



AGENDA

Meeting of the
Scotts Valley City Council
In-Person and Remote Access
Date: December 21, 2022
Time: 6:00 PM

CONTACT INFORMATION	MEETING LOCATION	POSTING
City of Scotts Valley 1 Civic Center Drive Scotts Valley, CA 95066 (831) 440-5600	City Council Chambers 1 Civic Center Drive Scotts Valley, CA 95066 OR Zoom Video Conference https://us02web.zoom.us/j/86546172991	The agenda was posted at City Hall, SV Senior Center, SV Public Works Building and on the Internet at www.scottsvally.org .

ELECTED OFFICIALS	CITY STAFF MEMBERS
Donna Lind, Mayor Jim Reed, Vice Mayor Jack Dilles, Council Member Randy Johnson, Council Member Derek Timm, Council Member	Mali LaGoe, City Manager Kirsten Powell, City Attorney Cathie Simonovich, City Clerk Lauren Lambert, Deputy City Clerk

MEETING NOTICE AND AGENDA PACKET MATERIALS

Notice regarding City Council Meetings:

The City Council meets regularly on the 1st and 3rd Wednesday of each month at 6:00 PM in the City Hall Council Chambers located at 1 Civic Center Drive, Scotts Valley, CA 95066, and via Zoom Webinar remote access.

Agenda and Agenda Packet Materials:

The City Council agenda and the complete agenda packet are available for review by 5:00 PM the Friday before the Wednesday meeting on the Internet at the City's website: www.scottsvally.org and in the lobby of City Hall at 1 Civic Center Drive, Scotts Valley, CA. Pursuant to Government Code §54957.5, materials related to an agenda item, submitted after distribution of the agenda packet, are available for public inspection in the lobby of City Hall during normal business hours, Monday-Friday, 8am-12 pm and 1-5 pm. In accordance with AB 1344, such documents will be posted on the City's website at www.scottsvally.org.

Public Participation:

The meeting will be available on Zoom and livestreamed to the City of Scotts Valley's YouTube channel: <https://www.youtube.com/@cityofscottsvally>
For those wishing to participate via Zoom you can join the following ways:

Date: December 21, 2022

Zoom Webinar meeting link: <https://us02web.zoom.us/j/86546172991>

Or dial one of these numbers: (669) 900-9128 or (669) 444-9171

Webinar ID: 865 4617 2991

Whether attendance is in-person or remote, you will be given opportunities to provide public comment at the appropriate times throughout the meeting. The time limit is up to 3 minutes for an individual, or 5 minutes for someone who is representing a group of three or more, at the discretion of the Mayor. Please note that this is not a question-and-answer time, but simply a time to provide comments to the Council. At the appropriate times during the meeting for public comment, on items not on the agenda, and on specific agenda items, the Mayor will announce that public comment will be accepted.

How to comment via in-person attendance:

Please proceed to the public comment podium when the Mayor opens the item for public comment.

How to comment via Zoom Webinar:

Use the webinar attendee option to “raise hand” when the Mayor opens the item for public comment. The Clerk will unmute you when it is your turn. If you have joined via Zoom phone call, dial *9 or your phone to “raise your hand”, and the Clerk will unmute you when it is your turn.

CALL TO ORDER 6:00 PM

PLEDGE OF ALLEGIANCE and MOMENT OF SILENCE

ROLL CALL

SPECIAL SET MATTERS

- a) Approval of Resolution No. 2015.2 declaring the results of the consolidated General Municipal Election held on November 8, 2022
- b) Swearing in of re-elected City Council Member Derek Timm, and new City Council Member Allan Timms
- c) Nomination/Motion of Mayor/Chair
(conducted by City Manager)
- d) Nomination/Motion of Vice Mayor/Vice Chair
(conducted by newly appointed Mayor)

COMMITTEE REPORTS

Council members are appointed to committees which are either City committees or committees dealing with other jurisdictions. This portion of the agenda allows the committee member to

present oral or written reports to the Council regarding their committee assignments. It also allows the Council to make comments and give the committee member direction, as required.

