



# Housing Authority of the City of Pittsburgh

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**February 27, 2017**

## **BEDFORD HOPE CENTER IMPROVEMENTS AT BEDFORD DWELLINGS, COMMUNITY PA-1-02**

**IFB#600-01-17**

### **ADDENDUM NO.4**

This addendum issued February 27, 2017 becomes in its entirety a part of the Invitation for Bid, IFB #600-01-17, as is fully set forth herein:

**Item 1:** Replace: Specification 263200 in its entirety with revised Specification 263200, dated February 23, 2017 (Attachment A).

**Item 2:** Q. Is there carpet tile or broadloom? The drawings state tile, but there is not a selection. The specs are for broadloom.

A. The carpet shall be broadloom, as specified.

**Item 3:** Q. Is there a selection provided for the VCT?

A. VCT shall be by any major manufacturer having been in the business of producing commercial grade product for a minimum of 5 years. Acceptable manufacturers are Tarkett, Johnsonite, Mannington, Armstrong or Approved Equal. Final color selection shall be from manufacturer's full range.

**Item 4:** Q. Rubber base isn't called for on the drawings. Two types are listed in the specs. Please clarify.

A. The existing base is wood and is scheduled to remain and be painted (See note No. 4 on Drawings A-101 and A-102.) Rubber base is called for on the new partitions on drawing G-001. This rubber base shall be 4" high as specified.

**Item 5:** Clarification: Where walk-off mats are required, they should be Waterhog Premier Entrance Mats or Approved Equal.

**Item 6:** Clarification: Where the flat-screen TV is required, it should be Sharp 65" Class LED 2160P Smart 4K Ultra HD or Equal. Contractor should also furnish appropriate mounting bracket. Soundbar should be VIZIO Smart Cast 38" with Subwoofer or Approved Equal.

**Item 7:** Replace: Fixture Schedule located on DWG No. E-101 with the attached revised Fixture Schedule, dated February 27, 2017 (Attachment B).

**Item 8:** The bid due date is changed to March 7, 2017 and the time and location remain unchanged at 10:00 AM at the HACP Procurement Dept., 100 Ross St. 2<sup>nd</sup> Floor, Suite 200, Pittsburgh, PA 15219.

**END OF ADDENDUM NO. 4**



Mr. Kim Detrick  
Procurement Director/Contracting Officer

February 27, 2017  
Date



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### **BEDFORD HOPE CENTER IMPROVEMENTS AT BEDFORD DWELLINGS, COMMUNITY PA-1-02**

**IFB#600-01-17**

**ATTACHMENT A**

## SECTION 263200 – SPECIAL SYSTEMS

### PART 1 - GENERAL

#### 1.1 IP Intercom Stations

- A. Manufacture: Basis for Specification is 2N® Helios IP intercoms. Equivalent Manufacturers are acceptable.
1. General:
    - a. Intercom – electronic device providing audio and video communication including access control and security.
    - b. Pure IP based solution.
    - c. Standalone functionality – intercom shall be able to perform tasks of access control device even without network connection. Intercom shall not require any remote service running on PC server etc. to perform its tasks once it is configured.
    - d. Intercom shall be able to adapt time and date settings from public NTP server.
  2. Configuration
    - a. Remote configuration using state of the art web interface with online status monitoring.
    - b. Remote group configuration and upgrade of all intercoms from one place, including online connection monitoring.
    - c. Intercom shall support creating of back up of configuration for later use.
    - d. Intercom shall not allow identical numeric codes for different use scenarios
  3. Communication
    - a. Two way full duplex audio communication with echo cancellation.
    - b. Separately adjustable audio volume level for call, key, error messages, paging.
    - c. Intercom shall support adaptive gain control.
    - d. Intercom shall be able to be registered to SIP registrar. Outgoing calls shall be performed either by calling on predefined IP address, or using SIP proxy which can be, but not must be, the same as SIP registrar.
    - e. Intercom shall support audio communication using G.711 codec.
    - f. User as entry in phonebook shall have up to three separate numbers which can be dialed in sequence or as ring group.
    - g. Device, which is called from intercom, can be identified as extension number or direct IP address. Combinations of all options shall be supported in phonebook entry.
    - h. Intercom shall be interoperable/certified with major brands of PBX and gateways manufacturers.
    - i. Administrator shall be able to remotely reboot the intercom as well as trigger factory reset.
  4. Access control
    - a. User of remote station, such as IP telephone, must be able to control the electrical output of the intercom using DTMF codes from keypad of his device.
    - b. Intercom shall be able to log events such as codes, phone calls, RFID cards etc., and provide them using HTTP/XML interface for monitoring. Administrator shall be able to set whether the particular messages are sent by the intercom immediately after any event occurs, or if the client registers for event logging and then asks for full report since last registration, all events at once. Client shall be able to select which messages are reported from event log.
    - c. Each user can have unique access code for each of electric outputs of the intercom.

