April 8, 2010

SUBJECT: FAI Route 74 (I-74)

Project Federal

Section 70, 90 [(10D-1), 50] TS Peoria and Tazewell County

Contract No. 68971

Item No. 300, April 23, 2010 Letting

Addendum A

NOTICE TO PROSPECTIVE BIDDERS:

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

- 1. Replaced the Schedule of Prices.
- Revised sheet 4 of the Fold-up Plans.
- 3. Revised page ii of the Table of Contents to the Special Provisions.
- 4. Added pages 53 60 to 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.

Tete Jalucklyon P.E.

Engineer of Project Management

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

TBW:DB:ic

ILLINOIS DEPARTMENT OF TRANSPORTATION SCHEDULE OF PRICES CONTRACT NUMBER - 68971

State Job # - C-94-075-10

PPS NBR -County Name -

PEORIA- TAZEWELL-

Code - 143 - 179 -

District - 4 - 4 -

Section Number - 72,90[(10D-1),50]TS

Project Number

FEDERAL / /

* Revised: April 8, 2010

Route

FAI 74

ltem Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
X0323583	SPEED INDICATOR SIGN	CAL DA	60.000				
* X0323898	CCTV DOME CAMERA	EACH	3.000				
X0323906	CAMERA POLE 45 FT	EACH	2.000				
* X0323920	POLE MT EQUIP CAB TB	EACH	5.000				
X0324603	CB 1P 20A/120V EX CAB	EACH	6.000				
X0325049	CCTV DOME CAM MAT O	EACH	1.000				
* X0325719	FIB OPT LINK CCTV MM	EACH	3.000				
* X0325721	CCTV LOCAL CONT PANEL	EACH	3.000				
* DELETED							
* DELETED							
* X0326905	CCTV DOME CAM IP BASE	EACH	3.000				
* X0326906	CCTV DM CAM IP BAS MO	EACH	1.000				
X8710030	FIB OPT CBL 48F SM	FOOT	11,179.000				
* X8710050	FO ETN DROP REPEAT SW	EACH	6.000				
X8730027	ELCBL C GROUND 6 1C	FOOT	3,453.500				

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Route

FAI 74

ltem Number	Pay Item Description	Unit of Measure	Quantity	х	Unit Price	=	Total Price
67100100	MOBILIZATION	L SUM	1.000				
70100700	TRAF CONT-PROT 701406	L SUM	1.000				
70102635	TR CONT & PROT 701701	L SUM	1.000				
81000600	CON T 2 GALVS	FOOT	430.000				
81012600	CON T 2 PVC	FOOT	3,730.000				
81012700	CON T 2 1/2 PVC	FOOT	2,160.000				
81018500	CON P 2 GALVS	FOOT	16.000				
81021330	CON P 2 PVC	FOOT	105.000				
81021340	CON P 2 1/2 PVC	FOOT	100.000				
81100300	CON AT ST 1 GALVS	FOOT	30.000				
81100400	CON AT ST 1 1/4 GALVS	FOOT	90.000				
81100600	CON AT ST 2 GALVS	FOOT	3,810.000				
81300540	JUN BX SS AS 12X12X4	EACH	4.000				
81300948	JUN BX SS AS 24X24X10	EACH	6.000				
81400700	HANDHOLE PCC	EACH	1.000				

ILLINOIS DEPARTMENT OF TRANSPORTATION SCHEDULE OF PRICES CONTRACT 68971

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Route

FAI 74

Item Number	Pay Item Description	Unit of Measure	Quantity	x	Unit Price	=	Total Price
81400720	DBL HANDHOLE PCC	EACH	3.000				
81702130	EC C XLP USE 1C 6	FOOT	4,977.000				
81702140	EC C XLP USE 1C 4	FOOT	3,531.000				
81900200	TR & BKFIL F ELECT WK	FOOT	6,320.000				
87100140	FO CAB C 62.5/125 12F	FOOT	5,313.000				
87800415	CONC FDN TY E 36D	FOOT	30.000				
87900200	DRILL EX HANDHOLE	EACH	3.000				

