April 12, 2010

SUBJECT: FAP Route 646/673 (IL 40/116)

Project HD-000S (805)

Section (101, 103) TS-1; (102, 126) TS-3ETC

Peoria & Tazewell County

Contract No. 68970

Item No. 133, April 23, 2010 Letting

Addendum B

NOTICE TO PROSPECTIVE BIDDERS:

Attached is an addendum to the plans or proposal. This addendum involves revised and/or added material.

1. Revised pages 14 - 18 of the Special Provisions.

Prime contractors must utilize the enclosed material when preparing their bid and must include any Schedule of Prices changes in their bidding proposal.

Bidders using computer-generated bids are cautioned to reflect any and all Schedule of Prices changes, if involved, into their computer programs.

Very truly yours,

Scott E. Stitt, P.E.

Acting Engineer of Design and Environment

By: Ted B. Walschleger, P. E.

Tette Salucklyon R.E.

Engineer of Project Management

cc: Joseph E. Crowe, Region 3, District 4; Mike Renner; R. E. Anderson;

Estimates

TBW:DB:jc

FAP Route 646/673 (IL 40/116)
Project HD-000S (805)
Section (101,103)TS-1;(102,126)TS-3ETC
Peoria & Tazewell Counties
Contract No. 68970

The following items shall also be included with **switch**:

- Power Supply Qty. 1 (Aaxeon Model DR-45, 45 Watt, 12 Volt DC, Industrial Din-Rail Power Supply or Approved Equal)
- Power Strip Qty. 1

The power strip shall have a minimum of six outlets and integral surge suppression that meets or exceeds the following minimum specifications:

• Let Through Voltage: <85 Volts

• Operating Voltage: 120VAC, 50/60H

• UL Suppressed Voltage Rating: 330V

• Energy Rating: 320J

• Peak Current NM/CM: 13k Amps NM, 13k Amps CM

EMI/RFI Noise Filtration: >25-60dB

- DIN Rail, 2 ft. Section Qty. 1
- Fiber Optic Patch Cables Qty. 2 (multimode fiber, 1 meter length, duplex, ST connectors)

<u>Basis of Payment</u>: This work will be paid for at the contract unit price per each for FIBER OPTIC ETHERNET DROP AND REPEAT SWITCH which price shall be payment in full for all labor, materials, and equipment required to provide the fiber optic Ethernet drop and repeat switch and associated equipment and deliver it to the Department.

DATA NETWORK PORT ADAPTER

The Contractor shall furnish a data network port adapter complete with the accessories specified below and deliver it to the Department.

The data network port adapter shall meet or exceed the following minimum specifications:

Approved Models: MOXA Model N-Port 5210" " (2 Port RS-232 Serial Device Server, or approved equal.

LAN: • Ethernet: 10/100 Mbps, RJ45, IEEE 802.3

• Protection: Built-in 1.5 KV magnetic isolation

Number of Ports 1

• Connector(s) 8-pin RJ45

Serial Interface: • Interface: RS-232

Number of Ports: 2

Port Type: 8-Pin RJ45

Signals: TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND

• Serial Line Protection: 15 KV ESD for all signals

• Power Line Protection: 4 KV Burst (EFT), 2 KV Surge

(Power)

FAP Route 646/673 (IL 40/116)
Project HD-000S (805)
Section (101,103)TS-1;(102,126)TS-3ETC
Peoria & Tazewell Counties
Contract No. 68970

Serial Communication Parameters:

• Parity: None, Even, Odd, Space, Mark

Data Bits: 5, 6, 7, 8Stop Bit: 1, 1.5, 2

Flow Control: RTS/CTS, XON/XOFF, DTR/DSR

• Transmission Speed: 110 bps to 230.4 Kbps (Bi-

Directional Data Transmission)

Software Features:

 Protocols: ICMP, IP, TCP, UDP, DHCP, BOOTP, Telnet, DNS, SNMP, HTTP, SMTP, SNTP

 Real COM/TTY Drivers:Windows 95/98/ME/NT/2000/XP/2003 Real COM drivers

 Configuration: Web Browser, Serial/Telnet Console, or Windows Utility

 The data network port adaptor shall include software that can be installed on a workstation to provide access to all adapters through the use of software selectable and assignable virtual communication ports (minimum of 128 ports) on the host computer.

or res ports) on the rest some

 120 VAC (internal or external power supply) and selfsetting over-current protection shall be included

• Input Voltage 12 to 48 VDC

Power Consumption 305 mA @ 12 V max.

