



Honorable Board of Directors
Santa Clara Valley Water District (District)

Pursuant to, and in compliance with, the Notice to Bidders and the Contract Documents, relating to the

C0671 – RINCONADA WATER TREATMENT PLANT RESIDUALS REMEDIATION PROJECT, the undersigned Bidder having become thoroughly familiar with the terms and conditions of the Contract Documents and with local conditions affecting the performance and costs of the Work and having fully inspected the Work site in all particulars, hereby proposes and agrees to fully perform the Work, including providing any and all labor and materials and performing all Work required to construct and complete said Work within the contract time stated and in accordance with the requirements of the Contract Documents, for the following sum of money.

The undersigned Bidder agrees to complete all the Work within **550** calendar days from the first chargeable day of the Contract, as stated in the Notice to Begin Work. The Bidder agrees to enter into a Contract with the District and provide the required bonds and insurance in accordance with the Instructions to Bidders, Contract Bonds, paragraph #22 and Execution of Contract, paragraph #23. If the Bidder fails to meet these requirements within the time specified in the Instruction to Bidders, Failure to Execute Contract, paragraph #24, the Bidder's security accompanying this Proposal may be forfeited and become the property of the District. No Contract exists until all Contract bonds and insurance documents have been accepted by the District.

TOTAL BID: \$ \$24,527,640 **\$24,527,340 (Corrected Amount)**

Bidder acknowledges receipt of the following Addenda to the Bid Documents:

Addenda are posted online at <https://www.valleywater.org/construction>.

☐ **NO** Addenda received

☒ Addenda received as follows:

Addendum No. <u>1</u>	Date <u>6/01/2021</u>	Addendum No. <u> </u>	Date <u> </u>
Addendum No. <u>2</u>	Date <u>6/04/2021</u>	Addendum No. <u> </u>	Date <u> </u>

Failure to acknowledge receipt of an Addendum on the Bid Form is not, in itself, cause for withdrawal or rejection of Bid, if it can be established that Bidder did, in fact, receive such Addendum prior to Bid opening.

BIDDER'S COMPANY INFORMATION

NAME: THOMPSON BUILDERS CORPORATION

ADDRESS:

CONTRACTOR'S CALIFORNIA LICENSE

5400 HANNA RANCH ROAD, NOVATO
CA 94945 (PHYSICAL)

NUMBER: 626859

DATE OF EXPIRATION: 8/31/2021

P.O. BOX 6115, NOVATO CA 94945
(MAILING)


LICENSE CLASSIFICATION(S): A, B, C-17

PHONE NO.: (415) 456-8972

FAX NO.: (415) 459-0665

EMAIL ADDRESS: SHANNONM@TBCORP.COM

SIGNATURE BLOCK (Signature Block must be completed in ink and changes must be initialed.)

Bidder's Signature: 

Date: 6/09/2021

Bidder's Name and Title (Print): LEE JONES, VICE PRESIDENT



SECTION A — BASE BID

ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
1	Mobilization and Demobilization	<u>Lump Sum</u> Lump Sum	\$ 100,000.00	\$ 100,000.00
2	Engineer's Construction Office	<u>20</u> Months	\$ 7,900	158,000
3	Contractor's Internal Quality Control	<u>18</u> Months	\$ 10,000.00	\$ 180,000.00
4	Submittal of Schedule of Work	<u>Lump Sum</u> Lump Sum	\$ 75,000	75,000
5	Adjustment to Schedule, Schedule Updates and Recovery Schedule	<u>18</u> Months	\$ 3,500	63,000
6	Operations and Maintenance Documents	<u>Lump Sum</u> Lump Sum	\$ 100,000	100,000
7	Compliance with Environmental Requirements	<u>Lump Sum</u> Lump Sum	\$ 175,000	175,000
8	Demolition	<u>Lump Sum</u> Lump Sum	\$ 750,000	750,000
9	Gravity Thickeners 1 and 2 Modifications	<u>Lump Sum</u> Lump Sum	\$ 950,000	950,000



Proposal and Bid Items

This form must be completed in ink and changes must be initialed.

ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
10	Sludge Transfer System Modifications	Lump Sum Lump Sum	\$ 615,000	615,000
11	Sludge Storage Tank 1	Lump Sum Lump Sum	\$ 2,740,960	2740,960
12	Centrate Wetwell B	Lump Sum Lump Sum	\$ 1,009,600	1,009,600
13	Centrifuge Feed Pump Station	Lump Sum Lump Sum	\$ 1,287,000	1287,000
14	Solids Load-Out Structure Platforms	Lump Sum Lump Sum	\$ 590,000	590,000
15	Hiller Centrifuges and Related Services (Pre-negotiated amount)	Lump Sum Lump Sum	\$ 1,138,240.00	\$ 1,138,240.00
16	Centrifuge Shop Drawings (Pre-negotiated amount)	Lump Sum Lump Sum	\$ 29,740.00	\$ 29,740.00
17	Centrifuge System in Centrifuge Building B	Lump Sum Lump Sum	\$ 1,033,000	1,033,000
18	Conveyor Systems	Lump Sum Lump Sum	\$ 1,335,000	1,335,000
19	Polymer Feed System	Lump Sum Lump Sum	\$ 1,720,000	1,720,000



BID FORM NO. 1
Proposal and Bid Items

Page 4 of 5

This form must be completed in ink and changes must be initialed.

ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
20	Centrifuge Building B (Existing Belt Press Building) Improvements	<u>Lump Sum</u> Lump Sum	\$ 875,000	875,000
21	Centrifuge Building A (Existing Centrifuge Building) Improvements	<u>Lump Sum</u> Lump Sum	\$ 165,000	165,000
22	Yard Piping	<u>Lump Sum</u> Lump Sum	\$ 1,170,800	1,170,800
23	Site Electrical Work Including Switchgear 3 Modifications	<u>Lump Sum</u> Lump Sum	\$ 900,000	900,000
24	Control System Programming and SCADA Integration	<u>Lump Sum</u> Lump Sum	\$ 1,182,000	1,182,000
25	Operational Readiness and Functional Testing	<u>Lump Sum</u> Lump Sum	\$ 158,000	158,000
26	System Commissioning Testing	<u>Lump Sum</u> Lump Sum	\$ 157,000	157,000
27	Dispute Review Board and Professionally Facilitated Project Partnering	<u>Lump Sum</u> Lump Sum	\$ 50,000.00	\$ 50,000.00
28	All Other Work and Shoring Required by the Residuals Remediation Project	<u>Lump Sum</u> Lump Sum	\$ 3,949,000	3,949,000
SECTION A SUBTOTAL				22,456,340



SECTION B — SUPPLEMENTAL BID ITEMS				
These Bid items may or may not be required. They may be deleted entirely or in part, by deductive change order(s), at the sole discretion of the District.				
ITEM NO.	DESCRIPTION OF ITEM	APPROXIMATE QUANTITY UNIT	UNIT PRICE	TOTAL
1	Supplemental Bid Item No. 1, Replacement of Existing Centrifuge Feed Pumps	Lump Sum Lump Sum	\$ 163,000	163,000
2	Supplemental Bid Item No. 2, Sludge Storage Tank 2	Lump Sum Lump Sum	\$ 1,639,000	1,639,000
3	Supplemental Bid Item No. 3, Thickener Influent Valve Vaults	Lump Sum Lump Sum	\$ 69,000	69,000
Section B Subtotal				\$ 1,871,000
TOTAL BID (Section A Subtotal + Section B Subtotal)				\$ 24,527,640

Per ITB, corrected Amount: \$24,527,340

CALIFORNIA ACKNOWLEDGMENT

CIVIL CODE § 1189

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California

County of MARIN }

On 06/9/2021 before me, Shannon Marie Miller, Notary Public
Date Here Insert Name and Title of the Officer

personally appeared Lee Jones
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature

Signature of Notary Public

Place Notary Seal and/or Stamp Above

OPTIONAL

Completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: Bid Proposal

Document Date: _____ Number of Pages: _____

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____

☐ Corporate Officer – Title(s): _____

☐ Partner – ☐ Limited ☐ General

☐ Individual ☐ Attorney in Fact

☐ Trustee ☐ Guardian or Conservator

☐ Other: _____

Signer is Representing: _____

Signer's Name: _____

☐ Corporate Officer – Title(s): _____

☐ Partner – ☐ Limited ☐ General

☐ Individual ☐ Attorney in Fact

☐ Trustee ☐ Guardian or Conservator

☐ Other: _____

Signer is Representing: _____



250 Bel Marin Keys Blvd.
Building A
Novato, CA 94949
Phone: 415.456.8972
Fax: 415.459.0665
General Contractor
tbcorp.com

Certification by Secretary of Corporate Resolution

At the meeting of the Board of Directors of Thompson Builders Corporation, a corporation organized and existing under the laws of the state of California, duly called and held in accordance with the articles of incorporation and bylaws of the corporation at its office on July 6, 2015 at which quorum of the directors were present the following resolution was adopted to wit:

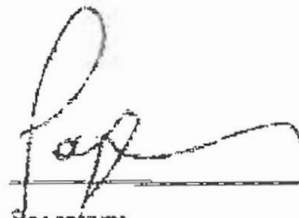
Resolved that a Lee Jones and Clayton Fraser are hereby authorized to sign contracts/agreements in the name of and on behalf of Thompson Builders Corporation.

I, Paul Thompson, Secretary of Thompson Builders Corporation do hereby certify that I am the Secretary of said corporation and that the above is a full, true, and correct copy of a resolution of the Board of Directors of said corporation, duly adopted at the meeting held on July 6, 2015 and that said resolution has not been revoked or rescinded.

In witness whereof, I have subscribed my name and affixed the seal of said corporation.

7/6/15

Date



Secretary

Contractor Information

Legal Entity Name
 THOMPSON BUILDERS CORPORATION
Legal Entity Type
 Corporation
Status
 Active
Registration Number
 1000000633
Registration effective date
 7/1/2020
Registration expiration date
 6/30/2021
Mailing Address
 250 BEL MARIN KEYS BLVD BUILDING A NOVATO 94949 CA United States o...
Physical Address
 250 BEL MARIN KEYS BLVD BUILDING A NOVATO 94949 CA United States o...
Email Address
Trade Name/DBA
License Number(s)
 CSLB:626859
 CSLB:626859

Registration History

Effective Date	Expiration Date
6/13/2018	6/30/2019
6/19/2017	6/30/2018
6/10/2016	6/30/2017
6/30/2015	6/30/2016
7/29/2014	6/30/2015
7/1/2019	6/30/2020
7/1/2020	6/30/2021

Legal Entity Information

Corporation Number: C1496979
Federal Employment Identification Number:
President Name: PAUL THOMPSON
Vice President Name: JOE HASS
Treasurer Name: PAUL THOMPSON
Secretary Name: PAUL THOMPSON
CEO Name:

Agent of Service Name: PAUL THOMPSON
Agent of Service Mailing Address: 250 BEL MARIN KEYS BLVD BUILDING A NOVATO 94949 CA United States of America

Workers Compensation

Do you lease employees through Professional Employer Organization (PEO)?: No

Please provide your current workers compensation insurance information below:

PEO Information	PEO Name	PEO Phone	PEO Email

Insured by Carrier
Policy Holder Name: THOMPSON BUILDERS CORPORATION
Insurance Carrier: ZURICH AMERICAN INSURANCE COMPANY
Policy Number: WC695489100
Inception date: 11/30/2019
Expiration Date: 11/30/2020



CONTRACTORS
STATE LICENSE BOARD
ACTIVE LICENSE



License Number **626859**

Entity **CORP**

Business Name **THOMPSON BUILDERS
CORPORATION**

Classification **BAC17**

Expiration Date **08/31/2021**

www.cslb.ca.gov

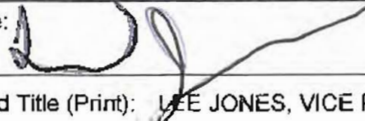


- A. This Designation of Subcontractors form must be completed in compliance with the State of California Subletting and Subcontracting Fair Practices Act, Public Contract Code §4100 et seq., and any amendment thereof. Bidder must complete the form below for each Subcontract that exceeds one-half of one percent (½%) of the Bidder's total Bid. A Subcontractor is one who: (1) performs Work or labor; or (2) provides a service to the Bidder; or (3) specially Fabricates and Installs a portion of the work according to the Contract Documents. Bidders failure to list a Subcontractor for any portion of the work in excess of ½% of Bidder's total Bid signifies Bidder will self perform that portion of the Work with its own forces. (Note: If more than one Subcontractor is designated for the same kind of Work, state the portion that each will perform.) After the opening of the Bids, no changes or substitutions will be allowed except as otherwise provided by law. The listing of more than one subcontractor for each item of work to be performed with the words "and/or" will not be permitted. Failure to comply with this requirement may render the Bid nonresponsive and may cause its rejection.
- B. Failure by a subcontractor to be registered to perform public work as required by the California Labor Code Section 1771.1 (a) shall be grounds under Section 4107 of the Public Contract Code for the Contractor, with the consent of the awarding authority, to substitute a subcontractor who is registered to perform public work pursuant to Section 1725.5 in place of the unregistered subcontractor.