5. Network security
  - a. Configuration of the intercom should be secured using HTTPS protocol.
  - b. Intercom shall be able to operate in DHCP on or static IP address mode
  - c. Intercom shall require the administrator to change default password for a new one. Intercom refuses password which is not long and complicated enough.
  - d. Intercom shall be resistant against dictionary attacks by blocking of the login page for 30 seconds after three faulty passwords were submitted.
6. Physical security
  - a. Intercom shall control the door lock in a way which cannot be surpassed when attacker gains access to cabling from the intercom, or gets inside the intercom.
7. Additional Standards
  - a. Signaling protocol
    - 1) SIP 2.0 (RFC - 3261)
  - b. Buttons
    - 1) Quick dial buttons
    - 2) Transparent, white backlit buttons with easily replaceable name tags
      - a) Number of buttons 1 to 146
    - 3) Numeric keypad optional
  - c. Audio
    - 1) Microphone 1 integrated microphones
    - 2) Loudspeaker 2W
  - d. Audio stream Codecs G.711, G.729
  - e. Camera
    - 1) Resolution – JPEG 1280 x 960 px
    - 2) Resolution – video call 640 x 480 px
    - 3) View angle 120° (H), 90° (V), 145° (D)
    - 4) IR Night Vision
  - f. Video stream
    - 1) Codecs H.263+, H.263, H.264, MJPEG, MPEG-4
  - g. RFID card reader
    - 1) Supported cards
      - a) Mifare Classic 1k & 4k
      - b) DESFire EV1
      - c) Mini, Plus S&X
      - d) SmartMX, Ultralight
      - e) Ultralight C
      - f) SLE44R35
      - g) My-d move (SLE66Rxx)
      - h) PayPass,
      - i) Legic Advant Calypso,
      - j) CEPAS
      - k) Moneo
      - l) PicoPass
      - m) HID ICLASS
  - h. Interface
    - 1) Power Supply 12V±15%/2A DC
    - 2) PoE 802.3af (Class 0 - 12.95W)
    - 3) LAN 10/100BASE-TX with Auto-MDIX, RJ-45
    - 4) Relay outputs NC/NO contacts, max 30V/1A AC/DC
    - 5) Active output 8V – 12V DC/400mA
  - i. Dimensions