:				PEORIA COUNTY	TAZEWEL COUNTY	
	SUMMARY OF QUANTITIES			CONST. TYPE CODE ITSO-Y035	CONST, TYPE CODE ITS0-Y035	
СОРЕ	ITEM DESCRIPTION	UNIT	TOTAL QTY.	(HOWE AND SECURITY GRANT) 100% FED URBAN	(HOMELAND SECURITY GRANT) 100% FED URBAN	
81900200	81900200 TRENCH AND BACKFILL FOR FLECTRICAL WORK	БООТ	6320.0	430.0	5890,0	
8740014C	87400/40 FIBER OPTIC CAR FIN CONDITT NO 62 5/425 12F	TOO!	5313.0	3441.D	2172.0	
	- 15	2	200	2.1.10	21120	
8780041	87800415 CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	30.0	15.0	15.0	
87900200	87900200 DRILL EXISTING HANDHOLE	EACH	3,0		3.0	
Ynapaga	X0303483 SDEED INDICATOR SIGN	CALDA	0.09		008	
2007		i i	}			
X0323898	X0323898 CLOSED CIRCUIT TELEVISION DOME CAMERA	EACH	3.0	2.0	1.0	<
			}	\{\{\}	7	1
X0323900	X0323906 CAMERA POLE, 45 FT	EACH	2.0	1.0	1.0	
						<
X032392(X0323920 POLE MOUNTED EQUIPMENT CABINET, TYPE B	EACH	5.0	4.0	1.0	\leq
	23.1		<u> </u>	~~~]
X032460.	X0324603 CIRCUIT BREAKER, 1.POLE, 20 AMP, 120VIN EXISTING TSC CABINET	EACH	6.0	4.0	2.0	
X032504:	X0325049] CLOSED CIRCUIT TELEVISION DOME CAMERA (MATERIAL ONLY)	EACH	1.0	0.5	0.5	
						,
X032571	X0325719 FIBER OPTIC LINK (CLOSED CIRCUIT TELEVISION), MULTI-MODE	EACH	3.0	2.0	1.0	< _/
X032572	X0325721 CCTV LOCAL CONTROL PANEL	EACH	3.0	2.0	1.0	\mathbb{I}
{	The second secon	(){ }{			.
363269X	16926965 CLOSED-CIRCUIT TELEVISION DONE CAMERA, IPBASED	FACH	3.0	2.0	1.0	<u>~</u>
X032690	X0326406 CLOSED-CIRCUIT TELEVISION DOME CAMERA, 1P BASED (MATERIAL	EACH	1.0	1.0		$\stackrel{\langle }{\sim}$
		{	{			
X871003	FIBER OPTIC CABLE 48 FIBERS, SINGLE MODE	FOOT	11179.0	2015.0	9164.0	<
0S00[8X]	PIBER OPTIC ETHERNET DROP AND REPEAT SWITCH	EACH	0)	4.0	L.S.2	\triangleleft
X8730027	MELECIRICOABLE IN CONDUIT, GROUNDING, NO. 610.	FOOT	3453.5	1352.0	2101.5	

MREVISED 4-6-10

SUMMARY OF QUANTITIES (CONTINUED)

STA.

SCALE: NONE

COUNTY TOTAL SHEET NO. CONTRACT NO. 68971 PEORIA TAZEWELL 70,901(10D-1),501TS FAI 74 (1-74) TO STA.