CITY MANAGER REPORT

PUBLIC COMMENT TIME

This is the opportunity for individuals to make and/or submit written or oral comments to the Council on any items within the purview of the Council, which are NOT part of the Agenda. No action on the item may be taken, but the Council may request the matter be placed on a future agenda.

ALTERATIONS TO CONSENT AGENDA

Council can remove or add items to the Consent Agenda.

CONSENT AGENDA

The Consent Agenda is comprised of items which are intended to be non-controversial and are approved without discussion. Persons wishing to speak on any item may request the item be moved to the Regular Agenda by raising their hand to be recognized by the Mayor. An item will only be moved from the Consent Agenda to the Regular Agenda if a City Council Member requests it to be moved and a majority of the Council agrees.

- A. Approve check registers dated 12-08-2022 and 12-15-2022
- B. Aeration basin system upgrades – professional services agreement award

ADJOURNMENT

ADA NOTICE

The City of Scotts Valley does not discriminate against persons with disabilities. The City Council Chambers is an accessible facility. If you wish to attend a City Council meeting and require assistance such as sign language, a translator, or other special assistance or devices in order to attend and participate at the meeting, please call the City Clerk's office at (831) 440-5600 five to seven days in advance of the meeting to make arrangements for assistance. If you require the agenda of a City Council meeting be available in an alternative format consistent with a specific disability, please call the City Clerk's Office. The California State Relay Service (TTY/VCO/HCO to Voice: English 1-800-735-2929, Spanish 1-800-855-3000; or, Voice to TTY/VCO/HCO: English 1-800-735-2922, Spanish 1-800-855-3000), provides Telecommunications Devices for the Deaf and Disabled and will provide a link between the TDD caller and users of telephone equipment.

PROCEDURAL INFORMATION FOR THE PUBLIC

**THE FOLLOWING IS THE PROCEDURE COUNCIL SHOULD TAKE IN
APPROVAL OF A RESOLUTION:**

1. Move the Resolution number for approval.
2. Second the motion.
3. Vote by body, a roll call vote is not required.

**THE FOLLOWING IS THE PROCEDURE COUNCIL SHOULD TAKE IN
INTRODUCTION/ADOPTION OF AN ORDINANCE:**

1. Move the Ordinance number for introduction (or adoption).
2. Move the Ordinance be introduced by title only and waive the reading of the text.
3. Read the Ordinance title.
4. Second the motion.
5. Vote by body, a roll call vote is not required.

**THE FOLLOWING IS THE PROCEDURE COUNCIL SHOULD TAKE IN
PUBLIC COMMENT/PUBLIC HEARINGS:**

Unless otherwise determined by the presiding officer of the meeting:

1. Three minutes allowed per individual to speak.
2. Five minutes allowed per individual representing a group of three or more.



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RESOLUTION NO. 2015.2

**A RESOLUTION OF THE CITY COUNCIL OF THE
CITY OF SCOTTS VALLEY DECLARING RESULTS OF CONSOLIDATED
GUBERNATORIAL GENERAL ELECTION HELD ON NOVEMBER 8, 2022**

WHEREAS, a consolidated Gubernatorial General Election was conducted in the City of Scotts Valley on November 8, 2022 for the election of candidates to two City Council seats; and

WHEREAS, the canvass of the returns of said consolidated election was conducted through the office of the County Clerk of Santa Cruz County; and

WHEREAS, the County Clerk of Santa Cruz County has certified the results of the said election; and

WHEREAS, the abstract attached hereto represents the certified abstract of the results of said election; and

WHEREAS, the candidates nominated for election to the two City Council seats were Jim Reed, Derek Timm and Allan Timms.

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Scotts Valley that:

1. The certified abstract hereto attached disclosing the results of the consolidated statewide general election conducted on November 8, 2022 is hereby accepted and declared to represent the final results of said election; and
2. That candidates elected to fill the two City Council seats are the two candidates who received the highest number of votes: Derek Timm and Allan Timms; and
3. The results of the election set forth in the attached certified abstract shall be entered in the minutes pursuant to Section 22933 of the Elections Code of California.