- 
- 1) Wall-mounted 1 module 107x130x28 mm
  - 2) Wall-mounted 2 modules 107x234x28 mm
  - 3) Wall-mounted 3 modules 107x361x28 mm
  - 4) In-wall 1 module 130x153x5 mm
  - 5) In-wall 2 modules 130x257x5 mm
  - 6) In-wall 3 modules 130x361x5 mm
  - j. Extended Modules
    - 1) Keypad
    - 2) 5 Button
    - 3) Info Panel
    - 4) Blind Module
    - 5) RFID Reader Module
    - 6) Tamper Switch
    - 7) Wiegand Module
    - 8) I/Module
  - k. Frames
    - 1) Flush and Surface Installation
      - a) 1 Module
      - b) 2 Module
      - c) 3 Module
  - l. Boxes
    - 1) Flush Installation
      - a) 1 Module
      - b) 2 Module
      - c) 3 Module
  - m. Additional Accessories
    - 1) IP Relay
    - 2) USB RFID Reader
    - 3) RFID Reader
    - 4) RFID FOB
    - 5) RFID Card EM4100
    - 6) RFID Card Mifare
    - 7) Door Contact
    - 8) 2Wire Convertor
    - 9) Request to Exit
    - 10) Extension Cable
- B. Manufacture: 2N® Helios IP Force or Equal
- 1. General
    - a. Intercom shall be compact unit, anti-vandal design with protecting frame and black surface.
  - 2. Mechanical requirements
    - a. Robust construction and easy to install.
    - b. Two separate microphones for back up and noise cancellation.
    - c. Backlit, easy to exchange nametags which are push buttons at the same time.
    - d. Mechanical keypad for entering of phonebook positions, phone numbers, entering of access codes, or triggering special functions.
    - e. Camera shall be hidden and protected by the chassis of the intercom.
    - f. Intercom shall be equipped with tamper switch which enables connection of a separate wiring to alarm system. Opening, removing or disconnecting of the intercom shall be recognizable even if the intercom is out of operation. Intercom

- 
- shall be able to react on tamper switch activation with sound alarm, call triggering, sending of an email and sending of HTTP message.
3. Configuration
    - a. Intercom shall support auto provisioning / triggered or automatic prescheduled updates and upgrades.
    - b. Intercom shall support DHCP option 66 function to obtain auto provisioning server address.
    - c. Automatic upgrade of firmware or update of configuration shall support TFTP or HTTP protocol.
    - d. Specific configuration file for particular unit, model, or general shall be supported.
  4. Communication
    - a. Audio and video communication.
    - b. Audio communication using G.711 or G.729 codecs.
    - c. Following Ethernet protocols have to be supported DHCP, HTTP, HTTPS, TFTP, SMTP, 802.1x, NTP, RTP, RTSP, ONVIF, Syslog
    - d. Intercom shall be able to send pictures separately from audio to 2N® Helios IP Eye application.
    - e. Audible and visible information for user about current status of the intercom using pictograms and human voice instructions.
    - f. Separate visible indicator of armed or alarm status.
    - g. Intercom shall be interoperable with public announcement systems as both destination of announcement as well as source of announcement.
      - 1) Intercom shall support multicast audio dissemination, both as source and destination.
    - h. Group of intercoms shall be able to perform basic public announcement tasks.
    - i. On predefined situations, intercom shall be able to send an email with pictures from camera and predefined message text. Intercom shall be able to address every user in phonebook, or use a default general email address.
    - j. Intercom shall be able to address 1999 separate users, three numbers for each user.
  5. Access control
    - a. Intercom shall be able to provide access control according to identification of visitors by numeric code entered on keypad, RFID card swiped at card reader or combination of both (Double verification).
    - b. Intercom shall be able to detect door opening and trigger an alarm when the door has been opened unauthorized, or if the door is left open for too long.
    - c. Intercom shall be able to communicate with external access control system using Wiegand interface or HTTP messages.
    - d. Electrical outputs shall be remotely operable by external access control system.
    - e. Intercom shall support connection of "Push to exit" button.
    - f. Electrical outputs shall be either opened for predefined time, or closed manually.
    - g. Ten anonymous visitor cards shall be supported.
    - h. Each user of intercom included in phonebook shall have at least one access RFID card.
  6. Network security
    - a. Intercom shall be able to use user certificates to encrypt communication.
    - b. Intercom shall support 802.1x for network authentication.
  7. Physical security
    - a. Particular intercoms in the network shall be able to intercommunicate and perform group actions such as emergency lockdown, door release, disabling of access cards.