22

PLOT SCALE * 100.000 '/ IN. PLOT DATE * 2/9/2010 USER NAME * howelder

STATE OF ILLINOIS
DEPARTMENT
OF TRANSPORTATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM	/ EROSION AND SEDIMENT
CONTROL DEFICIENCY DEDUCTION (BDE)	49
PAYMENTS TO SUBCONTRACTORS (BDE)	50
PERSONAL PROTECTIVE EQUIPMENT (BDE)	51
REFLECTIVE SHEETING ON CHANNELIZING DEVICES (BDE)	51
SUBCONTRACTOR MOBILIZATION PAYMENTS (BDE)	52
CLOSED-CIRCUIT TELEVISION DOME CAMERA, IP BASED	53
CLOSED CIRCUIT TELEVISION DOME CAMERA, IP BASED (MATER	RIAL ONLY)57
FIBER OPTIC DROP AND REPEAT SWITCH	58

Revised 04/08/2010

CLOSED-CIRCUIT TELEVISION DOME CAMERA, IP BASED

<u>Description</u>. This work shall consist of furnishing and installing an integrated Closed-Circuit Television (CCTV) Dome Camera Assembly with integrated video encoder, camera brackets, and all other items required for installation and operation. This assembly shall contain all components identified in the Materials Section and shall be configured as indicated on the plan sheets.

Materials.

The CCTV camera shall be an Axis Model Q6032-E Dome Camera Assembly for integration into the existing ITS system.

The Contractor shall provide all materials required to install the proposed camera on the existing combination mast arm assembly at the locations shown on the plan sheets.

The Contractor shall submit catalog cut sheets to the Department for all items (mounting brackets, hardware, etc.) that will be utilized for review prior to commencing work.

The camera shall meet or exceed the following specifications:

Camera

Video: 60 Hz (NTSC), 50 Hz (PAL)

Image Sensor 1/4" ExView HAD Progressive Scan CCD

Lens: 3.4 – 119 mm, F1.4 – 4.2, autofocus, automatic

day/night, horizontal angle of view: 1.7° - 55.8°

Minimum Illumination: Color: 0.5 lux at 30 IRE, B/W: 0.008 lux at 30 IRE

Shutter Time (NTSC): $1/30\ 000\ s - 0.5\ s$, PAL: $1/30\ 000\ s - 1.5\ s$

Pan/Tilt/Zoom: E-flip, 100 preset positions

Pan: 360° endless, 0.05 - 450°/s

Tilt: 220°, 0.05 – 450°/s

Zoom: 35x optical zoom and 12x digital zoom, total 420x zoom

Guard tour Control queue

<u>Video</u>

Video: H.264 (MPEG-4 Part 10/AVC), Motion JPEG

Resolutions: NTSC: 704x480 to 176x120, PAL: 704x576 to 176x144

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

Frame rate (M-JPEG): Up to 30/25 (NTSC/PAL) fps in all resolutions

Video streaming: Multi-stream H.264 and Motion JPEG: 3 simultaneous, individually

configured streams in max. resolution at 30/25 (NTSC/PAL) fps; more streams if identical or limited in frame rate/resolution; Controllable frame rate and bandwidth; VBR/CBR H.264

Image setting: Wide Dynamic Range (WDR), Electronic Image Stabilization

(EIS), manual shutter time, compression, color, brightness, contrast, sharpness, rotation, aspect ratio correction, Text and

image overlay, privacy mask, image freeze on PTZ

<u>Network</u>

Security: Password protection, IP address filtering, HTTPS* encryption,

IEEE 802.1X* network access control, digest authentication, user

access log

Protocols: IPv4/v6, HTTP, HTTPS*, 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

System Integration

Application Programming

Interface:

Open API for software integration, including VAPIX® from Axis

Communications available at www.axis.com

Intelligent video: Video motion detection, auto-tracking

Alarm triggers: Intelligent video, PTZ position

Alarm events: File upload via FTP, HTTP and email, Notification via email, HTTP

and TCP PTZ position, Local storage

Video buffer: 56 MB pre- and post-alarm

<u>General</u>

Casing: IP66-rated, metal casing (aluminum), acrylic (PMMA) clear dome

cover pre-mounted to casing, sunshield (polycarbonate)