NAME	LICENSE NO.	DIR REGISTRATION NO.	TYPE OF WORK	% of TOTAL CONTRACT
LOCATION (City & State)	EXPIRATION DATE	EXPIRATION DATE		
CME Commercial Metals Tracy, CA	778010 4/30/22	1000000298 6/30/22	Rebar	1.5%
Weldway Steel Fab Oakdale, CA	1046028 10/31/22	10000063229 4/30/22	Steel	4.5%
FD Thomas Medford, CA	50000610403 1/31/23	1000000093 6/30/23	Coatings / Painting	2.2%
James Long (LCS) Sacramento, CA	821827 7/31/21	1000000065 6/30/22	Mechanical	0.75%
(LS) Denelli Plumbing Foster City, CA	(LS) 801472 11/30/21	(LS) 10000000999 6/30/22	Plumbing (LS)	X (LS)
Telstar Instruments Concord, CA	422364 5/31/22	1000000899 6/30/22	Electrical	25.5%

SIGNATURE BLOCK (Signature Block must be completed in ink and changes must be initialed.)

Bidder's Signature:



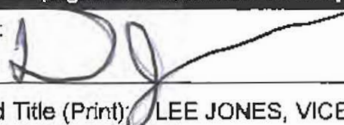
Date: 6/09/2021

Bidder's Name and Title (Print): LEE JONES, VICE PRESIDENT



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NAME	LICENSE NO.	DIR REGISTRATION NO.	TYPE OF WORK	% of TOTAL CONTRACT
LOCATION (City & State)	EXPIRATION DATE	EXPIRATION DATE		
			Gibberane LS	

SIGNATURE BLOCK (Signature Block must be completed in ink and changes must be initialed.)	
Bidder's Signature: 	Date: 6/09/2021
Bidder's Name and Title (Print): LEE JONES, VICE PRESIDENT	



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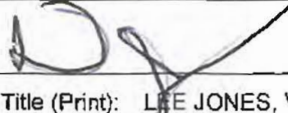
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Bidder's Signature:  Date: 6/09/2021

Bidder's Name and Title (Print): LEE JONES, VICE PRESIDENT

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LOCATION (City & State)	EXPIRATION DATE	EXPIRATION DATE		

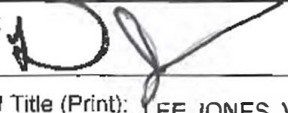
SIGNATURE BLOCK (Signature Block must be completed in <i>ink</i> and changes must be <i>initialed</i> .)	
Bidder's Signature: 	Date: 6/09/2021
Bidder's Name and Title (Print): LEE JONES, VICE PRESIDENT	



In accordance with Public Contract Code Section 7106, LEE JONES
(Bidder's full name)
declares that he or she is VICE PRESIDENT
(Bidder's title)
of THOMPSON BUILDERS CORPORATION
(Company's name)

the party making the foregoing Bid that the Bid is not made in the interest of, or on behalf of, any disclosed person, partnership, company, association, organization, or corporation; that the Bid is genuine and not collusive or sham; that the Bidder has not directly or indirectly induced or solicited any other Bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any Bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the Bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the Bid price of the Bidder or any other Bidder, or to fix any overhead, profit, or cost element of the Bid price, or of that of any other Bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the Bid are true; and, further, that the Bidder has not, directly or indirectly, submitted the Bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, Bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

I certify (or declare) under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

SIGNATURE BLOCK (Signature Block must be completed in <i>ink</i> and changes must be <i>initialed</i> .)	
Bidder's Signature: 	Date: 6/09/2021
Bidder's Name and Title (Print): LEE JONES, VICE PRESIDENT	



BE IT KNOWN BY THESE PRESENTS,

That we, Thompson Builders Corporation, as PRINCIPAL,
and Market Insurance Company, as SURETY,

are held and firmly bound unto the Santa Clara Valley Water District, hereinafter called the District, in the penal sum of TEN PERCENT (10%) OF THE TOTAL AMOUNT OF THE PROPOSAL of the Principal above named, submitted by said Principal to the Santa Clara Valley Water District, for the work described below, for the payment of which sum is lawful money of the United States, well and truly to be made, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents. In no case shall the liability of the surety hereunder exceed the sum of 5 10% of the Total Amount Bid.

THE CONDITION OF THIS OBLIGATION IS SUCH,

That whereas the Principal has submitted the above mentioned Proposal to the District, for certain construction specifically described as follows, for which Proposals are to be opened at San Jose, California, on June 9, 2021, (or such other date as specified per Addendum) for

C0671 - RWTP RESIDUALS REMEDIATION PROJECT

NOW, THEREFORE, if the aforesaid Principal is awarded the Contract and, within the time and manner required under the Contract Documents, after the prescribed forms are presented to him for signature, enters into a written contract, in the prescribed form, in accordance with the Proposal, and files originals (copies are unacceptable) of the two bonds with the District, one to guarantee faithful performance and the other to guarantee payment for labor and materials, as required by law, then this obligation shall be null and void; otherwise, it shall be and remain in full force and virtue.

In the event suit is brought upon this bond by the obligee and judgment is recovered, the surety shall pay all costs incurred by the obligee in such suit, including a reasonable attorney's fee to be fixed by the court.

IN WITNESS WHEREOF, we have hereunto set our hands and seal on the 3rd day of June, 2021.

PRINCIPAL: Thompson Builders Corporation

[Signature]
Signature

Lee Jones

Name

Vice President

Title

5400 Hanna Ranch Rd,
Novato, CA 94945

Address

SURETY: Market Insurance Company

[Signature]
Signature

Jonathan Russell

Name

(Seal)

Attorney-in-Fact

Title

4521 Highwoods Parkway
Glen Allen, VA 23060

Address

NOTE: 1. Original Bidder's Bond documents with embossed seal from the Surety are required. Photocopies are unacceptable and will result in the Bid submitted being determined non-responsive.

2. Signature of those executing for Surety must be properly acknowledged.

(Rev. 04/15/2021)

Markel Insurance Company

LIMITED POWER OF ATTORNEY

Know All Men by These Presents, That MARKEL INSURANCE COMPANY (the "Company"), a corporation duly organized and existing under the laws of the State of Florida, and having its principal administrative office in Glen Allen, Virginia, does by these presents make, constitute and appoint

Patricia Drew, Deepa Noupans, Jonathan Russell, Jeff Parkhurst, Stella Winterbourne

its true and lawful Attorney-in-Fact, with full power and authority hereby conferred in its name, place and stead, to execute, acknowledge and deliver any and all bonds, recognizances, undertakings of other instruments or contracts of suretyship to include waivers to the conditions of contracts and consents of surety for, providing the bond penalty does not exceed

in Unlimited Amounts

and to bind the Company therefor as fully and to the same extent as if such bond were signed by the President, sealed with the corporate seal of the Company and duly attested by its Secretary, hereby ratifying and confirming that the said Attorney-in-Fact may do in the premises. Said appointment is made under and by authority of the following resolutions of the Board of Directors of Markel Insurance Company:

RESOLVED, that the President, any Senior Vice President, Vice President, Assistant Vice President, Secretary, Assistant Secretary or Assistant Treasurer shall be and is hereby vested with full power and authority to appoint any one or more suitable persons as Attorney(s)-in-Fact to represent and act for on behalf of the Company, subject to the following provisions:

Attorney-in-Fact may be given full power and authority for and in the name of and on behalf of the Company, to execute, acknowledge and deliver, any and all bonds, recognizances, contracts, agreements or indemnity and other conditional or obligatory undertakings, and any and all notices and documents cancelling or terminating the Company's liability thereunder, and any such instruments so executed by any such Attorney-in-Fact shall be binding upon the Company as if signed by the President and sealed and effected by the Secretary.

FURTHER RESOLVED, that the signature of any authorized officer and seal of the Company heretofore or hereafter affixed to any power of attorney be any certificate relating thereto by facsimile, and any power of attorney or certificate bearing facsimile signature or facsimile seal shall be valid and binding upon the Company with respect to any bond or undertaking to which it is attached.

In Witness Whereof, MARKEL INSURANCE COMPANY has caused these presents to be signed by its Vice President, and its corporate seal to be hereto affixed this 24th day of February, 2021

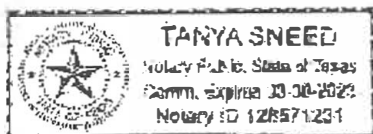
State of Texas
Travis County



MARKEL INSURANCE COMPANY

By:
Lindsey L. Jennings, Vice President

On this 24th day of February, 2021 before me personally came Lindsey L. Jennings, to me known, who being by me duly sworn, did depose and say that he resides in Travis County, Texas, that he is Vice President of MARKEL INSURANCE COMPANY, the company described in and which executed the above instrument; that he knows the seal of said Company; that the seal affixed to said instrument is such corporate seal; that it was so affixed by order of the Board of Directors of said Company; and that he signed his name thereto by like order.



By:
Tanya Sneed, Notary Public
My commission expires 3/08/2023

I, Andrew H. Marquis, Assistant Secretary of MARKEL INSURANCE COMPANY, do hereby certify that the above and foregoing is true and correct copy of a Power of Attorney, executed by said Company, which is still in full force and effect; and furthermore, the resolutions of the Board of Directors, set out in the Power of Attorney are in full force and effect.

Given under my hand and the seal of said Company at Austin, Texas this 3rd day of June, 2021

By:
Andrew H. Marquis
Assistant Secretary

Any instrument issued in excess of the penalty stated above is totally void and without any validity. 510579
For verification of the authority of this Power you may call (713) 832-0800 on any business day between 8:30 AM and 5:00 PM CST.

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

STATE OF CALIFORNIA

County of Sacramento }

On 6/3/21 before me, E. Johnson, Notary Public
Date Insert Name of Notary Exactly as it appears on the official seal.

personally appeared Jonathan Russell

Name(s) of Signer(s)



who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

Witness my hand and official seal

Signature

E. Johnson
Signature of Notary Public

Place Notary Seal Above

OPTIONAL

Though the information below is not required by law, it may prove valuable to persons relying on the document and could prevent fraudulent removal and reattachment of the form to another document.

Description of Attached Document

Title or Type of Document: _____

Document Date: _____ Number of Pages: _____

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: Jonathan Russell

- ☐ Individual
☐ Corporate Officer — Title(s): _____
☐ Partner ☐ Limited ☐ General
☒ Attorney in Fact
☐ Trustee
☐ Guardian or Conservator
☐ Other: _____

RIGHT THUMBPRINT
OF SIGNER

Top of thumb here

Signer is Representing _____

Signer's Name: _____

- ☐ Individual
☐ Corporate Officer — Title(s): _____
☐ Partner ☐ Limited ☐ General
☐ Attorney in Fact
☐ Trustee
☐ Guardian or Conservator
☐ Other: _____

RIGHT THUMBPRINT
OF SIGNER

Top of thumb here

Signer is Representing _____

CALIFORNIA ACKNOWLEDGMENT

CIVIL CODE § 1189

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California

County of Marin

On 6/03/2021

Date

before me,

Shannon Marie Miller, Notary Public

Here Insert Name and Title of the Officer

personally appeared

Lee Jones

Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.



