



AVEVA Distributor

126 Mill Street
Healdsburg, CA 95448
(866) WONDER N
(866) 966-3376

QUOTE**242538.5****CTYSA**

AVEVA-WW Walnut Site Integration Services

12/04/2020

Direct Opp
Revising

Ship To: CITY OF SANTA ANA
220 S. DAISY AVE
SANTA ANA, CA 92703

Attn: Servando Varela
CITY OF SANTA ANA
direct () -

fax

Bill To: CITY OF SANTA ANA
220 S. DAISY AVE
SANTA ANA, CA 92703

From: Kristen Hall
kristen.hall@california.wonderware.com
direct (707) 473-3105
main (866) 966-3376
fax (707) 473-3190

Thank you for the opportunity to offer you this quote!

Pricing valid for purchase until January 29, 2021. After January 29, 2021, please request an updated quote before placing an order.

SITE ID: 242485 City of Santa Ana, 220 S. Daisy Ave, Santa Ana California 92703

WALNUT SITE INTEGRATION SERVICES

This is a Time and Material (T&M) proposal for Wonderware California, an AVEVA Distributor, to provide an Aveva System Platform-based and OMI Migration for the City of Santa Ana. This proposal is in response to our meeting with the City on May 13, 2020.

Scope of work for this project would consist of the creation of new System Platform-based SCADA system. It would utilize standardized System Platform objects and OMI-based graphics for a single pump station. These would be developed, deployed, and tested and would act as the starting point for the replacement of the existing DYNAC-ES SCADA System. The following figure illustrates the new system architecture. Note that this assumes the existence of a domain controller along with the existing Historian and Dream Report server.

Scope of work would include:

- Design & deployment of new System Platform-based architecture (the City already has a Historian and Dream Report deployed)
- Design & development of new standard System Platform templates
- Design & development of new OMI-based graphics
- Deployment, testing, & commissioning of new system for the Walnut Pump Station
- Post-commissioning support (Up to 24 hours)
- Block of 160 T&M hours to provide support for a series of City-defined "miscellaneous" projects
- Extended T&M Support
- Travel allowance for one (1) week onsite

Specific tasks included in this project would include:

- A. Project Kickoff
- B. System design
 1. System architecture
 2. VM inventory & infrastructure
 3. Security implementation
 4. IO communications (IO Servers, OPC Servers, etc.)
 5. 3rd party system interfaces (remote site SCADA systems, etc.)
 6. User interfaces & graphics
 7. Design of new base System Platform templates:
 - a. Generator
 - b. Motor/Pump
 - c. Analog
 - d. Valve
 - e. Discrete
 - f. Communications Object with alias table (to existing Modicon M340 PLC)
 8. Design of new OMI graphics

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Pages: 1 of 7

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- a. Generator
- b. Motor/Pump
- c. Analog
- d. Valve
- e. Discrete
- f. Facility Overview
- g. Facility Communications Status
- h. Facility Alarms
- i. Qty. 4 "to be defined" graphics (Operator & "Show" screens)
- 9. Design artifacts required to document system, including:
 - a. Design requirements document
 - b. System architecture diagram
 - c. IO list
 - d. VM & infrastructure inventory
 - e. Software inventory
 - f. Test plan
 - g. Migration/rollout plan
- C. Development
 - 1. Development environment build (total of six (6) servers)
 - 2. Development of new base System Platform templates:
 - a. Generator
 - b. Motor/Pump
 - c. Analog
 - d. Valve
 - e. Discrete
 - 3. Communications Development of new graphics
 - a. Generator
 - b. Motor/Pump
 - c. Analog
 - d. Valve
 - e. Discrete
 - f. Facility Overview
 - g. Facility Communications Status
 - h. Facility Alarms
 - i. Qty. 4 "to be defined" graphics (Operator & "Show" screens)
 - 4. Object instantiation o System communications configuration
 - 5. FAT preparation
 - 6. FAT execution
 - 7. Post-FAT remediation
- D. System commissioning
 - 1. Remote deployment, testing & commissioning support (Assume up to 50 hours)
- E. Post-commissioning support
 - 1. Up to 24 hours of T&M support to make small modification and enhancements as directed by City of Santa Ana
- F. Miscellaneous Project Support
 - 1. Block of up to 160 hours of T&M support to provide services as directed by City staff
- G. Historian V2020 VM Configuration
 - 1. City is currently upgrading their existing V2017 Historian to V2020 on a physical server. This work package would take