- b. Intercom shall be ONVIF profile S certified to provide proper interoperability with video monitoring and recording systems. Streaming of the video from the intercom shall not interfere with other operation of the unit. Up to four independent clients shall be able to be accommodated.
  - c. Intercom shall be able to test proper operation of its speaker and microphone and inform about result of such test. Test shall be manually triggered, or prescheduled.
  - d. Intercom shall be able to block predefined actions, such as user accessibility, RFID card or access code functionality to specific time on a weekly basis.
8. Additional Requirements
- a. Power Supply
    - 1) 802.3af (PoE) 48 V / 380 mA DC/Adaptor 230 V10%,
    - 2) 50/60 Hz / 12V DC
    - 3) DC power supply 12 V / 2A DC
  - b. VoIP
    - 1) Signalization SIP
  - c. Number of voice channels
    - 1) 2
  - d. Audio Codecs
    - 1) G.711, G.729
  - e. Video Codecs
    - 1) H.264, 64 – 2048 kbit/s
    - 2) H.263
    - 3) H.263+
  - f. Interfaces
    - 1) Ethernet
      - a) Connector RJ-45
      - b) Ethernet speed 10/100 BASE-T
  - g. Relay outputs
    - 1) Maximal voltage 30 V DC
    - 2) Maximal current 1 A DC
  - h. Active output 9V – 13V DC/700m
  - i. Audio & Video
    - 1) Audio
    - 2) 2 integrated microphones
    - 3) 10W D-Class amplifier
    - 4) Full duplex (AEC)
  - j. Video
    - 1) Camera 640 (H) x 480 (V)
    - 2) View angle 135° (H), 109° (V)
    - 3) IR Night Vision
  - k. Dimensions
    - 1) 217x109x83 mm (H x W x D)
    - 2) 242x136x83 mm (H x W x D) with a frame
  - l. Weight max. 2000 g
  - m. Operating temperatures from –40 to +55 °C
  - n. Cover level IP65, selected models IP69k
  - o. Mounting Boxes
    - 1) Flush Mount Box
    - 2) Plaster Mount
  - p. RFID card reader
    - 1) Supported cards



- a) Mifare Classic 1k & 4k
  - b) DESFire EV1
  - c) Mini, Plus S&X
  - d) SmartMX, Ultralight
  - e) Ultralight C
  - f) SLE44R35
  - g) My-d move (SLE66Rxx)
  - h) PayPass,
  - i) Legic Advant Calypso,
9. Additional Accessories
- a. 2N@Helios IP Security Relay
  - b. 2N@Helios IP Network Scanner
  - c. 2N@Helios IP Manager
  - d. 2N@Helios IP Mobile
  - e. 2Wire convertor
- C. Manufacture: 2N@ Helios IP Safety or Equal
1. General
- a. Intercom shall be compact unit, ant vandal design with protecting frame and orange surface.
2. Mechanical requirements
- a. Robust construction and easy to install.
  - b. No accessories for outdoor use shall be necessary.
  - c. Coverage rating IP69K.
  - d. Loudspeaker amplifier power 10W.
  - e. Two separate microphones for back up and noise cancellation.
  - f. Flush installation less than 10mm above surface.
  - g. Blue backlit round button.
  - h. Intercom shall be equipped with tamper switch which enables connection of a separate wiring to alarm system. Opening, removing or disconnecting of the intercom shall be recognizable even if the intercom is out of operation. Intercom shall be able to react on tamper switch activation with sound alarm, call triggering, sending of an email and sending of HTTP message.
3. Configuration
- a. Intercom shall support auto provisioning / triggered or automatic prescheduled updates and upgrades.
  - b. Intercom shall support DHCP option 66 function to obtain auto provisioning server address.
  - c. Automatic upgrade of firmware or update of configuration shall support TFTP or HTTP protocol.
  - d. Specific configuration file for particular unit, model, or general shall be supported.
4. Communication
- a. Following Ethernet protocols have to be supported DHCP, HTTP, HTTPS, TFTP, SMTP, 802.1x, NTP, RTP, RTSP, ONVIF, Syslog
  - b. Audible information for user about current status of the intercom using human voice instructions.
  - c. Intercom shall be interoperable with public announcement systems as both destination of announcement as well as source of announcement.
  - d. Intercom shall support multicast audio dissemination, both as source and destination.
  - e. Group of intercoms shall be able to perform basic public announcement tasks.