Place Notary Seal and/or Stamp Above

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature

Signature of Notary Public

OPTIONAL

Completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

Description of Attached Document

Title or Type of Document: _____

Document Date: _____ Number of Pages: _____

Signer(s) Other Than Named Above: _____

Capacity(ies) Claimed by Signer(s)

Signer's Name: _____

☐ Corporate Officer – Title(s): _____

☐ Partner – ☐ Limited ☐ General

☐ Individual ☐ Attorney in Fact

☐ Trustee ☐ Guardian or Conservator

☐ Other: _____

Signer is Representing: _____

Signer's Name: _____

☐ Corporate Officer – Title(s): _____

☐ Partner – ☐ Limited ☐ General

☐ Individual ☐ Attorney in Fact

☐ Trustee ☐ Guardian or Conservator

☐ Other: _____

Signer is Representing: _____



Iran Contracting Act Bid Certification
(Public Contract Code Sections 2202–2208)
Must be Completed for any Proposal of \$1,000,000 or more

Public Contract Code (PCC) Sections 2200–2208 are known as the Iran Contracting Act of 2010 and prohibit public entities from contracting with companies that have specified business activities in Iran’s petroleum sector. Companies seeking to bid on state or local government contracts are required to certify that they are not engaged in developing Iran’s petroleum resources.

Prior to bidding on, submitting a proposal or executing a contract or renewal for a Santa Clara Valley Water District contract for goods or services of one million dollars (\$1,000,000 or more), a person (vendor, firm, corporation, etc.) must either: a) certify it is not on the current list of persons engaged in investment activities in Iran created by the California Department of General Services (“DGS”) pursuant to Public Contract Code Section 2203(b) and is not a financial institution extending twenty million dollars (\$20,000,000) or more in credit to another person, for 45 days or more, if that other person will use the credit to provide goods or services in the energy sector in Iran and is identified on the current list of persons engaged in investment activities in Iran created by DGS; or b) demonstrate it has been exempted from the certification requirement for that solicitation or contract pursuant to Public Contract Code Section 2203(c) or (d). The DGS list is posted online at: (www.dgs.ca.gov, search “Iran Contracting Act List”).

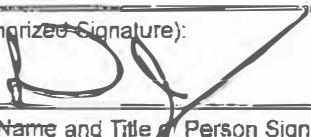
To comply with this requirement, please complete one of the options below. Please note: California law establishes penalties for providing false certifications, including civil penalties equal to the greater of \$250,000 or twice the amount of the contract for which the false certification was made; contract termination; and three-year ineligibility to bid on contracts. (Public Contract Code Section 2205.)



Please complete one of the options below (see prior page for additional explanation).

OPTION NO. 1—CERTIFICATION

I, the official named below, certify I am duly authorized to execute this certification on behalf of the person/financial institution identified below, and the person/financial institution identified below is not on the current list of persons engaged in investment activities in Iran created by DGS and is not a financial institution extending twenty million dollars (\$20,000,000) or more in credit to another person/vendor, for 45 days or more, if that other person/vendor will use the credit to provide goods or services in the energy sector in Iran and is identified on the current list of persons engaged in investment activities in Iran created by DGS.

Name of Person (Vendor, Firm, Corporation, etc.)/Financial Institution (Printed):		Federal ID No. (or n/a):
THOMPSON BUILDERS CORPORATION		68-0250401
By (Authorized Signature): 		
Printed Name and Title of Person Signing:		
LEE JONES, VICE PRESIDENT		
Date Executed:	Executed in (City & State):	
6/09/2021	NOVATO, CALIFORNIA	

OPTION NO. 2—EXEMPTION

Pursuant to Public Contract Code Sections 2203(c) and (d), a public entity may permit a person/financial institution engaged in investment activities in Iran, on a case-by-case basis, to be eligible for, or to bid on, submit a proposal for, or enter into or renew, a contract for goods and services.

If you have obtained an exemption from the certification requirement under the Iran Contracting Act, please fill out the information below, and attach documentation demonstrating the exemption approval.

Name of Person (Vendor, Firm, Corporation, etc.)/Financial Institution (Printed):		Federal ID No. (or n/a):
By (Authorized Signature):		
Printed Name and Title of Person Signing:		
Date Executed:	Executed in (City & State):	



Timely submission of these Forms is considered **material** by the District.

All Bidders must complete and submit this Bidder's General Information, Bid Form 7, including the required attachments. **The Bidder may be considered not responsible based on information provided on this Form.** Additional sheets may be attached as required.

1. Number of years as a contractor in construction work of this type: 32 YEARS
2. Names and titles of all officers of Bidder's firm:
PAUL THOMPSON - PRESIDENT, SECRETARY & TREASURER
JOE HASS - VICE PRESIDENT; LEE JONES - VICE PRESIDENT
CLAYTON FRASER - VICE PRESIDENT; VICKI NANCE - CFO
3. Name of person(s) who inspected site of proposed work for your firm:
Name: WENDIE VAN TIEM Date of Inspection: AT MANDATORY PRE-BID
4. Name, address, and telephone number of surety company and agent who will provide the required bonds for this Contract:
MARKEL INSURANCE COMPANY
AGENT: EDGEWOOD PARTNERS INSURANCE CENTER (EPIC)
13901 WILLOW PASS ROAD, CONCORD CA 94950
800-234-6363
5. Résumé of Designated Authorized Representative: Attach the résumé of the person who will be designated as authorized representative. **The Contractor's authorized representative must have requisite background and experience to administer and oversee the Work on behalf of the Contractor. The representative must have complete authority to represent and act for the Contractor as stated in Standard Provisions, Contractor Staffing, Article 3.03.**
6. Prior Construction Contracts: Bidder must provide at least two (2) construction contracts similar in scope and complexity to this Project that your organization has performed during the last 5 years. Use the PRIOR CONSTRUCTION CONTRACTS form (page 3 of this Bid Form 7) for each project.
7. Claims and lawsuits: if the answer to any of the questions below is "yes" explain the circumstances on an attached sheet.
 - 7.1 Has your organization ever failed to complete an awarded contract?
☐ Yes ☒ No



7.2 Are there any judgments, claims, alternate dispute resolution proceedings or suits pending or outstanding against your organization or its officers?

☐ Yes ☒ No

7.3 Has your organization filed any lawsuits or requested an alternate dispute resolution with regard to construction contracts within the last 5 years?

☒ Yes ☐ No See Lafayette

8. The Bidder hereby declares that the Bidder has not been convicted, within the preceding 3 years, of any charge of fraud, bribery, collusion, conspiracy, or any other act in violation of any state or federal antitrust law in connection with the bidding upon, award of, or performance of any public work contract with any public entity. The term "Bidder" includes any partner, member, officer, director, responsible managing officer, or responsible managing employee thereof. Correct

9. Has the Bidder, any officer of the Bidder, or any employee of the Bidder who has a proprietary interest in the Bidder, ever been disqualified, removed or otherwise prevented from bidding on, or completing a federal, state, or local government project because of a violation of law or a safety regulation?

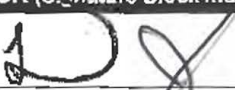
☐ Yes ☒ No

If the answer is "yes," explain the circumstances in the following space:

10. The Bidder signing for Contractor certifies that neither Bidder nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any federal department or agency.

District reserves the right to verify the above information.

I STATE UNDER PENALTY OF PERJURY THAT EACH AND ALL OF THE STATEMENTS I HAVE MADE IN RESPONSE TO PARAGRAPHS 8, 9 & 10 ABOVE ARE TRUE AND CORRECT.

SIGNATURE BLOCK (Signature Block must be completed in ink and changes must be initialed.)	
Bidder's Signature: 	Date: 6/09/2021
Bidder's Name and Title (Print): LEE JONES, VICE PRESIDENT	



This form must be completed in ink and changes must be initialed.

PRIOR CONSTRUCTION CONTRACTS

The Bidder may make as many copies of this page as necessary. Bidder may provide the required information on an alternative document. Bidder must submit a signed original of this page 3 of Bid Form 7.

Respond to each item, indicating "none" where appropriate.

- A. Name, address, and telephone number of owner: County of Marin, Flood & Water District
Hannah Lee, 415-473-2671, 330 Civic Center Drive, San Rafael, CA 94903
- B. Name of project: Simmons Slough Water Management System
- C. Location of project: Novato, CA
- D. Brief description of the work involved: Culvert Site Work & Improvements
- E. Contract amount: \$2,892,007
- F. Claims amount: None
- G. Liquidated damages assessed: None
- H. Date of completion of contract: In Progress
- I. Name, address, and telephone number of design firm's architect or engineer:
Wood Rogers; 510-286-9804, 180 Grand Avenue, Oakland
- J. Name of owner's project manager: Hannah Lee
- K. Declaration of Default (Yes or No): No
- L. Litigation on questions of project performance: None
- M. Determination of failure to pay prevailing wages or other state and/or federally required taxes or contributions: None
- N. Citations by federal OSHA or CAL OSHA: None

District reserves the right to verify the above information

SIGNATURE BLOCK (Signature Block must be completed in ink and changes must be initialed.)

Bidder's Signature:

Date: 6/09/2021

Bidder's Name and Title (Print): LEE JONES, VICE PRESIDENT



This form must be completed in ink and changes must be initialed.

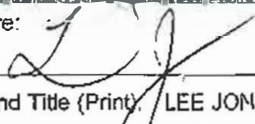
PRIOR CONSTRUCTION CONTRACTS

The Bidder may make as many copies of this page as necessary. Bidder may provide the required information on an alternative document. Bidder must submit a signed original of this page 3 of Bid Form 7.

Respond to each item, indicating "none" where appropriate.

- A. Name, address, and telephone number of owner: Main County Transit District
Adrienne Taylor, 415-226-0855, 7116 Grand Avenue, San Rafael CA
- B. Name of project: Norato Redwood & Laramie Transit Center
- C. Location of project: Norato, CA
- D. Brief description of the work involved: Extensive Site work and
Construction of Transit Center for SMART train in Norato
- E. Contract amount: \$4,001,290
- F. Claims amount: None
- G. Liquidated damages assessed: None
- H. Date of completion of contract: February 2018
- I. Name, address, and telephone number of design firm's architect or engineer:
Kappe Architects, 415-457-7801, 801 D Street, San Rafael
- J. Name of owner's project manager: Joshua Williamson, 209-370-1908
- K. Declaration of Default (Yes or No): No
- L. Litigation on questions of project performance: None
- M. Determination of failure to pay prevailing wages or other state and/or federally required taxes or contributions: None
- N. Citations by federal OSHA or CAL OSHA: None

District reserves the right to verify the above information

SIGNATURE BLOCK (Signature Block must be completed in ink and changes must be initialed.)	
Bidder's Signature: 	Date: 6/09/2021
Bidder's Name and Title (Print): LEE JONES, VICE PRESIDENT	



Water

This form must be completed in ink and changes must be initialed.

PRIOR CONSTRUCTION CONTRACTS

The Bidder may make as many copies of this page as necessary. Bidder may provide the required information on an alternative document. Bidder must submit a signed original of this page 3 of Bid Form 7.

Respond to each item, indicating "none" where appropriate.

- A. Name, address, and telephone number of owner: Caltrans
Bill Shedd, 916-385-6112, 1727 30th Street, Sacramento, CA
- B. Name of project: SFUBB Maintenance Complex
- C. Location of project: Oakland, CA
- D. Brief description of the work involved: Extensive Site work & construction of new training center complex for Caltrans
- E. Contract amount: \$22,513,716
- F. Claims amount: none
- G. Liquidated damages assessed: none
- H. Date of completion of contract: January 2020
- I. Name, address, and telephone number of design firm's architect or engineer:
Caltrans, Frank Thomas, 913-227-6228
- J. Name of owner's project manager: Bill Shedd (see above)
- K. Declaration of Default (Yes or No): no
- L. Litigation on questions of project performance: no
- M. Determination of failure to pay prevailing wages or other state and/or federally required taxes or contributions: no
- N. Citations by federal OSHA or CAL OSHA: none

District reserves the right to verify the above information.