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this V2020 Historian and move it to a new virtual server being installed as part of the System Platform project. Scope of work would include:

- Configuration of Historian on new VM server
- Renaming of existing IDAS tags to MDAS tags using Historian Tag Renaming Utility
- Migration of legacy history blocks from physical server to new virtual server

H. Extended T&M Support

1. City is requesting a block of 680 hours of additional T&M time to allow the Engineering Team to support them as they make periodic expansions to the new System Platform-based SCADA system. Intent would be for the time to be used at a rate of approximately one (1) week per month over a period of 19 months. Scope of work would include:

- Periodic reviews of City development work
- Technical assistance as requested
- Documentation assistance as requested

PROJECT RESPONSIBILITIES:

ENGINEERING TEAM

- Project technical leadership and guidance
- Perform project design, development, commissioning and support tasks as outlined above

END USER:

- Provide required project infrastructure, including:
 - Server and workstation hardware that meets project requirements
 - Server & workstation configuration including VM Hosts, virtualized servers, OS, network, virtualization, etc.
 - Server & workstation software licensing, including OS (Windows), virtualization, database, and application software
 - Wonderware and other application software licensing (e.g. Dream Report, ThinManager, etc.)
 - Make infrastructure available for project development and testing
- Provide physical access to relevant systems and equipment as required X
- Provide reliable, robust remote access to relevant systems sufficient to allow remote support
- Provide required user credentials and permissions
- Ensure that appropriate, qualified staff are readily available to assist with all aspects of the project's design, development, testing, and deployment

The following are assumptions or considerations that apply to this proposal. Deviations from these may result in schedule impact or additional costs to the client.

- All work will be performed remotely. Commissioning support could be provided onsite with additional of associated travel and living expenses
- Template count and IO based on data provided by the City for the Walnut Pump Station
- Pump station data will be acquired from existing Modicon M340 PLC.
- No modifications to PLC code is included in project scope
- Base template data content and functionality are assumed to be "nearly identical" (95+% identical) allowing the same base object to be utilized "as built" for all facility devices (e.g. single pump template will work for all pups, etc.)
- Physical installation, wiring & networking of project hardware will be performed by others
- New Historian VM Server will be preconfigured with OS, networking, Aveva software and licensing

Wonderware solutions are now AVEVA solutions: Learn more about this exciting change here:

<https://sw.aveva.com/wonderware>

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Interested in additional training? Please visit our website and view our events schedule at www.california.wonderware.com.

Access the status of your order on our Online Order Status system!! Just click on the link contained in your order confirmation to begin the login process. Once signed up you can access via www.california.wonderware.com.

KICKOFF, DISCOVERY & DESIGN

| Quantity | Part Number/Description | Availability* | Tax | Price | Extension |
|------------------|--|------------------|-----|----------|--------------------|
| 70 Line:1 | WW.CA.REMOTE-SERVICES Remote Services Hourly | 70 Estimated TBD | N | \$200.00 | \$14,000.00 |
| 7 Line:2 | WW.CA.PROJECTMANAGEMENT Consulting and Auditing is defined as services provided by a senior level employee for the purposes of project management | 7 Estimated TBD | N | \$265.00 | \$1,855.00 |
| Sub-Total | | | | | \$15,855.00 |

DEVELOPMENT

| Quantity | Part Number/Description | Availability* | Tax | Price | Extension |
|------------------|--|-------------------|-----|----------|--------------------|
| 149 Line:3 | WW.CA.REMOTE-SERVICES Remote Services Hourly | 149 Estimated TBD | N | \$200.00 | \$29,800.00 |
| 15 Line:4 | WW.CA.PROJECTMANAGEMENT Consulting and Auditing is defined as services provided by a senior level employee for the purposes of project management | 15 Estimated TBD | N | \$265.00 | \$3,975.00 |
| Sub-Total | | | | | \$33,775.00 |

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SYSTEM COMMISSIONING

| Quantity | Part Number/Description | Availability* | Tax | Price | Extension |
|--------------|--|------------------|-----|----------|-------------|
| 50 Line:5 | WW.CA.REMOTE-SERVICES Remote Services Hourly | 50 Estimated TBD | N | \$200.00 | \$10,000.00 |
| 5 Line:6 | WW.CA.PROJECTMANAGEMENT Consulting and Auditing is defined as services provided by a senior level employee for the purposes of project management | 5 Estimated TBD | N | \$265.00 | \$1,325.00 |

