contractor shall be responsible for conducting a criminal background check and a check of the Illinois statewide sex offender database as to all persons working within a school building or other indoor facility used for school purposes, and areas outside buildings and facilities, whether owned, leased or contracted by RTHSD. This includes all employees of the Contractor or any sub-contractor, all independent contractors, casual laborers, workers obtained through union halls or hiring halls, and all other individuals present on the School District's property at any time during the performance of the Contract. No person shall be permitted to work on or within the School District's property, when children are present, who: 1) has been convicted of any of the enumerated criminal or drug offenses found in 105 ILCS 5/10-21.0©, or 2) felony under the laws of the State of Illinois or of any offense committed or attempted in any other state or against the laws of the United States that, if committed or attempted in the State of Illinois would have been punishable as a felony under the laws of this State, or 3) is on the Illinois Sex Offender Database. The Contractor must submit records directly to the District to verify that the criminal background/sex offender checks have been performed on all persons working on or within School District property. All such records must be updated at least every twelve months.

The School District reserves the right to order the Contractor to remove any person from the School Districts work who the School District determines to be a threat to safety of students, School District employees, other workers , parents visitors, or otherwise. All workers must follow School District policies, regulations and rules as to the building access and security.

Agreed and signed by:

Firm Name: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

(Signature of Officer)

\_\_\_\_\_

(Title)

Subscribed and sworn before me

This \_\_\_\_\_ Day of \_\_\_\_\_, 2020

Notary Seal (stamp)

\_\_\_\_\_

(position)

\_\_\_\_\_

(date)

**Rich Township High School District  
Transition Building Project**

**XXII. DESIGNATED SUBCONTRACTORS LIST**

Vendor must list hereinafter the name and location of each subcontractor who will be employed, and the kind of work each will perform if the contract is awarded to the vendor. Vendor acknowledges and agrees that under Public Contract Code sections 4100 et seq.; it must clearly set forth below the name and location of each subcontractor who will perform work or labor or render service to the vendor in or about the construction of the work in an amount in excess of one-half of one percent (1/2 or 1%) of the vendor's total bid quotations, and that as to any work that vendor fails to list, vendor agrees to perform that portion itself or be subjected to penalty under applicable law.

In case more than one subcontractor is named for the same kind of work, state the portion that each will perform. Vendors or suppliers of materials only do not need to be listed. If further space is required for the list of proposed subcontractors, additional sheets showing the required information, as indicated below, shall be attached hereto and made a part of this document.

SUBCONTRACTORS FOR \_\_\_\_\_  
(Company name)

~~~~~  
SUBCONTRACTOR NAME \_\_\_\_\_  
Contact Person/Title: \_\_\_\_\_  
Portion of Work: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone Number:(\_\_\_\_\_) \_\_\_\_\_ Fax Number:(\_\_\_\_\_) \_\_\_\_\_  
License Number: \_\_\_\_\_ License Expiration \_\_\_\_\_

~~~~~  
SUBCONTRACTOR NAME: \_\_\_\_\_  
Contact Person/Title: \_\_\_\_\_  
Portion of Work: \_\_\_\_\_  
Address: \_\_\_\_\_  
Phone Number:(\_\_\_\_\_) \_\_\_\_\_ Fax Number:(\_\_\_\_\_) \_\_\_\_\_  
License Number: \_\_\_\_\_ License Expiration \_\_\_\_\_

**Rich Township High School District  
Transition Building Project**

~~~~~  
SUBCONTRACTOR NAME: \_\_\_\_\_

Contact Person/Title: \_\_\_\_\_

Portion of Work: \_\_\_\_\_

Address: \_\_\_\_\_

Phone Number:(\_\_\_\_\_) \_\_\_\_\_ Fax Number:(\_\_\_\_\_) \_\_\_\_\_

License Number: \_\_\_\_\_ License Expiration \_\_\_\_\_

~~~~~  
SUBCONTRACTOR NAME: \_\_\_\_\_

Contact Person/Title: \_\_\_\_\_

Portion of Work: \_\_\_\_\_

Address: \_\_\_\_\_

Phone Number:(\_\_\_\_\_) \_\_\_\_\_ Fax Number:(\_\_\_\_\_) \_\_\_\_\_

License Number: \_\_\_\_\_ License Expiration \_\_\_\_\_



**Rich Township High School District  
Transition Building Project**

**XXIII.EQUAL EMPLOYMENT OPPORTUNITY STATEMENT**

“I hereby certify to the RICH TOWNSHIP HIGH SCHOOL DISTRICT that I (if an individual) or we (if a company or corporation) do not discriminate against any employee or applicant for employment because of race, color, sex, religion, or national origin.”

---

Signature of Authorized Representative

---

Printed Name of Above

---

Title

---

Name of Company

**Rich Township High School District  
Transition Building Project**

**XXIV. CERTIFICATION OF NON-DEBARMENT**

Debarment, Suspension, and other Responsibility Matters:

- A. The applicant certifies that it and its principles:
  - a) Are not presently debarred, suspended, proposed for debarment, declared intelligible, or voluntarily excluded from covered transactions by any Federal department or agency,
  - b) Have not within a three-year period preceding this application been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery bribery, falsification or destruction of records, making false statements or receiving stolen property;
  - c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State, or local) with commission of any of the offenses enumerated in paragraph (1)(b) of the certification; and
  - d) Have not within a three-year period preceding this application had one or more public transactions (Federal, State, or local) terminated for cause or default; and
  
- B. Where the applicant is unable to certify to any of the statements in this certification, he or she shall attach an explanation to this.