SIGNATURE BLOCK (Signature Block must be completed in ink and changes must be initialed)	
Bidder's Signature: <u>[Signature]</u>	Date: <u>6/09/2021</u>
Bidder's Name and Title (Print): <u>LEE JONES, VICE PRESIDENT</u>	



Water

This form must be completed in ink and changes must be initialed.

PRIOR CONSTRUCTION CONTRACTS

The Bidder may make as many copies of this page as necessary. Bidder may provide the required information on an alternative document. Bidder must submit a signed original of this page 3 of Bid Form 7.

Respond to each item, indicating "none" where appropriate.

- A. Name, address, and telephone number of owner: UC Santa Cruz
Christine Ishimine-Hatfield, 831-459-4360, 1151 e High Street
- B. Name of project: Manine mammals Park Renovations
- C. Location of project: Santa Cruz, CA
- D. Brief description of the work involved: Expansion of largest dolphin pool, renovation of all existing pools
- E. Contract amount: \$7,798,626
- F. Claims amount: none
- G. Liquidated damages assessed: none
- H. Date of completion of contract: August 20-17
- I. Name, address, and telephone number of design firm's architect or engineer:
EHOD Architecture, John Christensen
(415) 295-9193
- J. Name of owner's project manager: Christine Hatfield
- K. Declaration of Default (Yes or No): no
- L. Litigation on questions of project performance: none
- M. Determination of failure to pay prevailing wages or other state and/or federally required taxes or contributions: none
- N. Citations by federal OSHA or CAL OSHA: none

District reserves the right to verify the above information.

SIGNATURE BLOCK (Signature Block must be completed in ink and changes must be initialed.)	
Bidder's Signature: <u>[Signature]</u>	Date: <u>6/09/2021</u>
Bidder's Name and Title (Print): <u>LEE JONES, VICE PRESIDENT</u>	



EDUCATION

B.S., Civil Engineering,
California Polytechnic
State University,
San Luis Obispo
paulp@tbcorp.com



PAUL PETRI

Project Manager

With over 28 years of construction experience involving new construction, modernization and public works projects, Paul has performed both as Project Manager and Superintendent with Thompson Builders Corporation for fourteen years. This combined experience has proven to be most effective as well as a benefit to all aspects of the project, serving both the Project Management and Superintendent roles.

As a Project Manager, Paul oversees and directs construction management of high-profile projects. He communicates directly with subcontractors and designers concerning project cost, staffing and scheduling. He prepares project status reports and works with the project team to ensure plans adhere to contract specifications. His responsibilities include: monthly job cost reports, CPM scheduling, review of project plans and specifications, coordination of subcontractor submittals, preparation of take-offs and material pricing, and preparation of monthly payment applications.

PAUL'S SELECT EXPERIENCE

CALTRANS 04-2G89G4, MARIN COUNTY MUIR BEACH, CA | \$2.7M

Construction of a soldier pile wall with tiebacks and embankment confined system.

CALTRANS 04-4S6604, MARIN COUNTY STINSON BEACH, CA | \$2.2M

Construction of soldier pile wall and Rock Slope Protection.

CALTRANS 04-4K8404, MARIN COUNTY STINSON BEACH, CA | \$3.5M

Construction of soldier pile and sheet pile walls.

CALTRANS 04-3S9004, MARIN COUNTY MUIR BEACH, CA | \$4.5M

Construction of roadway and soldier pile wall with ground anchors.

ALMADEN RESERVOIR ROOF REPLACEMENT, SAN JOSE, CA | \$6M

Replacement of an existing roof and structural supports for a 9 million gallon, partially below grade, potable water reservoir at the Almaden Valley Station.

CONTRA COSTA COUNTY FINANCE BUILDING, MARTINEZ, CA | \$5.7M

Hazardous materials abatement, seismic upgrade (including center coring of historical granite block wall construction), restoration of historical architectural sheet metal work and ornamental features, restoration of historical granite block, new fire sprinkler system, MEP's, ADA improvements, and finishes upgrades for the occupied, 3 level 34,000 SF historical Contra Costa County Finance Building.

MAYHEW RESERVOIR ROOF REPLACEMENT AND SEISMIC UPGRADES, FREMONT, CA | \$2.6M

This project for the Alameda County Water District included improvements to a 230' x 230' x 30' in ground reservoir, consisting of protection of the reservoir liner, dismantlement of the existing timber roof; framing of a new roof with glulam beams and cedar timber, stainless steel connectors/structural steel and new structural concrete buttresses.

MORE AVENUE RESERVOIR PROJECTS 1 & 2, LOS GATOS, CA | \$4M AND \$3M

Consisting of two separate projects performed at separate times and similar in scope, involved the seismic upgrade and renovation of an existing 9 million gallon, 300' x 300' x 35' deep, underground concrete lined drinking water reservoir. Improvements included abatement, new concrete footings, new structural steel columns, replacement of an existing timber roof structure, installation of new metal roofing, miscellaneous utility work and waterproofing of the existing slab on grade.

EAST CONTRA COSTA BART EXTENSION PROJECT TRANSFER PLATFORM & GUIDEWAY IMPROVEMENTS, PITTSBURG, CA | \$26M

Improvements to a rail transit facility in the median area of State Route 4 including demolition of existing track, construction of a new concrete access tunnel; concrete reinforcing and encasing of the existing Mokelumne Aqueduct pipeline, involving jack, boring and installation of steel casings below West Bound SR4 and 3.5 miles of new concrete median barrier walls.

PROSPECT ROAD RESERVOIR, SARATOGA, CA | \$1M

Seismic upgrade and renovation of an existing 150' diameter x 35' deep concrete drinking water reservoir including replacement of roof structure and miscellaneous utility work for the San Jose Water Company.

BART YARDS, SHOPS AND MISCELLANEOUS STRUCTURES, CONCORD, HAYWARD, RICHMOND, DALY CITY AND OAKLAND, CA | \$16.9M

This BART project consisted of structural retrofit of steel, concrete and wood structures; demolition and restoration of architectural, mechanical, electrical, and plumbing components and systems; demolition of selected existing concrete foundations, buttress walls, construction of new concrete foundations; drilled piers and shafts; provision of temporary construction facilities for BART employees and construction of the new Concord Car Cleaner's Building.

BART PARKING STRUCTURES RETROFIT, CONCORD, DALY CITY, EL CERRITO, HAYWARD, PLEASANT HILL AND WALNUT CREEK, CA | \$12.4M

This project involved structural modification to the existing BART parking structures to provide adequate resistance to forces of a major seismic event at the following six BART Station parking structures. The scope of work included major concrete demolition and removal of cantilever decks, miscellaneous slabs and retaining walls.

YERBA BUENA ISLAND W2 FOUNDATIONS OAKLAND-SF BAY BRIDGE, YERBA BUENA ISLAND, CA | \$24M

This project for the Department of Transportation consisted of poured in place concrete and post-tensioned foundations with 75mm high strength tension rods and tie down anchors. Eight, 150ft tall concrete towers were set upon these foundations, involving multiple lifts for the new Bay Bridge Self Anchored Suspension Span. The project utilized state of the art, high-strength concrete with Mass Concrete Thermal Control procedures being implemented including: liquid nitrogen, iced-concrete, and

cooling pipes with thermal couplers and a computer monitoring system to minimize thermal expansion and shrinkage. The foundations were the largest single mass concrete pour in the State of California Department of Transportation's history. Over 25,000 cubic yards of concrete was placed. The project was located on Yerba Buena Island adjacent to the existing Bay Bridge, requiring strict adherence to erosion control, traffic control and vibration control. Concrete Elements were as follows: 40,000sf+ (retaining walls and towers), smooth finish, natural color architectural concrete.



FRANK RAMOS

Superintendent



Mr. Ramos has 24 Years of experience with TB Corp and 26 years of industry experience. Mr. Ramos has overseen construction sites almost exclusively for Public sector clients in California over the past 2+ decades. As Superintendent, Mr. Ramos will be responsible for on-site activities, including subcontractor scheduling and management, self-performed labor performance, project safety and quality control. Mr. Ramos will work with the project management staff to ensure the project remains on schedule, within budget and that subcontracted and self-performed scopes meet or exceed contract requirements.

CERTIFICATION

BART Trackway Safety
Certified

OSHA 30 Certified

CPR Certification

frankr@tbcorp.com

(415) 203-1481

FRANK'S SELECT EXPERIENCE

UCSC ENVIRONMENTAL HEALTH & SAFETY FACILITY | \$13,475,000

A single story, concrete and steel structure, will include laboratory space, along with specific storage and handling rooms for radiation, chemical and universal waste. A covered loading dock is central to the material handling and packing of the waste for pick-up by licensed contractors. A driveway through the site allows for safe access by both emergency vehicles as well as large transport vehicles. Support spaces include a staff workstation and all-gender restroom, shower room and lockers. The outside gross square feet (OGSF) will be 7,305.

UCSC ACTIVE LEARNING CLASSROOM | \$3,790,000

Construction of the Active Learning Classroom includes select demolition of existing data access and adjacent rooms to create the new 7,728 Active Learning Classroom. Demolition of existing custodial closet to create new accessible unisex restroom and custodial closet. Select HVAC, plumbing, fire sprinkler, electrical, lighting, fire alarm, and telecom modifications to support new spaces.

MARINE MAMMAL POOLS RENOVATIONS PHASE #2 | \$7,640,000

Project is located at the marine vertebrate research pool yard at the Long Marine Lab (UCSC). The scope of work consists of expanding largest pool (dolphin pool) & renovating all existing pools, decks, fencing, and shade structure. The largest pool will be expanded approximately 25 ft. in length and have a new depth of approximately 30 ft.

BART UNION CITY PHASE II | \$13,543,600

This BART project consists of remodeling and expansion of the existing BART Station, including new elevators, station agent booth, and a new vestibule portion added to station and improvements to the central passageway under the BART tracks.

BART 24th & MISSION PLAZA IMPROVEMENTS | \$1,946,682

Street level site work improvement project including brick pavers, site concrete, upgraded lighting & electrical, decorative cast iron, utilities, and a structural steel and metal panel monument tower. The work was highly phased to ensure BART pedestrian access was maintained at all times.

OVERLOOK RESERVOIR | \$505,741

This project consisted of renovation of a steel tank drinking water reservoir for the San Jose Water Company. Work included demolition of existing wood roof structure with metal roof deck and replacement with steel roof structure, metal deck, and metal roof. The project also included miscellaneous utility work, electrical, coatings and cathodic protection.

PROSPECT ROAD RESERVOIR | \$1,058,453

Seismic upgrade and renovation of existing 150 diameter x 35' deep concrete drinking water reservoir including replacement of roof structure and misc. utility work for San Jose Water Company.

MORE AVENUE RESERVOIR #2 | \$3,086,429

This project for the San Jose Water Company consisted of seismic upgrade and renovation of existing 300' x 300' x 35' deep underground concrete lined drinking water reservoir including replacement of roof structure, misc. utility work and coating/waterproofing of existing slab on grade.

BART YARDS, SHOPS and MISCELLANEOUS STRUCTURES | \$16,864,777

The BART project consists of structural retrofit of steel, concrete and wood structures; demolition and restoration of architectural, mechanical, electrical, and plumbing components and systems; demolition of selected existing concrete foundations, buttress walls, construction of new concrete foundations; drilled piers and shafts; provision of temporary construction facilities for BART employees and construction of the new Concord Car Cleaner's Building. The project duration was to be for three and a half years. TB Corp was able to complete the project over one year ahead of schedule.

MILLS HIGH SCHOOL NEW CLASSROOM | \$4,247,909

Construction of a new 12,830 sf building for the San Mateo Union High School District. Project included building 9 general classrooms, a teacher's workroom, staff and student restroom and accessory space.

MILLS HIGH SCHOOL BUILDING A and LOCLER ROOM RENOVATION | \$5,890,733

Phased modernization and alterations to 59,000SF of various campus buildings at the occupied Mills High School for the San Mateo Union High School District. Work included reconfiguring room walls including new finishes to walls, floor, ceilings, doors and windows. Also included modifications to HVAC System, plumbing, electrical, lighting, voice, data, fire alarm system and fire sprinkler system.