Processors and Memory: ARTPEC-3, 128 MB RAM, 128 MB Flash

Power Camera: High Power over Ethernet, max. 50 W, Midspan (included): AXIS

T8124 High Power over Ethernet, Midspan 1-port 100-240 V AC,

max. 60 W

Connectors: RJ-45 for 10BASE-T/100BASE-TX, IP66-rated RJ-45 connector

kit included

Local storage: SD/SDHC memory card slot (Card is not included)

Operating Conditions: Camera unit: -40 °C to 50 °C (-40 °F to 122 °F), Arctic

Temperature Control enables camera start-up at

temperatures as low as -40 °C (-40 °F)

Approvals: EN 55022 Class B, EN 55024, EN 61000-3-2, EN 61000-3-3,

EN61000-6-1, EN 61000-6-2, FCC Part 15 Subpart B Class B, VCCI Class B, C-tick AS/NZS CISPR22, ICES-003 Class B, EN

60950-1, Midspan: EN 60950-1, GS, UL, cUL, CE

Weight: 3.5 kg (7.7 lb.)

Included Accessories: AXIS T8124 High PoE Midspan 1-port, IP66-rated RJ-45

connector kit, clear and smoked dome cover, sunshield, Installation Guide, CD with User's Manual, recording software, installation and management tools, Windows decoder 1-user

license

Environmental Enclosure/Housing

The environmental enclosure shall be designed to physically protect the integrated camera from the outdoor environment and moisture via a sealed enclosure. If the option exists in the standard product line of the manufacturer, the assembly shall be supplied with an integral sun shield. The enclosure shall be fully water and weather resistant with a NEMA 4 rating or better.

The camera dome shall be constructed of distortion free acrylic or equivalent material that must not degrade from environmental conditions. The environmental housing shall include a cameramounting bracket. In addition, the environmental housing shall include a heater, blower, and power surge protector. An integral fitting compatible with a standard 1-1/2 in (38.1 mm) NPT pipe, suitable for outdoor pendant mounting shall also be provided.

The enclosure shall be equipped with a heater controlled by a thermostat. The heater shall turn on when the temperature within the enclosure falls below 40° F (4.4°C). The heater shall turn off when the temperature exceeds 60°F (15.6°C). The heater will minimize internal fogging of the dome faceplate when the assembly is operated in cold weather.

In addition, a fan shall be provided as part of the enclosure. The fan will provide airflow to ensure effective heating and to minimize condensation.

The enclosure shall be equipped with a hermetically sealed, weatherproof connector, located near the top for external interface with power, video, and control feeds.

CCTV Dome Camera Mounting Supports

The Contractor shall furnish and install an Axis Pole Mount Bracket T91A67 (Part Number 5017-671) for camera installation on traffic signal mast arms and CCTV camera poles.

Mounting supports shall be configured as shown on the camera support detail plans and as approved by the Engineer. Mount shall be of aluminum construction with enamel or polyester powder coat finish. Braces, supports, and hardware shall be stainless steel. Wind load rating shall be designed for sustained gusts up to 90 mph (145 km/hr), with a 30% gust factor. Load rating shall be designed to support up to 75 lb (334 N). For roof or structural post/light pole mounting, mount shall have the ability to swivel inward for servicing. The mounting flange shall use standard 1-1/2 inch (38.1 mm) NPT pipe thread.

Connecting Cables and Power Supply

The Contractor shall provide outdoor rated, CAT 5E cable. One cable shall be installed from the proposed equipment cabinet to the proposed camera mounting location as shown on the plan sheets.

The High POE midspan camera power supply (included with camera) shall be installed in the proposed equipment cabinet.