It further agrees, by accepting and executing this Agreement, that it will include this language without modification in all lower tier transactions, solicitations, Quotations, contracts and subcontracts. Where the Contractor or any lower tier participant is unable to certify this statement, it shall attach an explanation to this Agreement.

\_\_\_\_\_  
Proper name of Individual, Company or Corporation

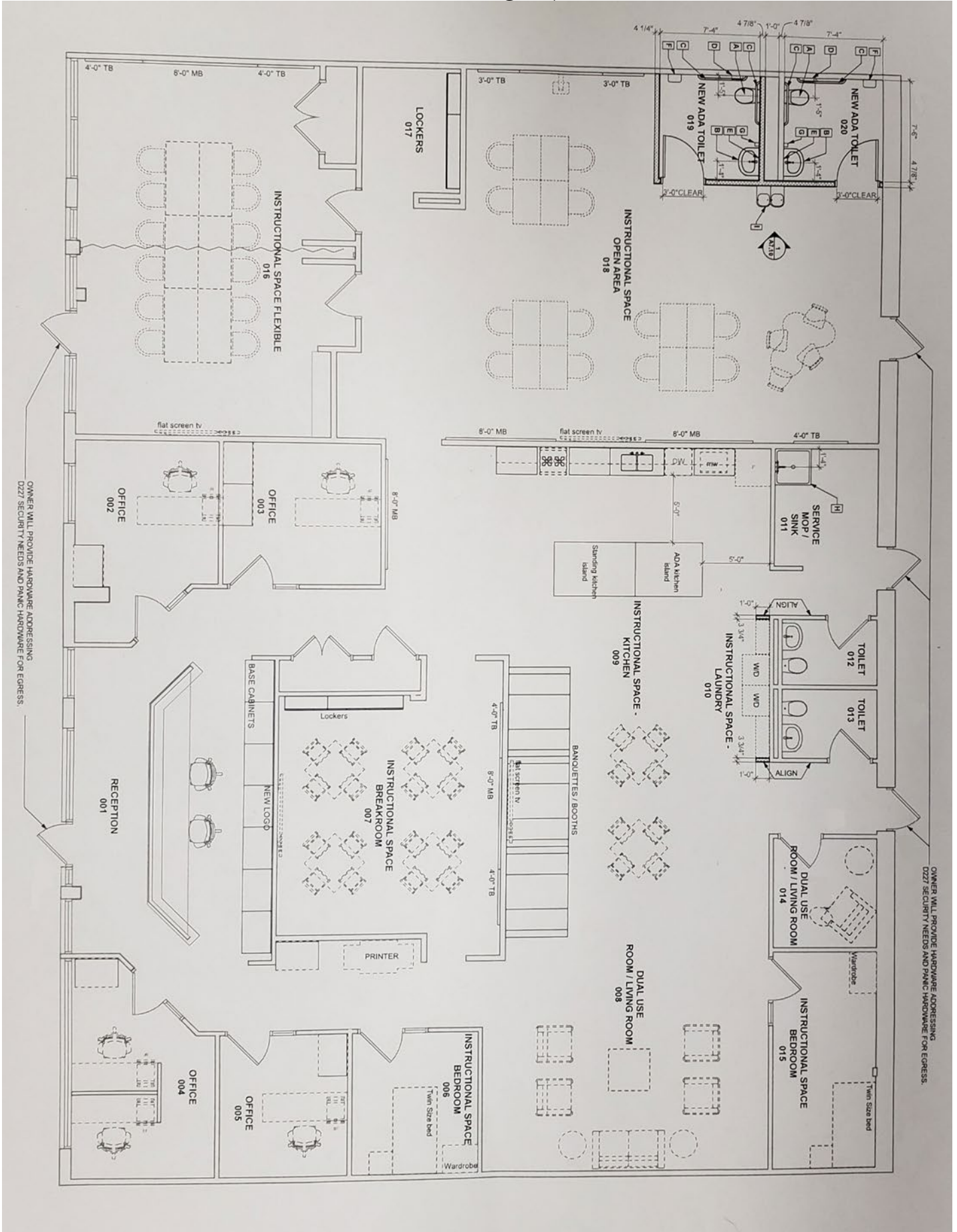
By \_\_\_\_\_  
Title \_\_\_\_\_  
Address \_\_\_\_\_  
\_\_\_\_\_  
Telephone \_\_\_\_\_  
Date \_\_\_\_\_

**Rich Township High School District  
Transition Building Project**

**XXV. Attachments**

**A. Site Map**

# Rich Township High School District Transition Building Project



OWNER WILL PROVIDE HARDWARE ADDRESSING DZ77 SECURITY NEEDS AND PANIC HARDWARE FOR EGRESS.

OWNER WILL PROVIDE HARDWARE ADDRESSING DZ77 SECURITY NEEDS AND PANIC HARDWARE FOR EGRESS.