BURLINGAME HIGH SCHOOL GYMNASIUM and CAFETERIA | \$6,025,400

Phased modernization of the existing 1-story, 27,000 SF gymnasium and 4,400SF multi-use building at the occupied Burlingame High School for the San Mateo Union High School District. The project had no staging area requiring the delivery of materials on the same day as installation.

MORGAN HILL COURTHOUSE | \$31,885,000

Construction of two buildings for the County of Santa Clara. The construction totaled approx. 90,000 sf on an unimproved 7.78 acre site. Building 1 included 2-stories with basement - 73,000 sf Superior Court facility including 6 courtrooms and related spaces; Court Clerk's Office; jury deliberation and assembly spaces; and court day-holding detention facilities. Building 2 included a single story - 17,000 sf justice agencies building containing offices for the County District attorney, Public Defender and Probation Department. Site Improvements including site utilities, storm water detention basin, parking lot and driveways, concrete sidewalks and plazas, site lighting, landscaping and other misc. features.



Contractor License #422364
Contractor DIR #1000000899

**CONTROL SYSTEM INTEGRATION • INSTRUMENTATION SERVICES
SCADA/AUTOMATION • PLC/HMI • ELECTRICAL • CALIBRATION • MAINTENANCE**

June 9, 2021

Thompson Builders Corp
5400 Hanna Ranch Road
Novato, CA 94945

Attn: Lee Jones
Subject: Process and Controls Instrumentation Certification
Reference: Santa Clara Project

Dear Lee,

Telstar Instruments hereby certifies intent to assume and execute full responsibility to Thompson Builders Corp to perform all tasks defined in full compliance with the requirements of the Contract Documents.

It is certified that the quotation to Thompson Builders Corp includes full and complete compliance with the requirements of the Contract Documents without exception.

Any questions regarding this certification can be directed to Telstar's Contracts Department via email at contracts@telstarinc.com.

Sincerely,

A handwritten signature in blue ink, appearing to read "Tammy Misenhimer".

Tammy Misenhimer
Contract Administrator
Contracts@telstarinc.com

1717 Solano Way, Unit 34, Concord, CA 94520 Phone 925-671-2888, Fax 925-671-9507
4017 Vista Park Court, Sacramento, CA 95834 Phone 916-646-1999, Fax 916-646-1096
202 South Douty Street, Hanford, CA 93230 Phone 559-584-7116, Fax 559-584-8028

CONTROLS, INC.

www.TescoControls.com

Corporate Office
8440 Florin Road, Sacramento, CA 95828
P.O. Box 299007, Sacramento, CA 95829
PH: 916.395.8800 FX: 916.429.2817

6/7/2019

TO: Bidding Contractors
ATTN: Estimating

Re: Rinconada WTP Residuals Remediation – Santa Clara Valley Water District (SCVWD)

To Whom It May Concern:

Tesco Controls, Inc. hereby certifies intent to assume and execute full responsibility to the CONTRACTOR to perform all tasks defined in full compliance with the requirements of the Contract Documents.

It is certified that the quotation offered provides for full and complete compliance with the requirements of the Contract Documents without exception.

Sincerely,

TESCO CONTROLS, INC.


Delven Diaz
Water/Wastewater Estimating Sales Manager
ddiaz@tescocontrols.com

File Ref: C:\Users\lfassio\Desktop\TESCO BID DOCS\Certification of intent.doc

Page : 1 of 1

Corporate Headquarters
8440 Florin Road
Sacramento, CA 95828
Ph: 916.395.8800
Fax: 916.429.2817

Regional Offices
Southern CA
42015 Remington Ave. #102
Temecula, CA 92590
951.308.6450

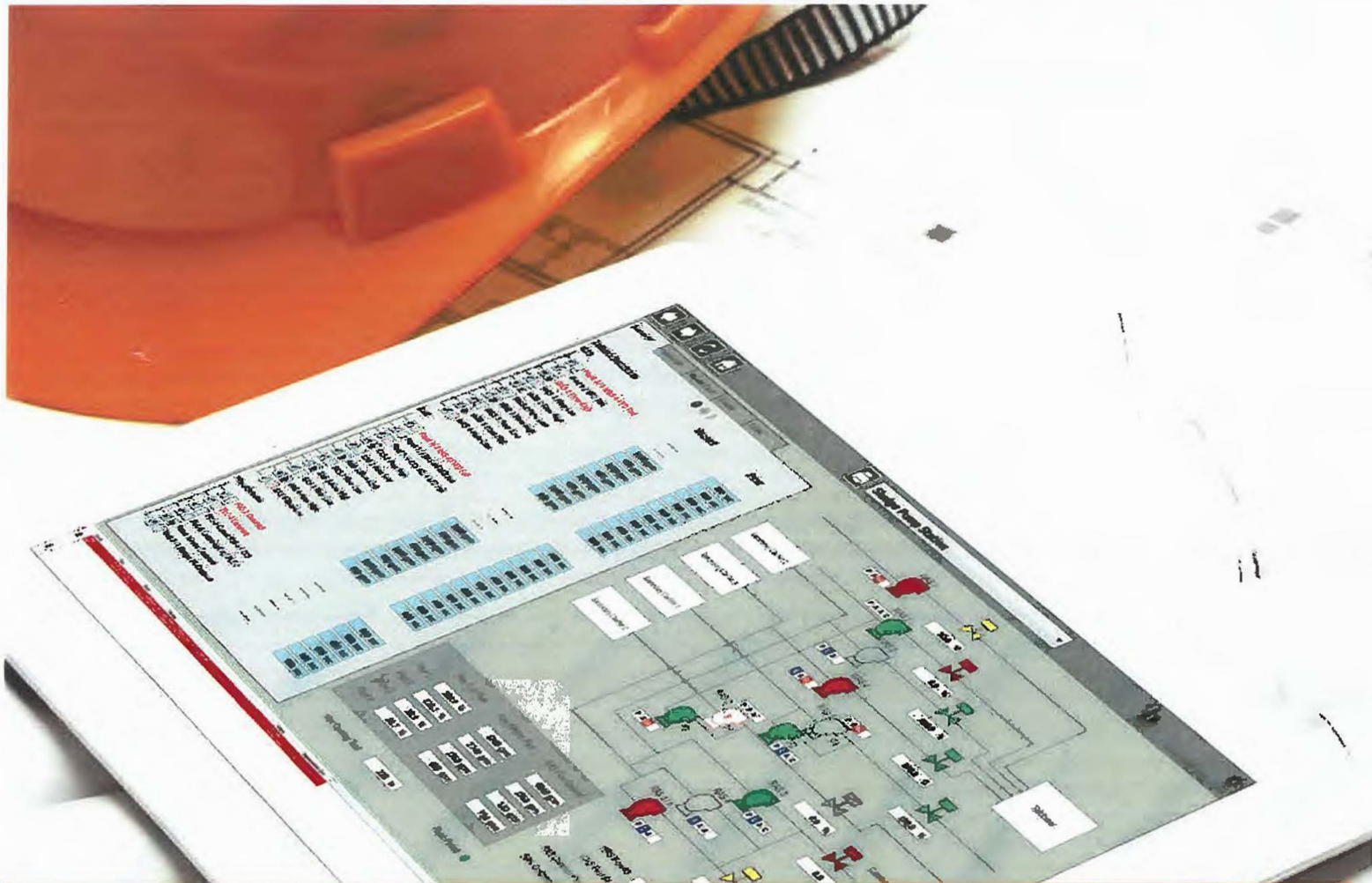
Central CA
1315-B Dayton St.
Salinas, CA 93901
831.754.6838

Nevada
213 Sage St.
Carson City, NV 89706
800.94.TESCO

Louisiana
10699 Airline Hwy. Ste. B
Baton Rouge, LA 70816
800.94.TESCO



Santa Clara Valley **WATER DISTRICT**



QUALIFICATIONS

Residuals Remediation Project

Client Ref #93294058 | June 09, 2021

TESCO
CONTROLS, INC.



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Water/Wastewater System Experts

TESCO's engineers specialize in building new and upgraded systems for large treatment plants, complex distribution and collection networks, and small improvement projects.

Unlike typical process control installations, water/wastewater designs and deployments must consider telemetry, advanced communications, regulatory compliance, and security, as well as the vital role control systems play in ensuring public health and safety.

Our subject matter experts understand the unique requirements and the challenges that industrial control system automation projects present in expediting project start-up and effectively collaborating to identify, design, and implement custom project solutions. We deliver projects involving treatment facilities, collection systems, distribution systems, pipelines, tanks and reservoirs, wells, pump stations, pressure reducing stations, lift stations, energy conservation, and renewable energy.

TESCO's in-house team includes engineering professionals with professional designations and certifications (PE and PMP):

- **Electrical engineers**
- **Instrumentation and Control System engineers**
- **Power System engineers**
- **Computer, Systems, and Software engineers**
- **Communications and Networking engineers**
- **PLC and SCADA-HMI programmers**
- **ISA-Certified Field Service engineers and technicians**

TESCO's Capabilities and Resources: With a bench of 400+ employee-owners focused exclusively in the water/wastewater industry, our in-house resources include highly-skilled electrical and control system engineers, seasoned PLC programmers, SCADA engineers, field service engineers, and an experienced project management team that excels in the delivery of SCADA system solutions. Since 1972, TESCO has:

- Completed over 50,000 projects,
- Implemented over 400 SCADA systems,
- Managed 965 SCADA maintenance contracts, and
- Successfully delivered projects for over 4,300 different water/wastewater agencies.

Our reputation is based upon providing high-quality, end-to-end services – from project management and front-end engineering to field cut-over and commissioning.

Our services ensure continuity from initial planning to final commissioning so we can deliver projects on time, on target, and on budget.

Engineering: TESCO employs a diversified staff of qualified electrical, communications, and control system engineers. Our engineers are uniquely specialized in fields related to industrial electrical, instrumentation and controls, communications, and process control systems. We are capable of providing all the services necessary to design, implement, and support systems from inception to operation.

- Instrumentation and control systems
- Electrical switchgear (UL-891)
- Network infrastructure and cybersecurity
- Radio/telemetry systems
- Power distribution systems design and analysis
- Electrical motor control equipment (UL-845)
- Industrial control panels (UL-508A & UL-698A)
- Arc Flash risk assessment and mitigation

Project Management: TESCO's Project Managers guide our multi-disciplinary teams in achieving all project goals and objectives, while honoring the preconceived project constraints – including scope, resources, time schedule, and budget.

As required, Project Management Professionals (PMP) coordinate TESCO's scope of work, as well as become involved with the overall project collaboration, coordinating with the owner, consultant, general contractor, subcontractors, and other vendor/system suppliers to ensure the requirements for project integration are met.

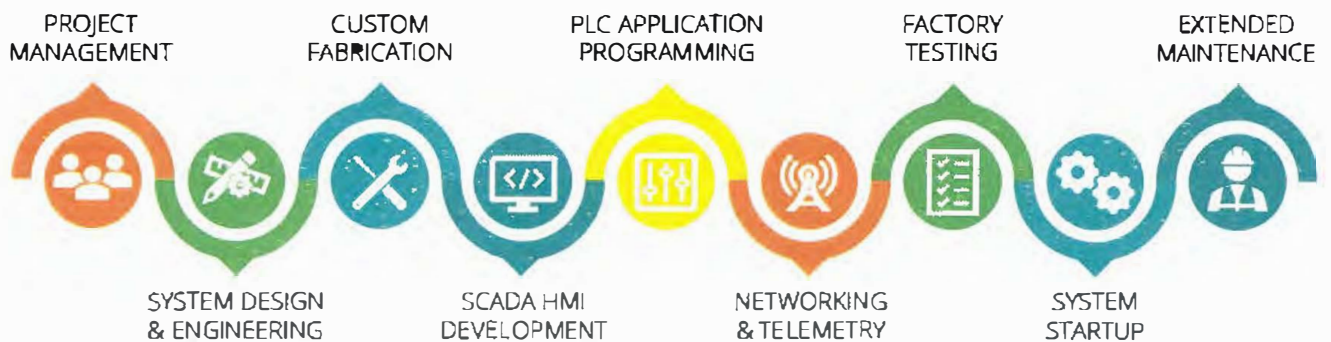
Employing PMP Certified Project Managers ensures the discipline of planning, organizing, and managing resources while addressing the successful completion of project specific goals and objectives.