- f. On predefined situations, intercom shall be able to send an email with pictures from camera and predefined message text. Intercom shall be able to address every user in phonebook, or use a default general email address.
    - g. Intercom shall be able to address 1999 separate users, three numbers for each user.
- 5. Access control
  - a. Intercom shall be able to detect door opening and trigger an alarm when the door has been opened unauthorized, or if the door is left open for too long.
  - b. Intercom shall be able to communicate with external access control system using Wiegand interface or HTTP messages.
  - c. Electrical outputs shall be remotely operable by external access control system.
  - d. Intercom shall support connection of "Push to exit" button.
  - e. Electrical outputs shall be either opened for predefined time, or closed manually.
- 6. Network security
  - a. Intercom shall be able to use user certificates to encrypt communication.
  - b. Intercom shall support 802.1x for network authentication.
- 7. Physical security
  - a. Particular intercoms in the network shall be able to intercommunicate and perform group actions such as emergency lockdown, door release, disabling of access cards.
  - b. Intercom shall be able to test proper operation of its speaker and microphone and inform about result of such test. Test shall be manually triggered, or prescheduled.
  - c. Intercom shall be able to block predefined actions, such as user accessibility or access code functionality to specific time on a weekly basis.
- 8. Additional Requirements
  - a. Power Supply
    - 1) 802.3af (PoE) 48 V / 380 mA DC/Adaptor 230 V10%,
    - 2) 50/60 Hz / 12V DC
    - 3) DC power supply 12 V / 2A DC
  - b. VoIP
    - 1) Signalization SIP
  - c. Number of voice channels
    - 1) 2
  - d. Audio Codecs
    - 1) G.711, G.729
  - e. Video Codecs
    - 1) H.264, 64 – 2048 kbit/s
    - 2) H.263
    - 3) H.263+
  - f. Interfaces
    - 1) Ethernet
      - a) Connector RJ-45
      - b) Ethernet speed 10/100 BASE-T
  - g. Relay outputs
    - 1) Maximal voltage 30 V DC
    - 2) Maximal current 1 A DC
  - h. Active output 9V – 13V DC/700m
  - i. Audio
    - 1) 2 integrated microphones
    - 2) 10W D-Class amplifier
    - 3) Full duplex (AEC)

- 
- j. Dimensions
    - 1) 217x109x83 mm (H x W x D)
    - 2) 242x136x83 mm (H x W x D) with a frame
  - k. Weight max. 2000 g
  - l. Operating temperatures from -40 to +55 °C
  - m. Cover level IP65, selected models IP69
  - n. Mounting Boxes
    - 1) Flush Mount Box
    - 2) Plaster Mount
    - 3) Frame
  - 9. Additional Accessories
    - a. 2N@Helios IP Security Relay
    - b. 2N@Helios IP Network Scanner
    - c. 2N@Helios IP Manager
    - d. 2N@Helios IP Mobile
    - e. 2Wire convertor
- D. Manufacture: 2N@ Helios Uni or Equal
- 1. General
    - a. Intercom shall be compact unit, ant vandal design with protecting frame and stainless steel design.
  - 2. Mechanical requirements
    - a. Robust construction and easy to install.
    - b. Flush installation less than 10mm above surface.
    - c. Easy to exchange backlit nametags which also serve as push buttons.
    - d. Intercom shall be equipped with tamper switch which enables connection of a separate wiring to alarm system. Opening, removing or disconnecting of the intercom shall be recognizable even if the intercom is out of operation.
  - 3. Communication
    - a. Audio communication using G.711 codecs.
    - b. Following Ethernet protocols have to be supported DHCP, HTTP, HTTPS, NTP, RTP, Syslog
    - c. Visual information for user about current status of the intercom using pictograms.
    - d. Intercom shall be interoperable with public announcement systems as both destination of announcement as well as source of announcement.
    - e. Intercom shall support multicast audio dissemination, both as source and destination.
    - f. Intercom shall be able to address 2 separate users, three numbers for each user.
  - 4. Access control
    - a. One independent electric outputs for door lock etc., either active 10V DC or NO/NC relay up to 30V@1A AC/DC.
    - b. Electrical outputs shall be remotely operable by external access control system.
    - c. Electrical outputs shall be either opened for predefined time, or closed manually.
  - 5. Physical security
    - a. Intercom shall be able to block predefined actions, such as user accessibility or access code functionality to specific time on a weekly basis.
  - 6. Additional Requirements
    - a. Power supply
      - 1) 802.3af (PoE) 48 V / 380 mA DC or Adapter
      - 2) 230 V ± 10%, 50/60 Hz / 12V DC
      - 3) DC power supply 12 V / 2A DC