Sub-Total **\$11,325.00**

POST-COMMISSIONING SUPPORT

| Quantity | Part Number/Description | Availability* | Tax | Price | Extension |
|--------------|--|------------------|-----|----------|------------|
| 24 Line:7 | WW.CA.REMOTE-SERVICES Remote Services Hourly | 24 Estimated TBD | N | \$200.00 | \$4,800.00 |
| 2 Line:8 | WW.CA.PROJECTMANAGEMENT Consulting and Auditing is defined as services provided by a senior level employee for the purposes of project management | 2 Estimated TBD | N | \$265.00 | \$530.00 |

Sub-Total **\$5,330.00**

MISCELLANEOUS PROJECT SUPPORT

| Quantity | Part Number/Description | Availability* | Tax | Price | Extension |
|---------------|--|-------------------|-----|----------|-------------|
| 160 Line:9 | WW.CA.REMOTE-SERVICES Remote Services Hourly | 160 Estimated TBD | N | \$200.00 | \$32,000.00 |
| 16 Line:10 | WW.CA.PROJECTMANAGEMENT Consulting and Auditing is defined as services provided by a senior level employee for the purposes of project management | 16 Estimated TBD | N | \$265.00 | \$4,240.00 |

Sub-Total **\$36,240.00**

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V2020 HISTORIAN CONFIGURATION

| Quantity | Part Number/Description | Availability* | Tax | Price | Extension |
|---------------|--|------------------|-----|----------|------------|
| 32 Line:11 | WW.CA.REMOTE-SERVICES Remote Services Hourly | 32 Estimated TBD | N | \$200.00 | \$6,400.00 |
| 4 Line:12 | WW.CA.PROJECTMANAGEMENT Consulting and Auditing is defined as services provided by a senior level employee for the purposes of project management | 4 Estimated TBD | N | \$265.00 | \$1,060.00 |

Sub-Total **\$7,460.00**

EXTENDED T&M SUPPORT

| Quantity | Part Number/Description | Availability* | Tax | Price | Extension |
|----------------|--|-------------------|-----|----------|--------------|
| 680 Line:13 | WW.CA.REMOTE-SERVICES Remote Services Hourly | 680 Estimated TBD | N | \$200.00 | \$136,000.00 |
| 68 Line:14 | WW.CA.PROJECTMANAGEMENT Consulting and Auditing is defined as services provided by a senior level employee for the purposes of project management | 68 Estimated TBD | N | \$265.00 | \$18,020.00 |

Sub-Total **\$154,020.00**

TRAVEL & LIVING EXPENSES

Place Holder - Estimate only. Will be billed based on actual costs + 15%

| Quantity | Part Number/Description | Availability* | Tax | Price | Extension |
|--------------|---|-----------------|-----|------------|------------|
| 1 Line:15 | WW.CA.EXPENSES Expenses *Place Holder* - Estimate only. Will be billed based on actual costs + 15% | 1 Estimated TBD | N | \$5,295.00 | \$5,295.00 |

Base Quotation Pricing Summary

Availability:

- Part availability is subject to change and is based on the availability at the time this quote was created.
- Time in transit is subject to change depending on the "Ship To" address that is provided by the customer at the time the order is placed and the method in which customer requests that the part(s) ship.
- For "In Stock" parts, orders must be received by 3:00PM PST to ship same day.
- For Factory Stock parts, please allow approximately one week for delivery via our standard shipping methods.

Taxable: \$0.00

Non-Taxable: \$269,300.00

Subtotal: \$269,300.00

Fax (9.25%): \$0.00

Freight: TBD

TOTAL: **\$269,300.00**

Freight is NOT included in this total. Your final invoice may include freight charges.

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City of Santa Ana

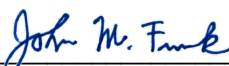
Attest

Approved as to Form

Recommended for Approval

Kristine Ridge
City Manager

Daisy Gomez
Clerk of the Council


John M. Funk
Sr. Assistant City Attorney

Nabil Saba, P.E.
Executive Director
Public Works Agency

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