SECTION 1

SYSTEM INTEGRATOR QUALIFICATIONS AND CAPABILITIES

Firm Information

Tesco Controls, Inc. (TESCO) is a full-service, Level One CSIA-certified Systems Integrator and OEM for power components with 48 years of experience specializing in the design and implementation of control solutions required to automate water/wastewater treatment systems and related processes throughout the U.S.



OEM For Equipment Providers: TESCO

is an original equipment manufacturer (OEM) for most major equipment suppliers, including **Schneider Electric**, **AVEVA**, and **General Electric (GE)**, allowing TESCO to integrate and support the complement of hardware and software deployed in control systems.

TESCO's fully-equipped manufacturing center is capable of engineering, fabricating, assembling, wiring, and testing all electrical and control systems equipment for project implementation and support.

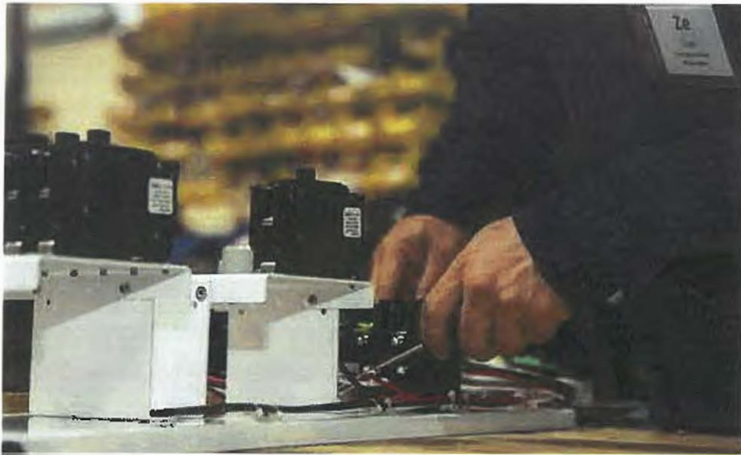
Custom Fabrication: Many projects require custom solutions that are not readily available through standard equipment manufacturers.



TESCO's 125,000 square foot, UL-listed manufacturing and production facilities are located at our Sacramento headquarters.

Whether space constraints require custom enclosures, add-ons are needed for original equipment, or standard delivery schedules will not meet project deadlines, TESCO has full in-house fabrication facilities to expedite equipment builds for project delivery needs.

All products are manufactured in accordance with UL, IEEE, NEMA, IEC, NEC and CSIA requirements.



Networking: Well-engineered network infrastructure is a critical requirement for reliable water/wastewater SCADA and process control systems. TESCO can help design, implement, and maintain network infrastructure to provide secure, robust, and fault-tolerant system architectures.

- Radio system engineering, path studies, and FCC licensing
- Data center equipment and rack design
- Backup power and cooling design
- Switching and routing
- Firewall implementation
- Network segmentation
- Network security design and industrial cybersecurity vulnerability mitigation
- Wide area private and public networks
- Fiber optic and copper-based designs
- WAN/LAN configuration

SCADA-HMI: TESCO is a leading provider of SCADA-HMI systems. We install SCADA systems nation-wide, and are certified in all major SCADA-HMI software packages.

Our team collaborates during the design phase to deliver feature-rich, field-proven SCADA-HMI programs to ensure reliable, robust and flexible control systems that fully meet the requirements of the project.

- SCADA-HMI application development
- System standards development
- Customized process displays
- Cybersecurity remediation
- Virtualized systems

- DCS and SCADA migrations
- Data backup and disaster recovery systems

Assessments: Designed to help water agencies address concerns about the reliability and sustainability of their process control systems, TESCO works collaboratively with the client to collect and document information related to their process control system automation technologies. An independent review and detailed analysis of findings is presented.

- SCADA-HMI and PLC application software backups
- SCADA and process control system (PCS) block diagrams
- Automation asset inventory spreadsheets
- Complete listing of IP networks, subnetworks, VLANs, and IP devices present in the system
- Technical report that incorporates findings, observations, and prioritized recommendations for key areas of improvement

PLC Programming: TESCO employs programming methodologies, both custom and templated, designed specifically for the water and wastewater industries. We leverage available technologies coupled with proven methods for software, communications, and hardware integration. Our team can upgrade aging systems while keeping critical plant processes online during the renovation.

*TESCO programs many devices:
PLCs, OITs, web servers, power
monitors, and auto dialers.*

Commissioning: TESCO uses a standardized approach to commissioning systems to confirm that the system performs as expected and per project requirements. Standard methods and procedures for system commissioning include: defined in phases, including:

- Factory testing
- Site testing / operational readiness testing
- Start-up / functional acceptance testing
- Switchover, commissioning
- Performance acceptance testing
- Operational and maintenance training



Custom fabrication options give clients the freedom to design solutions tailored to their needs, aesthetic, budget, and schedule.

Panel Fabrication & Staging Facilities

Our 125,000 square foot, Sacramento Headquarters and UL-Listed Manufacturing Facility, located only 90 miles away from San Francisco, facilitates agile project delivery and thorough factory testing. This fully-equipped manufacturing facility, complimented by our nearby field service and engineering offices in San Francisco and Salinas, includes a complete metal fabrication shop, powder coating paint line, wiring and assembly departments, and a dedicated factory staging and test lab. TESCO's control panels, service pedestals, and power distribution gear is manufactured in this facility, including anything we manufacture or modify acting as an OEM on behalf of Rockwell Automation.

MANUFACTURING SERVICES

TESCO manufactures at least 50 percent of the specified system in-house. Our fully-equipped manufacturing center is capable of fabricating, assembling, wiring, and testing all electrical and control systems equipment for project implementation. Our expertise in this area lends perfectly to designing and engineering all aspects of electrical distribution and control system requirements, as well as providing required equipment for turn-key, integrated solutions.

TESCO is an authorized Underwriters Laboratory (UL) manufacturer of electrical power and industrial control systems. TESCO systems are manufactured in accordance with UL, IEEE, NEMA, IEC, and NEC requirements. All assemblies adhere to strict manufacturing guidelines and quality control procedures. All phases of the manufacturing life cycle undergo an established quality control procedure to ensure the highest quality system.

TESCO incorporates the LEAN® manufacturing model in our quality control process.

TESCO's manufacturing capabilities include:

- Custom enclosures (painted galvanized steel, 316SS, 304SS, aluminum, anodized aluminum)
- Electronic assemblies (programmable controllers, instrumentation, communications)
- Custom motor control systems
- Custom and standard power distribution systems
- Custom and standard pump station power distribution and control enclosures
- Electrical, hydraulic and pneumatic instrumentation control panels

FABRICATION

CUSTOM ENCLOSURES

- (Painted Galvanized Steel, 316SS, 304SS, Aluminum, Anodized Aluminum)
- Custom enclosures manufactured in accordance with NEMA standards in variety of styles and configurations. TESCO's enclosures and paint process meet State of California Department of Transportation (Caltrans) strict traffic enclosure test requirements for vandalism, glare, and salt spray duration testing.

ELECTRONIC ASSEMBLIES (PROGRAMMABLE CONTROLLERS, INSTRUMENTATION, COMMUNICATIONS)

TESCO-manufactured electronic assemblies (PLC, RTU, communications, instrumentation, etc.) are designed to withstand harsh industrial environments. These assemblies undergo temperature testing to 200 degrees F.

CUSTOM MOTOR CONTROL SYSTEMS

As an OEM, TESCO manufactures low-voltage (600V and below) motor control centers (MCCs) that include both indoor and outdoor applications. We have UL file extensions for major MCC manufacturers and can customize their standard product offerings.

Integrated motor controls can include solid state controllers, electro-mechanical starters, variable frequency drives, reduced voltage solid start starters, panelboards, PLC control sections, and communication packages.

CUSTOM AND STANDARD POWER DISTRIBUTION SYSTEMS

TESCO is UL authorized to manufacture distribution switchgear to 4000 A. All distribution and service pedestals are designed in accordance with utility system requirements. TESCO provides a variety of switchgear configurations employing auto-transfer switches, power monitoring and control, and feeder distribution.

CUSTOM AND STANDARD PUMP STATION POWER DISTRIBUTION AND CONTROL ENCLOSURES

TESCO provides a variety of standardized pump control packages for storm water, sewage lift, well pump, and booster stations. All pump stations can be supplied in low profile metered or unmetred enclosures systems.

ELECTRICAL, HYDRAULIC AND PNEUMATIC INSTRUMENTATION CONTROL PANELS

As an OEM, TESCO manufactures a variety of electrical, hydraulic, and pneumatic instrumentation and control panels.

COLORS AND COATINGS

All enclosures are prepared and powder coated in-house in an array of standard RAL color finishes. We also offer custom colors and anti-graffiti coatings, which are available upon request.

WARRANTY POLICY

TESCO-provided equipment is warranted against defect in design, workmanship and materials for a period of one year from the date of installation, unless otherwise specified.

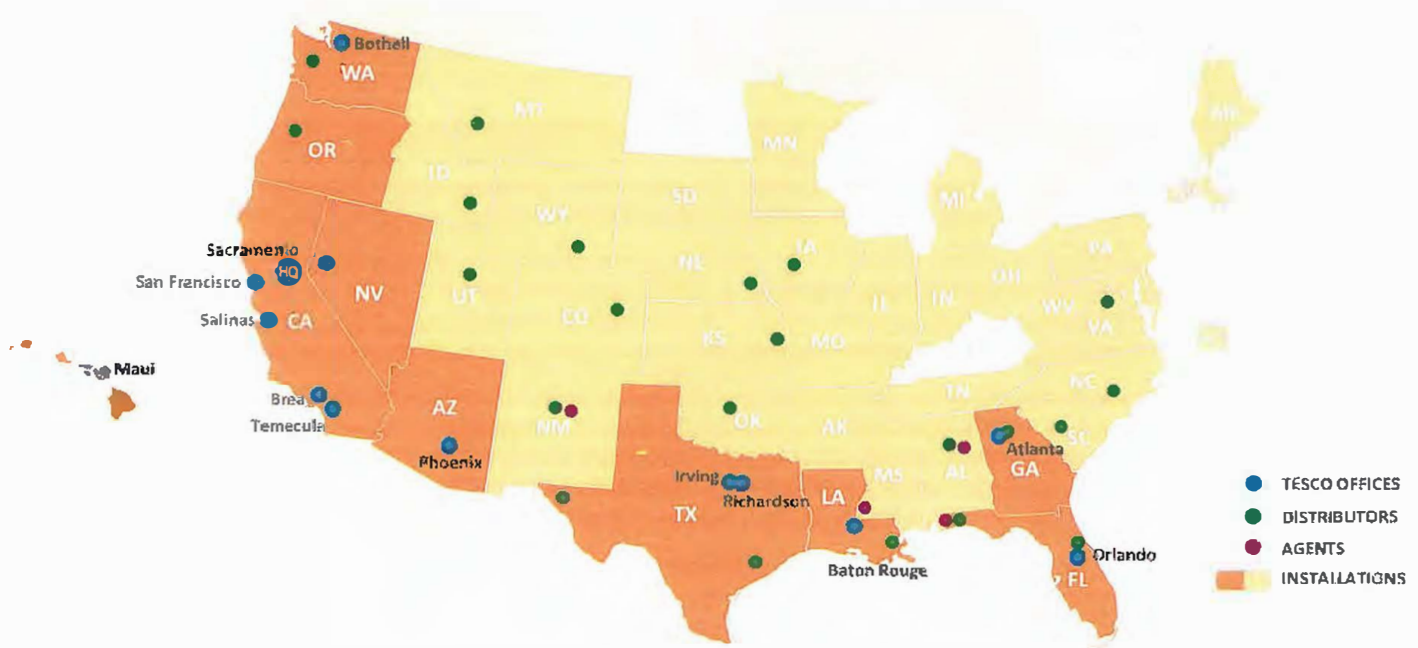
INDEPENDENCE FROM LITIGATION

TESCO is not involved in any current or pending litigation, claims, or legal dispute with any owner agency or municipality.

