

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE J	PAGE OF PAGES 1 8
2. AMENDMENT/MODIFICATION NO. 0009	3. EFFECTIVE DATE 09-Apr-2003	4. REQUISITION/PURCHASE REQ. NO. W81G67-2212-3595	5. PROJECT NO.(If applicable)	
6. ISSUED BY CONTRACTING DIVISION USAGE - ST PAUL 190 5TH STREET E ST PAUL MN 55101-1638	CODE DACW37	7. ADMINISTERED BY (If other than item 6) CONTRACTING DIVISION ATTN: BILL HURLEY PHONE: 651-290-5416 MN		
8. NAME AND ADDRESS OF CONTRACTOR (No., Street, County, State and Zip Code)		X	9A. AMENDMENT OF SOLICITATION NO. DACW37-02-B-0015	
		X	9B. DATED (SEE ITEM 11) 24-Feb-2003	
			10A. MOD. OF CONTRACT/ORDER NO.	
			10B. DATED (SEE ITEM 13)	
CODE	FACILITY CODE			
11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS				
<input checked="" type="checkbox"/> The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offer <input type="checkbox"/> is extended, <input checked="" type="checkbox"/> is not extended. Offer must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended by one of the following methods: (a) By completing Items 8 and 15, and returning <u>1</u> copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.				
12. ACCOUNTING AND APPROPRIATION DATA (If required)				
13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.				
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.				
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(B).				
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:				
D. OTHER (Specify type of modification and authority)				
E. IMPORTANT: Contractor <input type="checkbox"/> is not, <input type="checkbox"/> is required to sign this document and return _____ copies to the issuing office.				
14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.) This amendment changes the specifications. The bid opening date remains unchanged.				
Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.				
15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)		
		TEL: _____ EMAIL: _____		
15B. CONTRACTOR/OFFEROR _____ (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA BY _____ (Signature of Contracting Officer)	16C. DATE SIGNED 09-Apr-2003	

SECTION SF 30 BLOCK 14 CONTINUATION PAGE

SUMMARY OF CHANGES**The following specifications have been amended:**

Section 15131, paragraph 2.6, first sentence:

Revise first sentence from "Jib crane shall be provided as shown on the drawings." to "Jib crane(s) shall be provided as shown on the drawings."

1. Electrical Changes and Clarifications to SECTION 13120:**1.1 Section 13120, Paragraph 1.3.1, Page 11:**

Change electrical requirements to read as follows:

Electrical:

- (6) Hanging lights
- (4) 110v Outlets
- (1) Light switch
- (1) 400-amp, 120/240-volt, single-phase electrical service, see Section 01140 for Power Company
- (2) Exterior wall pack lights
- (1) Pole mounted lights installed a Pump Pad 2A. See drawing sheet 5 coordinate B-4 for location.

2. Electrical Changes and Clarifications to SECTION 16920:**2.1 Section 16920, Paragraph 1.2, Page 5:**

Change paragraph to read as follows:

1.2 SCOPE OF WORK

This document provides specification requirements for the supply of multiple pump controller packages with integrated supervisory control and data acquisition systems; a new master monitoring and control system with computer workstation; and associated engineering services for the city of Wahpeton, ND. The packages will be used to operate the pumping stations associated with this flood control project. The Contractor shall factory assemble, test, install, program, and field adjust all of the equipment as specified and shown. The Contractor shall provide a complete separate master monitoring and control system. The new master monitoring and control system will be located with the existing master monitoring and control system at the city's Public Works Maintenance Facility. The completed project shall provide the city with an automatic monitoring, and control system that looks and functions like the existing master monitoring and control system. All electrical control components and software furnished by the Contractor shall be of the current model or version in production. Prototypes, non-standard configurations, and discontinued models or versions are

not allowed. Equipment shall be furnished as necessary to meet the requirements of this contract, and shall include all items necessary to provide complete and functional systems, even though individual components may not be specifically identified in the contract documents.

2.2 Section 16920, Paragraph 1.4.1, Page 7:

Change paragraph to read as follows:

1.4.1 General

The Contractor shall furnish and install complete pump controller packages with integrated supervisory control and data acquisition systems (SCADA) at each pump station as specified and shown. The Contractor shall provide a new PLC based SCADA host control panel, a new operator workstation at the city's central monitoring facility, and all PLC and SCADA host software. The Contractor shall prepare a radio path study, submit the study results, and utilize the results to implement a functional radio communications network. The Contractor shall be responsible for ensuring that all components of the master monitoring and control system are correctly programmed to look, and function like the City's existing system.

2.3 Section 16920, Paragraph 1.4.2, Page 7:

Change paragraph to read as follows:

1.4.2 Existing System Compatibility

The Contractor shall be responsible for reviewing the city's existing pump station control system, and shall assure that system provided looks and functions like to the present system. In-Control Incorporated, 10350 Jamestown Street Northeast, Minneapolis, MN 55449, ph:(763)783-9500 is responsible for the city's existing master monitoring and control system.