- b. Signaling protocol
  - 1) SIP
- c. Number of voice channels 2
- d. Audio codices G.711 PCM, 64 kbps
- 7. Additional Accessories
  - a. 2N@Helios IP Security Relay
  - b. 2N@Helios IP Network Scanner
  - c. 2N@Helios IP Manager
  - d. 2N@Helios IP Mobile
  - e. 2Wire convertor

**PART 2 – PRODUCTS (Not Used)**

**PART 3 – EXECUTION (Not Used)**

**END OF SECTION 263200**



## **Housing Authority of the City of Pittsburgh**

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### **BEDFORD HOPE CENTER IMPROVEMENTS AT BEDFORD DWELLINGS, COMMUNITY PA-1-02**

**IFB#600-01-17**

**ATTACHMENT B**

Addendum 4-Attachment B  
2/27/17

\*\*\*\*\* NOTE: THE MANUFACTURERS AND CATALOG NUMBERS LISTED IN EXCISE SCHEDULE INDICATE THE BASIS OF DESIGN. COMPARABLE PRODUCTS WITH EQUIVALENT PERFORMANCE AND MEET THE PERFORMANCE CRITERIA IN PROJECT SPECIFICATIONS ARE ACCEPTABLE. SUBJECT TO REVIEW AND APPROVAL BY THE ELECTRICAL ENGINEER.

F I X T U R E S C H E D U L E (SEE NOTE ABOVE)								
LTR.	LOCATION	STYLE	MOUNTING	MANUFACTURER	CATALOG NUMBER	LAMP	VOLTS	REMARKS
A	EXTERIOR	POST TOP LUMINAIRE	EXISTING POLE	LITHONIA	DS992 LED4 ASSY/40K-WFL-WOUL-S	80 WATT LED	120	
B	MISCELLANEOUS AREAS	2' X 4' LAY IN LED	RECESSED	FREELITE	HPRLD-A-264-DOO-SO-3500K-120V-SO-C1	35.7 WATT	120	
D	EXTERIOR	REMODELER LED DOWN LT	RECESSED	SPECTROLUX	SSR 1210 LED G-40W-40K-WO-ET-CR G200-48 1089 G-4W-SO-WL	40 WATT LED	120	±11" FROM (OO)
EM	THROUGHOUT	DA BATTERY UNIT	WALL	LITHONIA	BT 30-W-41212	2-12 WATT TH	120/12	50 WATS CAPACITY
EX	THROUGHOUT	EXT SIGN	UNIVERSAL	LITHONIA	LDM-S-W-X-R-120/277-ELN	LED	120	INTERNAL BATTERY
WPOH	EXTERIOR	EM REMOTE	WALL	LITHONIA	DA-B-NK-H1212	1-12 WATT TH	12	
F	EXTERIOR	LED BRACKET	WALL	LUMINAIRE LIGHTING	YMP 1212-25W-4000-120/277-CP-BRZ-CA9/PC	25 WATT LED	120	
C	EXTERIOR	LED FLOOD LIGHT	WALL	LITHONIA	DS972LED-4-ASSY/40K-WFL-WOUL-S-000000 AFNMA	60 WATT LED	120	
H	EXTERIOR	REMODELER LED 4' STRIP	RECESSED	SPECTROLUX	SSR1212LED G-35W-40K-WO-B G2000K-412 88 G-4W-SO-WL	50 WATT LED	120	±13" FROM (OO)
K	CLOSET	4' STRIP	SURFACE	LITHONIA	Z-1-12-WOUL-CE1005	11.5278	120	