

**CENTRAL KITSAP WASTEWATER TREATMENT PLANT
2009 UPGRADE PROJECT**

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SECTION 17801

OPERATOR INTERFACE SYSTEM

PART 1 GENERAL

1.01 SUMMARY

A. GENERAL:

This Section specifies the hardware and software requirements for the panel mounted graphical operator interface used primarily for local area control. Each control panel will have an operator interface (OI) station that will be programmed to provide display and control all of the PLC I/O information and operator displays for the Plant. The OI shall use an EtherNet interface suitable for communicating with Intouch I/O servers. OIs shall be industrial grade touch screen PCs loaded with Windows XP Pro and capable of operating the Plant's Intouch application.

Integrator shall program OIs, and test screen functional requirements. As such, OIs shall be shipped to the Integrator's office two weeks prior to being required on project site, and Integrator shall program and test them. OIs shall then be shipped to project site for installation by the Contractor. All shipping shall be paid by Contractor.

B. RELATED SECTIONS:

Section 17000, Instrumentation and Industrial Electronic Systems.

C. ENVIRONMENTAL REQUIREMENTS:

In accordance with Section 01800.

1.02 QUALITY ASSURANCE

A. GENERAL:

Equipment shall be UL listed or FM approved for the purpose for which it is used.

B. FACTORY TEST:

The preoperational test shall comply with the requirements of Sections 01660 and 17000.

1.03 SUBMITTALS

Procedures shall be in accordance with: Section 01300.

Items to be submitted for this specification:

1. Manufacturer's name, address and telephone number
2. Trade name, catalog model or number.
3. Layout dimensions.
4. Local manufacturer's representative name, address, and telephone number.

PART 2 PRODUCTS

2.01 ACCEPTABLE PRODUCTS

A. GENERAL:

Furnished by Owner and Installed by Contractor.

The operator interface shall be a single, self-contained, panel-mounted unit capable of meeting all of the required specifications without separate external modules. Communication interfaces, if required, shall be plug-in style and capable of installation in the operator interface unit. Enclosure shall be rated NEMA-12 as a minimum when installed.

B. MAJOR COMPONENTS:

The operator interface module shall consist of the following major components:

1. Color graphic panel
2. Touch screen
3. 300Mhz CPU
4. VGA Interface
5. Communications Interfaces: (2) RS-232, (2) USB, and Dual Realtek 8139C 10/100 Ethernet
6. Operating System: Windows XP Pro SP2

C. MANUFACTURER:

Operator interface shall be Arista 19" Industrial Touchscreen, no exceptions.

2.02 POWER SUPPLY

The operator interface shall be capable of operating from a 120VAC power source. The power source shall be provided from the control panel power supplies and be capable of

powering all operator interface functions and communications. Operator interface shall be fused for short circuit protection. Operator interface shall be UL listed for use in this application.

2.03 TROUBLESHOOTING

The operator interface module shall have built-in status checking software. Errors shall be reported via error messages on the display, and recoverable errors shall be resettable from the front panel. Nonrecoverable errors shall be resettable by cycling power off and on.

PART 3 EXECUTION

3.01 INSTALLATION

A. MOUNTING:

Following testing, the operator interface shall be mounted in the control panels as specified in Section 17110, as shown on the Drawings, and in compliance with the manufacturer's requirements.

3.02 TESTING AND TRAINING

The system tests and training shall be as specified in Sections 01660 and 17000.

****END OF SECTION****

ADDENDUM NO. 7

FB 2009-139

KITSAP COUNTY DEPARTMENT OF PUBLIC WORKS CENTRAL KITSAP WASTEWATER TREATMENT PLANT 2009 UPGRADE PROJECT

Date of Addendum No. 7: September 17, 2009

The Specifications and Contract documents for this project shall be modified as follows:

Addendum Item	Page or Drawing	Location and Description of Change
7-001	Spec TOC	REPLACE Specifications Table of Contents with the attached.
7-002	17801	ADD the attached specification section in its entirety.
7-003	02445	Section 02445.1.02A, DELETE reference ASTM A121 Specification for Zinc-Coated (Galvanized) Steel Barbed Wire.
7-004	02445	Section 02445.2.02D, DELETE the second sentence "Extension arms for barbed wire shall be steel or malleable iron."
7-005	C31	DELETE reference to "vertical privacy slat" from Detail D/C31.

There are no other changes to the original specifications other than what is attached and noted above.

END OF ADDENDUM #7