2.4 Section 16920, Paragraph 1.4.3.1, Page 8:

Change paragraph to read as follows:

1.4.3.1 SCADA Equipment

Supply the master monitoring and control facility with a new PLC based SCADA host control panel, personal computer workstation, and printer. Supply each pump station with a complete, coordinated SCADA wireless data-link to the master monitoring and control facility. The systems shall be configured to allow remote monitoring and control of each pump station. All systems shall include battery backup un-interruptible power supplies. The Contractor shall perform radio path studies to determine antenna location and configurations, and include radio relay stations if required. The Contractor shall furnish and install antennas and mounting masts complete with grounding system and lightning and surge protection. The Contractor shall provide radio frequency licenses for the new equipment. The frequency shall be selected to avoid

conflict with the city's 453.525-MHz frequency. Supply all equipment with lightning and surge suppression devices.

2.5 Section 16920, Paragraph 1.4.4.3, Page 8:

Change paragraph to read as follows:

1.4.4.3 Supervisory Pump Controller (SCP)

Supply properly configured pump control and monitoring systems for each pump station. Depending on station configuration provide simplex, or duplex alternating pump controllers and alarm systems. The pump controllers shall be configured to permit remote monitoring and control of all pumps including sump pumps at each station. The systems shall utilize programmable logic controllers (PLCs), and relays for control. Equipment shall include assembly instructions, installation instructions, and drawings showing all necessary inter-connections including field connections to other control components, storm water pumps, sump pumps, the radio telemetry, and the emergency generator manual transfer switch and system.

2.6 Section 16920, Paragraph 1.4.5, Page 9:

Change entire paragraph and sub-paragraphs to read as follows:

1.4.5 Support Engineering Services

1.4.5.1 Station Startup

For each flood control pump station allow a minimum of 2 workdays for on-site services to prepare for, activate, and test the operation of the pump station control system.

1.4.5.2 Configuration and Adjustments

Before or during the start up procedure, the Contractor shall properly configure and adjust each pump station control system, and adjust the liquid level on-off settings as directed by the Contracting Officer.

1.4.5.3 Master Control System Startup.

At the time of start up for each pump station, the Contractor shall make whatever modifications are necessary at the master monitoring and control facility to bring the new station "on line".

1.4.5.4 Point-by-Point Verification

The Contactor shall perform a complete point-by-point verification of all reported data at each pump station and the master monitoring and control stations.

1.4.5.5 Startup Difficulties

If startup for a required pump station fails Contracting Officer acceptance, the Contractor shall be responsible for furnishing, at no additional cost to the Government, all additional field site services

during re-startup until the Contracting Officer has determined such re-startup work has been acceptably completed.

2.7 Section 16920, Page 13:

Add the following paragraph and sub-paragraph:

1.7 DEFINITIONS

1.7.1 Look and Function

Look and function means that the SCADA host controller and operator workstation equipment and software as furnished and installed should mimic the existing system to the maximum extent possible. Graphic displays, operator commands, function and control features, and report and alarm generation should match the existing system. New features, functions, or system operations required by the bidding documents shall be implemented to perform consistent with the existing system design philosophy.

2.8 Section 16920, Page 35:

Change and renumber paragraph 2.23 and all sub-paragraphs as follows:

2.23. MASTER CONTROL STATION OPERATOR WORKSTATION COMPUTER

Computer shall be a standard desktop or tower configuration, unmodified digital computer of modular design. Computing devices, as defined in 47 CFR 15, supplied as part of the control system shall be certified to comply with the requirements of Class B computing devices and shall be labeled as set forth in 47 CFR 15.

2.23.1 Minimum Processor Operating Speed

Minimum processor operating speed shall be 1 GHz.

2.23.2 RAM Memory

Ram memory shall be minimum 256MB DDR SDRAM.

2.23.3 Minimum Power Supply

Minimum power supply shall have a capacity of 250 watts.

2.23.4 Real Time Clock (RTC)

Real time clock accurate to within plus or minus one minute per month. Battery backed for a minimum of 3 months

2.23.5 Serial Ports: Two EIA ANSI/EIA/TIA-232-F ports. Data transmission rate shall be software adjustable between 9600 and 57,600 bps.

2.23.6 Parallel Port

One enhanced parallel port.

2.23.7 SVGA Color Monitor

SVGA color monitor shall be no less than 21 inches, with a minimum resolution of 2048 by 1536 pixels/75 Hz Multi-scan, non-interlaced, and a maximum dot pitch of 0.23 millimeters. The video output card shall support at least 32 bit colors at a resolution of 2048 by 1536 at a minimum refresh rate of 75 Hz.

2.23.8 Keyboard

A 101 key, 64-character standard ASCII character set based on ANSI X3.64 and ANSI X3.154.

2.23.9 Hard Disk

Hard disk with a minimum of 100 gigabytes of formatted storage.

2.23.10 Floppy Disk Drives

One high-density floppy disk drive and controller in 90 mm 3-1/2 inch diameter size shall be provided.