Locations & Contact Information

Sacramento, California houses TESCO's corporate headquarters and main manufacturing facility. To better serve our clients, we have opened offices and service centers throughout the United States, including California's central coast, bay area, and Southern California, the Northwest, Southwest and Southeast. The company plans to expand into Texas in the near future.

We value our commitment to provide responsive customer service to our clients across the country. Our offices and service centers are staffed with a variety of disciplines including electrical engineers, communication engineers, software engineers, field service engineers, service technicians, and business development professionals – all focused on our regional customers and their unique needs.



TESCO OFFICES

Corporate Headquarters & Manufacturing Center
8440 Florin Road
Sacramento, CA 95828
916.395.8800

Southern California
42015 Remington Avenue
Suite 102
Temecula, CA 92590
951.308.6450

Central California
1315-B Dayton Street
Salinas, CA 93901
800.948.3726

Bay Area California
600 California Street
11th Floor
San Francisco, CA 94108
800.948.3726

Nevada
213 Sage Street, Unit 3
Carson City, NV 89706
800.948.3726

Oregon
5250 High Banks Road
Suite 440
Springfield, OR 97477
800.948.3726

Washington
20250 144th Avenue NE
Woodinville, WA 98072
800.948.3726

Louisiana
4467 Bluebonnet Boulevard
Suite B
Baton Rouge, LA 70809
800.948.3726

Georgia
800 Battery Avenue SE
Suite 100
Atlanta, GA 30339
800.948.3726

Arizona
2 N. Central Avenue
Suite 1800
Phoenix, AZ 85004
800.948.3726

Dallas-Area Office & Manufacturing Center
8000 Jetstar Road
Suite 150
Irving TX, 75063
817.343.7163

Trimax Systems Inc.
565 Explorer Street
Brea, CA 92821
714.255.8590

Trimax Systems Inc.
1221 Abrams Road
Suite 327
Richardson, TX 75081
714.255.8590

TESCO's Current Certifications

SYSTEMS INTEGRATION/ MANUFACTURING

- ABB Authorized Value Provider
- Control System Integrators Association (CSIA) Certified Level 1
- Rockwell Automation Solutions Partner
- Schneider Certified Alliance System Integrator
- Schneider Electric Square D Electrical Equipment Manufacturing Partner
- Siemens Solution Partner

CONTROL SYSTEM/ PLC PLATFORMS

- Rockwell Automation
 - » Allen-Bradley
 - » Studio 5000 & Studio 500
 - » RSLogix
- AVEVA
 - » Modicon
 - » SCADAPack
 - » Unity PRO
 - » Concept
 - » ProWorx 32/NxT
 - » TelePace
- Siemens
 - » TIA Portal, STEP 7

UNDERWRITER'S LABORATORY

- UL-891 Electrical Switchgear
- UL-508A Industrial Control Panels
- UL-698A Industrial Control Panels
- UL-845 Motor Control Centers Extensions

SCADA-HMI /DCS PLATFORMS

- ABB
 - » Symphony
- GE
 - » Proficy iFix
 - » Proficy iHistorian
- Inductive Automation
 - » Ignition
- Rockwell Automation
 - » PlantPAx
 - » FactoryTalk View SE
 - » RSView
- AVEVA
 - » AVEVA InTouch
 - » AVEVA System Platform
 - » AVEVA Edge**
 - » AVEVA Historian
 - » ClearSCADA
- Siemens
 - » WinCC OA
 - » WinCC v7x
 - » WinCC Pro
- Trihedral
 - » VTScada
- Other
 - » Canary Labs Axiom
 - » Canary Enterprise Historian
 - » Specter Instruments – WIN-911
 - » TopView Alarming

CONTRACTOR'S STATE LICENSING

- C-10 Electrical—California State Contractor's License

DESIGN-BUILD INSTITUTE OF AMERICA

- DBIA Member

REGISTERED PROFESSIONAL ENGINEERS (PE)

- Control Systems (CS)
- Electrical Engineering (EE)
- Mechanical Engineering (ME)

PROJECT MANAGEMENT

- Project Management Professional (PMP)

NETWORKING AND INFRASTRUCTURE

- Cisco Certified
 - » CCDA
 - » CCNP
 - » CCNA
- VMware Certified
- Microsoft Certified

FIELD SERVICE

- ISA Certified Technicians

MISCELLANEOUS

- NEMA Compliant
- EUSERC Compliant
- IEEE IAS and IEEE 1584
- GSA Approved

*AVEVA includes Schneider Electric's former industrial software as well as Wonderware.

**Formerly known as Indusoft Web Studio

Originally UL-authorized in the 1970's, our most recent UL certification was granted in 2015.

SECTION 2

RELEVANT EXPERIENCE & REFERENCES

INDUSTRY RECOGNITION DEMONSTRATES TESCO'S DEDICATION TO SUPPORTING CRITICAL WATER/WASTEWATER SYSTEMS

As one of the largest systems integrators in North America focused on this market, TESCO is uniquely qualified to design and build advanced control systems for the industry. Over 95% of our projects are water/wastewater systems or renewable energy projects in the water/wastewater sector. Our year-over-year success is demonstrated not only by the long-term employee-owner staff and company growth, but in being recognized within the industry:

- **Ranked #10 for all control system disciplines** internationally in the *2020 System Integrators Giants List* by Control Engineering.
- Listed as one of the **top 10 companies leading the global water/wastewater management and operational control market** according to *Transparency Market Research* in December 2017.
- Named **"System Integrator Market for Industrial Automation by Service Outlook...Global Outlook to 2022"**, published by *MarketsandMarkets* in April 2017, with TESCO listed as a key player.

THE RIGHT EXPERIENCE TO ACHIEVE THE SANTA CLARA VALLEY WATER DISTRICT'S OBJECTIVES

TESCO's primary focus is on projects involving automated control systems for water/wastewater treatment plants and associated infrastructure, and our experience proves that our best solutions incorporate input from the operators. The familiarity of the maintenance and operations staff have with existing systems, and their "wish lists" of improvements to optimize operational efficiency provide TESCO with direction to apply our expertise in the planning, design, implementation, and integration of automated controls systems and SCADA upgrades.

Because mitigating system downtime is a high priority, we utilize a highly-collaborative approach that solicits input from District staff and project stakeholders to confirm proper planning.

Our recent and ongoing experience with municipalities of similar size and scale (including the City of Roseville, California and San Francisco Public Utilities Commission) demonstrate our ability to deliver a project that incorporates your goals for resiliency, cybersecurity, operational efficiency, regulatory compliance, and provides the Santa Clara Valley Water District with effective systems integration services. We understand from experience the need to deliver projects that provide consistent operator experience, leverage technology for the greatest return on investment, and minimize operational impact during modernization of brownfield installations.

The following table lists five recent, relevant projects that are summarized in the following pages, with contract amounts, relevant project components, and client reference contact information.

PROJECT NAME / OWNER AGENCY	TESCO'S ROLE	DATES
SCADA System Replacement City of Roseville, CA	Prime Contractor	August 2013 – September 2018
WW-628-02A Bruce Flynn Pump Station Improvements San Francisco Public Utilities Commission	Subcontractor	January 2019 – October 2020
WW-639 Oceanside WPCP Digester Gas Utilization Project San Francisco Public Utilities Commission	Subcontractor	August 2018 – February 2021
Enterprise SCADA and Telemetry System Program San Gabriel Valley Water Company	Design Assist/Design Build	October 2009 – September 2019
Water Reclamation Facility Hi-Desert Water District	Subcontractor	November 2018 – February 2020

Client Commendation – City of Roseville

"In 2013, the City of Roseville Environmental Utilities Department (EUD) completed a formal Design-Assist RFP process and selected WT-Roseville joint venture to complete a project to replace our three legacy DYNAC VMS-based SCADA systems with GE iFIX SCADA systems. The joint venture was comprised of TESCO Controls Inc. (TESCO), and an engineering firm.

The project started with TESCO functioning as the technical lead for the joint venture, while partnering with EUD and CH2M, EUD's engineering consultant, to transform the preliminary design into a final design. The updated design included extensive "what-if" analysis of all facets of the original design. As a result of these analysis, nearly every element of the original design was enhanced; including adding redundancy elements to the hardware and software, and significantly revising the network architecture. The network enhancements also ensured our new SCADA system was compliant with NIST and AWWA cybersecurity guidelines.



EUD introduced an additional layer of collaboration for TESCO, when we engaged the Department of Homeland Security (DHS) ICS-CERT staff to perform a facilitated cybersecurity evaluation (CSET) on the draft final design, then a Design Architecture Review (DAR) on the final design, and finally the Network Architecture Verification and Validation (NAVV) testing on the operating system. Following the NAVV, DHS provided outstanding feedback regarding the efforts of the technical team led by TESCO staff; including the following quoted observed strengths:

- "Good segmentation and control of data flow"*
- "Highly skilled and Knowledgeable IT and OT staff"*
- "Significant collaboration in designing and implementing the new SCADA system"*

TESCO also led the effort to convert the DYNAC databases to a format suitable for importing into iFIX. The two databases are fundamentally much different from each other, thus in many cases, a single point in the DYNAC database resulted in several points in the iFIX database. Their proper alignment of the various tags versus their virtual states was challenging and required the generation of thousands of new SCADA tags that conformed to EUD standards. Their efforts allowed EUD staff to standardize all of the existing tags and the associated descriptions in the database.

Before the second SCADA system FAT was completed, TESCO's joint venture partner was dissolved, forcing TESCO to complete the project on their own. TESCO has not shrunk from this new challenge, and is working diligently to complete the project on schedule and within the defined budget. There are many more elements to the project where TESCO has brought their excellent technical knowledge, skills and abilities to bear; so this only covers some of the big challenges."

---Mr. Charles K. Aycock, EIM Systems Coordinator, City of Roseville Environmental Utilities Department

SCADA SYSTEM REPLACEMENT

City of Roseville, California

TESCO worked with the City of Roseville Environmental Utilities Department (City) to migrate three, proprietary, aging distributed control system (DCS) systems and other HMIs to GE's iFIX SCADA. The new system retained the City's proven control schemes, functionality and operational history while adding a state-of-the-art, user-friendly interface that enables comprehensive water and wastewater operations management, analysis and control.

Aging System Needing Replacement: The City operates a 100 mgd water treatment plant, two wastewater treatment plants (12 mgd and 18 mgd), and a dual-purpose pump station to serve 132,671 residents across their 50-square mile service area. After 25 years of use, the Transdyn DYNAC DCS and other control systems were unsupported and at the end of their useful life.

Implementation of New SCADA System: Following a SCADA master plan and 60 percent design (by CH2M Hill, now dba Jacobs), the City selected GE iFIX and Historian. The City selected TESCO to deliver a turnkey solution through a collaborative, "Design-Assist" approach. TESCO provided design and implementation services for the replacement of the existing DYNAC system with GE iFIX and Proficy Historian software. In addition to replacing the DYNAC system for the City's three treatment plants, the City also implemented iFIX to replace the standalone Wonderware systems at the Dual-Purpose Pumping Station, Dry Creek UV systems, and Pleasant Grove UV systems, as well as the Hypochlorite Magelis system at the Dry Creek facility.

Benefits of the New System: The new SCADA systems provides remote monitoring and control of treatment processes, water distribution, recycled water, wastewater collection, and stormwater facilities via various communications methods. New HMI hardware and software was provided, installed, and programmed by TESCO. Data from Proficy Historian was integrated with the existing Oracle HDR system, plus iFIX interfaces with a number of different PLC protocols (including Modbus/TCP) at plants and remote sites. TESCO developed a tool for transitioning the existing DYNAC (DCS) databases for all three plants to the new iFIX systems.