The above and foregoing resolution was adopted at a duly held regular meeting of the City Council on the 21st day of December 2022 by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

Approved: _____
Donna Lind, Mayor

Attest: _____
Cathie Simonovich, City Clerk

Statement of Vote



November 8, 2022 Statewide General Election



Tricia Webber, Santa Cruz County Clerk
701 Ocean St., Room 310
Santa Cruz, CA 95060
831-454-2060 / 1-866-282-5900
831-454-2445 (FAX)
www.votescount.us

Certification of County Clerk of the Results of the Canvass of the November 8, 2022, Statewide General Election

I, Tricia Webber, County Clerk of the County of Santa Cruz, do hereby certify that, in pursuance to the provisions of Elections Code Section 15300, et. seq., I did canvass the results for the votes cast in the Statewide Direct Primary Election held in Santa Cruz County on November 8, 2022, for measures and contests that were submitted to the vote of the voters, and that the Statement of Votes Cast to which this certificate is attached, is true and correct.

I hereby set my hand and official seal this 6th day of December 2022 at the County of Santa Cruz.

Tricia Webber

Tricia Webber
Santa Cruz County Clerk



1 City of Scotts Valley Councilmember									
					1	1	1	1	1
		Registered Voters	Voters Cast	Turnout (%)	JIM REED	DEREK TIMM	ALLAN TIMMS	Write In 1	Write In 2
54010	In Person	1586	94	5.93 %	42	50	38		
54010	Vote by Mail	1586	1047	66.02 %	456	664	483	3	1
54010	Total	1586	1141	71.94 %	498	714	521	3	1
54030	In Person	5442	395	7.26 %	203	177	161	8	1
54030	Vote by Mail	5442	3308	60.79 %	1286	2084	1665	26	2
54030	Total	5442	3703	68.04 %	1489	2261	1826	34	3
54071	In Person	9	1	11.11 %				1	
54071	Vote by Mail	9	8	88.89 %	4	3	5		
54071	Total	9	9	100.00 %	4	3	5	1	
54120	In Person	1525	111	7.28 %	56	55	51		
54120	Vote by Mail	1525	934	61.25 %	349	619	511	9	4
54120	Total	1525	1045	68.52 %	405	674	562	9	4
54123	In Person	0	0						
54123	Vote by Mail	0	0						
54123	Total	0	0						
54141	In Person	190	4	2.11 %	3	1	1		
54141	Vote by Mail	190	127	66.84 %	59	67	67		
54141	Total	190	131	68.95 %	62	68	68		
Electionwide	In Person	8752	605	6.91 %	304	283	251	9	1
Electionwide	Vote by Mail	8752	5424	61.97 %	2154	3437	2731	38	7
Electionwide	Total	8752	6029	68.89 %	2458	3720	2982	47	8
Total - In Person		8752	605	6.91 %	304	283	251	9	1
Total - Vote by Mail		8752	5424	61.97 %	2154	3437	2731	38	7
Contest Total		8752	6029	68.89 %	2458	3720	2982	47	8

AGENDA ITEM A

DATE: 12-21-2022

SCOTTS VALLEY ACCOUNTS PAYABLE

12/09/2022 13:43:13

Check Register

CITY OF SCOTTS VALLEY

GL050S-V08.17 COVERPAGE

GL540R

Report Selection:

RUN GROUP... 120822 COMMENT... 12/08/2022 A/P

DATA-JE-ID DATA COMMENT

W-12082022-427 12/08/2022 A/P

Run Instructions:

Jobq	Banner	Copies	Form	Printer	Hold	Space	LPI	Lines	CPI	CP	SP	RT
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BANK	VENDOR	CHECK#	DATE	AMOUNT
BA	GENERAL CHECKING ACCOUNT			
001840	A TOOL SHED, INC.	125595	12/08/22	480.50
000041	ACC BUSINESS	125596	12/08/22	598.66
003919	ACCO ENGINEERED SYSTEMS	125597	12/08/22	2,326.20
003497	ALVAREZ INDUSTRIES, INC	125598	12/08/22	3,117.00
005035	AMAZON CAPITAL SERVICES	125599	12/08/22	2,728.74
.15907	APPLE LANE CABINETS	125600	12/08/22	1,659.43
003149	AQUATIC BIOASSAY &	125601	12/08/22	4,550.00
000097	AT&T	125602	12/08/22	1,044.30
003170	BOGARD CONSTRUCTION INC	125603	12/08/22	8,812.50
000021	BOWMAN & WILLIAMS	125604	12/08/22	7,221.00
000437	BRASS KEY LOCKSMITH	125605	12/08/22	6.57
004083	BRIGHTVIEW LANDSCAPE	125606	12/08/22	4,166.50
001566	BUSINESS WITH PLEASURE	125607	12/08/22	737.52
.15908	CITY OF FOSTER CITY	125608	12/08/22	540.00
002091	COMCAST	125609	12/08/22	383.23
002091	COMCAST	125610	12/08/22	148.31
000037	CRYSTAL SPRINGS WATER CO	125611	12/08/22	32.60
005047	CUMMING MANGEMENT GROUP,	125612	12/08/22	2,337.50
.15906	DARRYL PANG	125613	12/08/22	350.00
001362	DUNCAN AUTO TECH	125614	12/08/22	279.94
003646	ENVIRONMENTAL LEVERAGE, I	125615	12/08/22	685.48
004037	FERGUSON ENTERPRISES, LL	125616	12/08/22	436.46
.15905	FRS SPECTRA	125617	12/08/22	264.19
005024	GOOD CITY COMPANY	125618	12/08/22	4,127.50
004010	GOVERNMENTJOBS.COM, INC.	125619	12/08/22	9,222.43
001881	GRAINGER	125620	12/08/22	96.07
004024	K & D LANDSCAPING, INC.	125621	12/08/22	16,979.74
000238	KENNEDY-JENKS CONSULTANT	125622	12/08/22	2,782.50
005005	KRUSEE/RANDALL	125623	12/08/22	181.50
001673	LINCOLN FINANCIAL GROUP	125624	12/08/22	825.93
003403	MAR-KEN INTERNATIONAL PO	125625	12/08/22	1,200.00
000218	MID VALLEY SUPPLY	125626	12/08/22	444.84
003685	MONTEREY BAY ANALYTICAL	125627	12/08/22	100.00
003493	NHA ADVISORS	125628	12/08/22	3,425.00
000088	NORTH BAY FORD-LINCOLN-	125629	12/08/22	690.68
000098	PALACE BUSINESS SOLUTION	125630	12/08/22	1,846.37
005049	PATHENS, INC.	125631	12/08/22	4,218.80
003977	PECKHAM & MCKENNEY	125632	12/08/22	8,166.68
003328	PETERSON TRUCKS, INC	125633	12/08/22	2,475.35
004045	PHILLIP D NEUMAN	125634	12/08/22	39,201.48
000723	PIED PIPER INC./THE	125635	12/08/22	2,598.00
001615	PIONEER AMERICAS LLC 107	125636	12/08/22	2,346.74
004070	QUAD KNOFF, INC.	125637	12/08/22	6,112.49
003346	SAN LORENZO	125638	12/08/22	19.61
001909	SANTA CRUZ COUNTY	125639	12/08/22	20,564.00
003367	SANTA CRUZ LIVE SCAN, IN	125640	12/08/22	150.00
000130	SCOTTS VALLEY FIRE DISTR	125641	12/08/22	158.00
000805	SHAPE INC.	125642	12/08/22	4,912.99