2.23.11 Zip Drive: One zip drive and controller with 100 megabyte of formatted storage shall be provided.

2.23.12 Modem:

Modem shall operate on analog telephone lines 56K kbps, full duplex using asynchronous communications. It shall have an error detection, auto answer/autodial, and call progress detection. The modem shall meet the requirements of MNP-4, ITU V.42, MNP-2, MNP-3 for error correction and MNP-5, ITU V.42bis for data compression standards, and - ITU V.21, ITU V.22, ITU V.22bis, ITU V.29, ITU V.32, ITU V.32bis, ITU V.34, ITU V.90, ITU Group 3 Fax, ITU V.17, ITU V.23, ITU V.27ter, k56Flex for Analog Modulation Protocol. Model shall be suitable for operating on unconditioned voice grade telephone lines in conformance with 47 CFR 68.

2.23.13 Mouse

Wheel Mouse with minimum resolution of 16 dots per mm. 400 dots per inch.

2.23.14 CD Drive

Read/write drive with storage capacity of 650 megabytes of formatted storage, 48X speed.

2.23.15 Network Interface Card

Network interface card shall be provided for LAN equipment functions. The network interface card shall use a 16-bit interface to the data bus; it shall be supplied with an on-board RJ45 connector and transceiver for direct connection to the LAN. It shall also have an auxiliary unit input port for performing diagnostics. Onboard buffer of

at least 16K bytes shall be included to prevent the loss of data packages.

2.23.16 Uninterruptible Power Supply (UPS)

A self contained UPS suitable for installation and operation at the workstation computer shall be provided. The unit shall be sized to provide a minimum of 15 minutes of operation of the workstation computer. The UPS shall be in accordance with paragraph "UNINTERRUPTIBLE POWER SUPPLY (UPS)."

2.9 Section 16920, Paragraph 3.1.1.3, Page 36:

Change paragraph to read as follows:

3.1.1.3 Operator Workstation

The existing operator workstation includes a personal computer configured and follows:

- 1) Windows NT operating system.
- 2) Allen-Bradley RSView32 graphical monitoring and control software.
- 3) Printer.
- 4) Uninterruptible power supply.

The new operator workstation equipment and software shall be configured like the existing system. Software shall be the latest version commercially available. Hardware shall be as specified.

The Contractor shall review the look and function of the existing control program and develop the new master monitoring and control interface to match. Access to the existing system software program is not available. The Contractor shall be fully responsible for the proper documentation and operation of the delivered product. The Contractor shall develop custom report printouts for the new pump stations that present the same data in a format like those in use on the existing master monitoring and control system. The new master monitoring and control system, and programming shall be installed and on-line within 90 days of successful start-up of the first pump station. The Contractor shall, within 90 days of successful start-up of the first pump station or 45 days of successful start up of each additional pump station, whichever is longer, add that additional pump station to the new master monitoring and control system.

2.10 Section 16920, Paragraph 2.9.1, Page 28:

Change paragraph to read as follows:

2.9.1 General

UPS equipment shall be selected to provide not less than 15 minutes of operation under any load condition. The following minimum requirements for UPS equipment are based on an Invensys, Model PW9120-0700. Invensys

Powerware Division, 8609 Six Forks Road, Raleigh, NC 27615, Tel:
1.800.356.5794. "Or equal" substitution is allowed:

3. Electrical Changes and Clarifications to Contact Drawings:

3.1 Drawing R-P-W-64/002, Coordinate B-3:

Change callout "LIGHT POLE WITH RECEPTACLE" to "LIGHT POLE, TYPE D, FEED FROM NEW STORAGE BUILDING WITH 2-#8-W/GND TYPE UF-B"

3.2 Drawing R-P-W-64/008, Coordinate B-5:

Change callout "LIGHT POLE WITH RECEPTACLE" to "LIGHT POLE, TYPE D, FEED FROM PUMP STATION 4 WITH 2-#8-W/GND TYPE UF-B"

3.3 Drawing R-P-W-64/008, Coordinate E-4:

Change callout "LIGHT POLE WITH RECEPTACLE" to "LIGHT POLE, TYPE D, FEED FROM PUMP STATION 4 THROUGH POLE AT CONCETE PAD 4 WITH 2-#8-W/GND TYPE UF-B"

3.4 Drawing R-P-W-64/080, Coordinate E-4:

Change Electrical Note 4 as follows:

4. 1-IN PVC-GRS CONDUIT WITH 2C, NO. 12 RHW-2 EXTENDED FROM NEW PANEL SCP UNDERGROUND TO POLE FOUNDATION AT 24-IN DEPTH. CONTINUE CIRCUIT DIRECT BURIED TO LIGHT POLES AT CONCRETE PADS 4 AND 4A. SEE DRAWING R-P-WB-64/008 FOR LOCATION, FIXTURE TYPE, AND CIRCUIT REQUIRMENTS. PROVIDE 15-AMP, 1-P CIRCUIT BREAKER IN NEW PANEL SCP. BREAKER SHALL BE ACCESSIBLE THROUGH DEAD FRONT INNER DOOR.

(End of Summary of Changes)