Cybersecurity Architecture: TESCO also hosted a Department of Homeland Security (DHS) audit to review physical security, cybersecurity (CSET facilitated), design architecture (DAR) and conduct Network Architecture Verification and Validation (NAVV). The system architecture allows business users unprecedented access to operational history without compromising security.

The resulting system added redundancy, applied security practices for defense in depth, and streamlined reporting.

OWNER AGENCY: CITY OF ROSEVILLE

REFERENCE

Ken Glotzbach
Project Manager/
EIM Systems Coordinator
(Retired from City October 2019)
916.768.6559 mobile
charles@
muniauto.onmicosoft.com

CONTRACT

\$7,718,000

DATES

August 2013 –
September 2018

RELEVANCE TO

SANTA CLARA VALLEY WATER DISTRICT

- Modicon PLC Integration
- Multiple Monitoring Centers
- More than 5 PLCs
- Procurement & Installation
- Programming
- Testing
- Integration
- Start-Up, Staff Training, and O&M Manuals

OWNER AGENCY: SFPUC

REFERENCE

Jignesh Desai, PE, BCEE, ENV SP
Project Manager
415.551.4657
jdesai@sfpwater.org

CONTRACT

\$2,426,700

DATES

January 2019 – October 2020;
Currently in start-up phase

TEAM

- Project Manager:
Kevin Ford, PMP
- Field Services:
Alan Horikawa, CCST
Wess Wissinger, CCST
- PLC Programmers:
AJ Cottengim
Blake Robinson
- Design Engineer:
Hinh Nguyen
- PROFIBUS Network Design:
Sean Timmons
- Electrical Engineer:
Namgay Tshering, PE, CESC
- Networking & Telemetry:
Brendon Horn

RELEVANCE TO SCVWD

- Modicon PLCs
- More than 5 PLCs
- Multiple Monitoring Centers
- Upgrade of PLCs
- PROFIBUS system at SFPUC
- Coordination with Emerson
- Procurement
- Installation
- Programming
- Arc Flash Risk Assessment
- Testing
- Integration
- Start-Up, Staff Training, and O&M Manuals

WW-626-02A BRUCE FLYNN PUMP STATION IMPROVEMENTS

San Francisco Public Utilities Commission (SFPUC), California

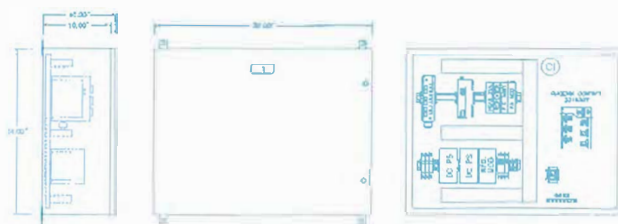
As part of SFPUC's 20-year, city-wide Sewer System Improvements Program project to upgrade the aging sewer system and increase sustainability and reliability, this project replaces headworks at the Southeast Water Pollution Control Plant (SEWPCP) with a 250 mgd capacity all-weather facility. The project encompasses three primary scopes of work, including implementation of a flow re-route pipe to send wet weather flows around an existing headworks facility, upgrades and general modifications within the existing Bruce Flynn Pump Station, and construction of a new reinforced concrete headworks structure.

The project replaced old electro-mechanical relays with new microprocessor based relays at 12.47KV Switchgear. It also replaced six 430 HP submersible pumps with 500 HP pumps six 430HP submersible pumps and associated VFDs, two wet well dewatering pumps, and installed new electrical appurtenances, instrumentation sets, and control packages. Project challenges include implementing pump station upgrades within the SEWPCP while under construction for numerous concurrent upgrades during continuous operations.

To achieve SFPUC's goals for system-wide efficiency, enhanced operations, and increase treatment process capacity, TESCO conducted a short-circuit and coordination study, performed an arc flash risk assessment, designed updates to panel and switchgear layouts, and designed wiring diagrams and relay settings. TESCO also performed modifications on several pieces of medium-voltage equipment, requiring significant coordination and planning related to power outages while numerous contractors performed work simultaneously.

TESCO's ability to perform extensive, on-site modifications to medium-voltage equipment while proactively coordinating power outages with numerous contractors allows us to perform parallel work, and to deliver streamlined installation, start-up, and testing activities.

TESCO also provided several new ABB VFDs and controllers, as well as new local control stations, instrumentation panels, control panels, and a PROFIBUS panel. Professional services included design-build engineering services, PLC and local HMI programming, network configuration, factory testing, and on-site product start-up and training services. This project required substantial coordination and collaboration with Emerson to confirm proper integration into the Ovation Distributed Control System.



The Manifold Room Field Panel (shown in the adjacent figure) houses the PROFIBUS component at the Bruce Flynn Pump Station.

WW-639 OCEANSIDE WPCP DIGESTER GAS UTILIZATION UPGRADES

San Francisco Public Utilities Commission (SFPUC), California
This \$38.4 million upgrade project replaced aging digester biogas internal combustion cogeneration systems at the 17 mgd Oceanside Water Pollution Control Plant. TESCO was responsible for providing electrical equipment, instrumentation, process equipment, as well as programming, installation, testing, integration, and start-up services.



TESCO conducted an arc flash risk assessment and provided control system integration for PLC/HMI interfaces related to the power engines, generator control panel system, engine main control panel, power generation switchgear, SEL RTAC system, as well as power monitoring systems associated with the Emergency Diesel Generator System and the three Cogeneration Engines.

TESCO built a software model of the entire plant for power system analysis and provided settings for the new microprocessor-based relays. TESCO also provided PLC and OIT/HMI programming, implemented modifications to the Main Plant switchgear, furnished transformers, and provided lighting panels, boiler control panels, not water loop pump control panels, and temperature valve controllers.

Instrumentation provided by TESCO includes pressure devices, level devices, magnetic flow meters, thermal mass flow meter, combustible gas analyzers, sample gas control systems, and a myriad of sensors. TESCO also provided system training for SFPUC staff and detailed O&M manuals.

OWNER AGENCY: SFPUC

REFERENCE

Mike Maraviglia
Electrical Supervisor
415.850.6766
mmaraviglia@sfpwater.org

CONTRACT

\$1,604,386

DATES

August 2018 – February 2021

TEAM

- Project Manager:
Andre Crockett
- Field Services:
Alan Horikawa, CCST
Wess Wissinger, CCST
- PLC Programmers:
AJ Cottengim
Blake Robinson
- Electrical Engineer:
Namgay Tshering, PE, CESC
- Networking & Telemetry:
Brendon Horn

RELEVANCE TO SCVWD

- Modicon PLCs
- More than 5 PLCs
- Multiple Monitoring Centers
- Upgrade of PLCs
- PCSI Services at SFPUC WPCP
- Procurement
- Installation
- Programming
- Arc Flash Risk Assessment
- Testing
- Integration
- Start-Up, Staff Training, and O&M Manuals

OWNER AGENCY: SGVWC

REFERENCE

Tom Schiawe
Chief Plant Operator 626.448.6183
tjschiawe@sgwater.com

CONTRACT

\$3 million over 10 years

DATES

2009 – Ongoing

TESCO TEAM

- Project Manager:
Lewis Smith
Jarrod Lippen
- PLC Programmer:
Raju Nair
- SCADA Programmer:
Keith Webb,
Vadim Artishuk
- Networking:
Brendon Horn
Josh Choe

RELEVANCE TO SCVWD

- Modicon PLCs
- More than 5 PLCs
- Multiple Monitoring Centers
- Upgrade of PLCs
- Upgrade of an existing Wonderware SCADA system with 45 remote PLC sites
- Professional Service Agreements
- System assessment
- Engineering recommendations
- Budgetary estimates
- Design-build implementation

ENTERPRISE SCADA AND TELEMETRY SUPPORT PROGRAM

San Gabriel Valley Water Company (SGVWC), California

TESCO serves as the Systems Integrator for all of SGVWC's PLC/RTU solutions, RF telemetry and network communication systems, and SCADA system integration, providing ongoing preventative maintenance and system support services.

TESCO has delivered more than 60 project phases for approximately \$3 million in SCADA control system program upgrades for SGVWC, a retail water supplier managing 47 sites within the Company's El Monte, Industry, and Montebello service areas; 67 sites in the Whittier Narrows service area; and 49 sites in the Fontana Water Company service area.

SGVWC's vast, comprehensive water automation and management system utilizes several types of water process technologies in order to supply potable drinking water for their communities. TESCO works with SGVWC and their partners to develop design requirements that evolve based on SGVWC's needs. We collaborate to produce practical, scalable, and reliable solutions that meet SGVWC's progressively stringent criteria. Recent activities include the development and deployment of a coordinated control versus process demand system for SGVWC's in-conduit hydroelectric energy recovery efforts, where TESCO's integration expertise was sought to coordinate the requirements for optimizing energy production while meeting the water delivery demands spanning across branches of service areas.

Evolution in technology adoption and data payloads plays a crucial role in our design considerations for orchestrating how data traffic traverses the process control networks.

TESCO's personnel integrated multiple brands of technologies onto the process control network (residing between SCADA consoles and PLC/RTU solutions) that required special considerations to efficiently administer data traffic throughout SGVWC's vast wireless radio communications system, which operates securely in the 450 MHz, 900 MHz, and 5.8 GHz RF bands.

Core elements of SGVWC's SCADA Program included upgrading and deploying Wonderware SCADA servers (inclusive of redundant, hot-standby/ auto-failover and dedicated historian functionality) to support multiple system clients for HMI/SCADA interface needs, including both local and secure remote access. TESCO developed SCADA graphical screens that provide SGVWC's operations staff with full monitoring and control capabilities with proper authentication login, which administers various assigned access profiles to individual users.

Our SCADA solution also provides SGVWC with local alarm annunciation, plus remote alarm notifications to operators who are away from the SCADA terminals or to escalate an alarm event when necessary. The historian systems facilitate data logging, queries, reports, and trend charts for SCADA users. We also integrated resilient system backup and disaster recovery provisions within the SCADA solution to allow for expedient recovery in the unlikely event of a catastrophic system failure.

WATER RECLAMATION FACILITY

Hi-Desert Water District, Yucca Valley, California

This project involved constructing a new Water Reclamation Facility to treat and reclaim 1.2 million gallons of wastewater per day.

With a total service area of 57-square miles, the District operates 16 storage tanks, 13 wells, and maintains over 297 miles of pipeline. In addition to providing water for customers, the District constructed the area's first centralized sewer system with a wastewater treatment and reclamation facility to provide future sewer service to its customers. This project constructed a new 1.2 mgd Water Reclamation Facility.

For this \$30 million project, TESCO provided, configured, and implemented all new SCADA hardware and software in a hot-standby configuration with an accompanying process historian. TESCO provided and configured all new core networking equipment, a new main switchboard, TESCO-manufactured motor control centers (MCCs), variable frequency drives (VFDs), and instrumentation sets including flow meters, transducers, and analyzers. TESCO also configured and programmed all newly-provided PLC systems.

OWNER AGENCY: HI-DESERT WATER DISTRICT

REFERENCE

Doug Culbert
Chief Plant Operator
760.228.6278
dougc@hdwd.com

ENGINEER

John Wyckoff, PE
Design Engineer
Kennedy/Jenks
650.852.2800
JohnWyckoff@kennedyjenks.com

CONTRACT

\$2,728,222

DATES

Water Reclamation Facility:
July 2017 – December 2019

TEAM

- Project Manager:
Jarrod Lippen, PMP
- SCADA Engineers:
Jon Shores
Ethan Duncan
- Field Services:
Jacob Deckerlegand
- PLC Programmer:
Luis Johnson
- Project Engineer:
Alfonso Ducreux
- I&C Engineer: Jonas Paragas

RELEVANCE TO SCVWD

- Modicon PLCs
- More than 5 PLCs
- Multiple Monitoring Centers
- Upgrade of PLCs
- Procurement
- Installation
- Programming
- Testing
- Start-Up, Staff Training, and O&M Manuals



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TESCO[®]
CONTROLS, INC.

8440 Florin Road | Sacramento, CA 95828
916.395.8800 | sales@tescocontrols.com | TescoControls.com