The cable shall be rated for outdoor use and conform to the following specifications:

- Outdoor CMX Rated Jacket (climate/oil resistant jacket)
- UV Resistant Outer Jacket Material (PVC-UV, UV Stabilized)
- Outer Jacket Ripcord
- Designed For Outdoor Above- Ground or Conduit Duct applications
- Cat5E rated to 350MHz (great for 10/100 or even 1000mbps Gigabit Ethernet)
- Meets TIA/EIA 568b.2 Standard
- UTP. Unshielded Twist Pair
- 4 Pairs, 8 Conductors
- 24AWG, Solid Core Copper
- UL 444 ANSI TIA/EIA-568.2 ISO/IEC 11801
- RoHS Compliant

The Contractor shall purchase pre-terminated cable assemblies and utilize them whenever possible to minimize potential cable and connector problems. The pre-assembled cable assemblies shall be rated for outdoor use and be terminated with IP66 rated RJ-45 connectors.

In the event that a pre-assembled cable is not used, the Contractor shall terminate each end of the cable with an IP66 rated RJ-45 connector or utilizing connector kits furnished with the CCTV dome camera. The Contractor shall terminate the cable assembly in an environmentally controlled area and test the cable and connectors prior to installing the cable in the field.

The Department will inspect and test each cable assembly.

The Contractor shall submit catalog cut sheets to the Department for review prior to commencing work.

This work will not be paid for separately, but shall be included in the bid price for the CCTV camera.

Construction Requirements.

<u>General</u>

The Contractor shall prepare a shop drawing detailing the complete CCTV Dome Camera Assembly and installation of all components to be supplied for approval of the Engineer. Particular emphasis shall be given to the cabling and the interconnection of all of the components.

The Contractor shall install the CCTV dome camera assembly at the locations indicated in the Plans.

Programming and Testing

The Department will program and test each camera prior to installation. The Department will connect the proposed CCTV camera to the existing ITS network Ethernet switch and integrate the camera into the existing ITS video subsystem.

The Contractor shall be responsible for installing the proposed CCTV cameras on the proposed camera poles and bridge structure in accordance with the plans, specifications, and manufacturers recommended practices.

<u>Method of Measurement</u>. The closed circuit television dome camera bid item will be measured for payment by the actual number of CCTV dome camera assemblies furnished, installed, tested, and accepted.

<u>Basis of Payment</u>. Payment will be made at the contract unit price for each CLOSED CIRCUIT TELEVISION DOME CAMERA, IP BASED including all equipment, material, testing, documentation, and labor detailed in the contract documents for this bid item.

CLOSED CIRCUIT TELEVISION DOME CAMERA, IP BASED (MATERIAL ONLY)

The Contractor shall furnish one complete CCTV camera assembly with housing, mounting bracket kit, and accessories (power supplies, etc) and deliver it to the Department.

The camera shall conform to the specifications listed under the pay item for CLOSED CIRCUIT TELEVISION DOME CAMERA.

The Contractor shall also furnish the following items and deliver them to the Department:

Axis T8124 High POE-Midspan Accessory – Qty. 2

The power supply shall conform to the following specifications:

<u>General</u>

Device Type: Power injector – External

Power Device

Input Voltage: AC 100-240 V

Output connector(s): RJ-45

Power Provided: 60 Watt

Expansion / Connectivity

Interfaces: 1 x Network - RJ-45

<u>Miscellaneous</u>

Compliant Standards: CE, GS, UL

<u>Basis of Payment</u>: This work will be paid for at the contract unit price per each for CLOSED CIRCUIT TELEVISION DOME CAMERA, IP BASED (MATERIAL ONLY) which price shall be payment in full for all labor, materials, and equipment required to provide the equipment specified above and deliver it to the Department.

FIBER OPTIC DROP AND REPEAT SWITCH

The Contractor shall furnish a fiber optic drop and repeat switch (material only) complete with the accessories specified below and deliver it to the Department.