 Power Line Protection 1 KV burst (EN61000-4-4: EFT/B), 0.5 KV surge (EN61000-4-5)

Physical Characteristics:

• Enclosure Aluminum (1 mm), providing IP30 protection

Weight 320 g

Dimensions Without ears: 67 x 100.4 x 22 mm (2.64 x 3.95 x 0.87 in)

• With ears: 90 x 100.4 x 22 mm (3.54 x 3.95 x 0.87 in)

Environmental:

Electrical:

Operating Temperature: -32 to 131 degrees F

Operating Humidity 5 to 95% RH

• Storage Temperature -20 to 85°C (-4 to 185°F)

Other:

Both local and remote configuration and software upgrade capability

Password protection for security

<u>Basis of Payment:</u> This work will be paid for at the contract unit price each for DATA NETWORK PORT ADAPTER, which shall be payment in full for all labor, materials, and equipment required to furnish the equipment described above and deliver it to the Department.

VIDEO SERVER

The Contractor shall furnish a video server complete with the accessories specified below and deliver it to the Department.

The video server shall meet or exceed the following minimum specifications:

<u>Approved Models: Axis Communications Model 241Q (4-Port " video encoder) or approved equal.</u>

Video Compression: • (MPEG-4 Part 2)

Motion JPEG

Resolutions: • NTSC: 720x480 to 176x120

PAL: 720x576 to 176x144

Frame rate:
• H.264 Frame rate: 30/25 (NTSC/PAL) fps in all

resolutions

Motion JPEG Frame rate: 30/25 (NTSC/PAL) fps in all

resolutions

Video streaming: • Simultaneous MPEG-4 and Motion JPEG

Controllable frame rate and bandwidth

VBR/CBR MPEG-4

Image settings:

- Compression, color, brightness, contrast
- Rotation: 90°, 180°, 270°
- Aspect ratio correction
- Mirroring of images
- Text and image overlay
- Privacy mask
- Enhanced deinterlace filter

Security:

- Password protection, IP address filtering, HTTPS* encryption,
- IEEE 802.1X* network access control, digest authentication.
- user access log

Supported protocols:

 IPv4/v6, HTTP, HTTPS*, IEEE 802.1X*, QoS layer 3 DiffServ, FTP, SMTP, Bonjour, UPnP, SNMPv1/v2c/v3(MIB-II), DNS, DynDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, DHCP, ARP, SOCKS

Application Programming Interface:

Open API for software integration, including VAPIX® from Axis Communications available at www.axis.com

Intelligent video:

Video motion detection, active tampering alarm,

Alarm triggers:

• Intelligent video, external inputs, video loss

Alarm events:

- File upload via FTP, HTTP and emailNotification via email, HTTP and TCP
- External output activation

FAP Route 646/673 (IL 40/116)
Project HD-000S (805)
Section (101,103)TS-1;(102,126)TS-3ETC
Peoria & Tazewell Counties
Contract No. 68970

Video buffer:

• 9 MB pre- and post-alarm per channel

Pan/Tilt/Zoom: • Wide range of analog PTZ cameras supported

(drivers available for download at www.axis.com)

• 100 presets, guard tour, PTZ control queue

• Supports Windows compatible joysticks

Casing: • Metal casing. Standalone or wall mount

Processor and memory: • ARTPEC-2, 64 MB RAM, 8 MB Flash

• 8-20 V DC, max. 16.1 W

Connectors:
• 4 analog composite video BNC inputs, NTSC/PAL

auto-sensing

RJ-45 10BASE-T/100BASE-TX/1000BASE-T

DC terminal block: power in 8-20 V DC, max. 16.1 W

4 I/O terminal blocks with 2 configurable

inputs/outputs per channel

•

RS-485/RS-232 serial ports

Operating conditions • 0-45 °C (32-113 °F)

Humidity 20-80% RH (non-condensing)

Approvals: • EN 55022 Class B, EN 61000-3-2, EN 61000-3-3, EN

55024, EN 61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class B,ICES-003 Class B, VCCI Class B,

C-tick AS/NZS CISPR 22,EN 60950-1

Power supply PS-P: EN 60950-1, UL, CSA

Weight: • 796 g (1.75 lb.)

Included accessories:

• Power supply, mounting and connector kits,

Installation Guide, CD with installation and management tools, software and User's Manual

1 Windows decoder user license

<u>Basis of Payment:</u> This work will be paid for at the contract unit price each for VIDEO SERVER, which shall be payment in full for all labor, materials, and equipment required to furnish the equipment described above and deliver it to the Department.