The fiber optic drop and repeat switch shall meet or exceed the following minimum specifications:

<u>Approved Models: Aaxeon Technologies Model LNX-501AG-SFP-T (4-Port 10/100/1000T + 1 SFP port Slim Industrial Ethernet Switch, Wide Operating Temperature) or approved equal.</u>

Features:

- RJ-45 Port Supports Auto MDI/MDI-X Function
- Store-and-Forward Switching Architecture
- 10Gbps Back-Plane (Switching Fabric)
- 136Kbits Memory Buffer
- 8K MAC Address Table
- 9Kbytes Jumbo Frame
- Supports Broadcast Storm Control
- Wide-Range Redundant Power Design
- Power Polarity Reserve Protect
- Overload Current Resettable Fuse Present
- Supports 4000 VDC Ethernet ESD Protection
- UL Class I, Division 2 Certified
- IP30 Rugged Aluminum Case Design
- 5-Year Warranty

Standard:	Contract No. 6897
Standard:	 IEEE 802.3 10BaseT Ethernet IEEE 802.3u 100BaseTX Fast Ethernet IEEE 802.ab 1000BaseT IEEE 802.3x Flow Control and Back-Pressure
Protocol:	CSMA/CD
Switch Architecture:	 Back-Plane (Switching Fabric): 10Gbps Packet Throughput Ability (Full-Duplex): 14.88Mpps @ 64bytes
Transfer Rate:	 14,880pps for Ethernet Port 148,800pps for Fast Ethernet Port 1,488,000pps for Gigabit Fiber Ethernet Port
MAC Address:	8K MAC Address Table
Jumbo Frame:	9 Kbytes
Memory Buffer:	• 136 Kbits
LED:	 Unit: Power 1, Power 2, Fault Ethernet Ports: Link/Activity, Speed SFP: Link/Activity
Connector:	10/100/1000T: 4 x RJ-45Mini-GBIC: 1 x SFP
Network Cable:	 10BaseT: 2-pair UTP/STP Cat. 3, 4, 5 cable EIA/TIA-568 100-ohm (100m) 100BaseTX: 2-pair UTP/STP Cat. 5 cable EIA/TIA-568 100-ohm (100m)
Power Supply:	 DC 12 ~ 48V, Redundant Power with Polarity Reverse Protect Function and Removable Terminal Block
Power Consumption:	• 4.8 Watts (Open Issue)
Reverse Polarity Protection:	• Present
Overload Current Protection:	• Present
Mechanical:	 Casing: IP30 Metal Case Dimension (W x H x D): 30 x 140 x 95 mm (1.18 x 5.51 x 3.74 in.)

Added 04/08/2010

Installation: DIN-Rail/Wall Mountable

Weight: • Unit Weight: 1 lb.

Shipping Weight: 1.5 lbs.

Operation Temperature: • Wide Operating Temperature: -40° C to 80° C (-40° F

to 176° F)

Operation Humidity: • 5% to 95% (Non-condensing)

Storage Temperature: • -40° C to 85° C

FCC Class A

• CE EN6100-4-2/EN6100-4-3/EN6100-4-4/EN6100-4-

5/EN6100-4-6

• /EN6100-4-8/EN6100-4-11/EN6100-4-12/EN6100-6-

2/EN6100-6-4

Safety: • UL, cUL, CE EN60950-1

Stability Testing: • Shock: IEC60068-2-27

Free Fall: IEC60068-2-32Vibration: IEC60068-2-6

Warranty: • 5-Year Warranty

The following items shall also be included with each switch:

- Power Supply Qty. 1 (Aaxeon Model DR-45, 45 Watt, 12 Volt DC, Industrial Din-Rail Power Supply or Approved Equal)
- SFP Fiber Optic Module Qty. 1 (Aaxeon SFP-M-T, 1.25Gbps Ethernet SFP Transceiver, Multi Mode 550M / LC / 850nm, -40°C~85°C)
- SFP Fiber Optic Module Qty. 1 (Aaxeon SFP-S10-T, 1.25Gbps Ethernet SFP Transceiver, Single Mode 10KM / LC / 1310nm, -40°C~85°C
- DIN Rail, 2 ft. section
- Fiber Optic Patch Cables Qty. 2 (multimode fiber, 1 meter length, duplex, LC to ST connectors)
- Fiber Optic Patch Cables Qty. 2 (single mode fiber, 1 meter length, duplex, LC to 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.