Check Register

BANK	VENDOR	CHECK#	DATE	AMOUNT	
BA	GENERAL CHECKING ACCOUNT				
	004092 SIMONOVICH/CATHIE	125643	12/08/22	126.50	
	000228 SOIL CONTROL LAB	125644	12/08/22	715.00	
	003783 STATE WATER RESOURCES CO	125645	12/08/22	10,602.00	
	001844 STERLING WATER TECHNOLOG	125646	12/08/22	2,880.00	
	000143 SUMMIT UNIFORMS	125647	12/08/22	1,371.56	
	003973 THOMAS/TYLER	125648	12/08/22	178.50	
	003548 TORO PETROLEUM CORP	125649	12/08/22	4,464.23	
	004032 URETSKY SECURITY	125650	12/08/22	1,300.00	
	000151 VISION SERVICE PLAN	125651	12/08/22	1,037.40	
	003533 WATSON MARLOW, INC	125652	12/08/22	1,014.67	
	003708 YORK FRAMING	125653	12/08/22	38.24	
	GENERAL CHECKING ACCOUNT			199,481.43	***

SCOTTS VALLEY ACCOUNTS PAYABLE
CITY OF SCOTTS VALLEY
12/09/2022 13:43:13
GL540R-V08.17 PAGE 3

Check Register

BANK	VENDOR	CHECK#	DATE	AMOUNT
REPORT TOTALS:				199,481.43

RECORDS PRINTED - 000153

GL540R

FUND RECAP:

FUND	DESCRIPTION	DISBURSEMENTS
----	-----	
001	GENERAL	137,758.60
004	RECREATION	3,085.43
009	PARKS & REC FACILITIES	5,694.09
010	WASTEWATER OPERATIONS	17,654.43
011	TERTIARY TREATMENT PLANT	7,992.94
012	WASTEWATER CAPITAL RESERVE	2,782.50
027	POLICE FACILITY BUILDING	2,337.50
028	SENIOR CENTER	2,206.45
050	PINEWOOD EST LNDSCP MAINT DT	313.00
077	SKYPARK MAINT ASSESS DIST	1,595.17
088	LIBRARY FACILITIES-MEAS "S"	8,812.50
112	DENTAL INS INTERNAL SERV	486.50
123	COMMUNITY FACILITY CENTER	1,122.92
150	GENERAL CAPITAL IMPROVEMENTS	7,221.00
268	PROP 68-PARKS/WATER BOND ACT	418.40
TOTAL ALL FUNDS		199,481.43

BANK RECAP:

BANK	NAME	DISBURSEMENTS
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BA	GENERAL CHECKING ACCOUNT	199,481.43
TOTAL ALL BANKS		199,481.43

SCOTTS VALLEY ACCOUNTS PAYABLE
12/15/2022 22:11:26 Check Register

CITY OF SCOTTS VALLEY
GL050S-V08.17 COVERPAGE
GL540R

Report Selection:

RUN GROUP... 121522 COMMENT... 12/15/2022 A/P

DATA-JE-ID DATA COMMENT

W-12152022-454 12/15/2022 A/P

Run Instructions:

Jobq	Banner	Copies	Form	Printer	Hold	Space	LPI	Lines	CPI	CP	SP	RT
L		01			Y	S	6	066	10			

BANK	VENDOR	CHECK#	DATE	AMOUNT	
BA	GENERAL CHECKING ACCOUNT				
	000097 AT&T	125654	12/15/22	9.53	
	005043 BAKER TILLY US, LLP	125655	12/15/22	8,687.50	
	000614 BATTERIES + BULBS #314	125656	12/15/22	426.40	
	001593 BENEDICT DDS/NANNETTE	125657	12/15/22	490.00	
	003894 BURKE, WILLIAMS & SORENS	125658	12/15/22	505.25	
	001566 BUSINESS WITH PLEASURE	125659	12/15/22	115.90	
	001633 CAL-WEST LIGHTING & SIGN	125660	12/15/22	1,211.79	
	003232 CLERK OF THE BOARD	125661	12/15/22	50.00	
	002091 COMCAST	125662	12/15/22	169.64	
	002091 COMCAST	125663	12/15/22	323.26	
	003374 CRIMINAL JUSTICE COUNCIL	125664	12/15/22	3,000.00	
	000389 DASSEL'S PETROLEUM INC	125665	12/15/22	5,843.35	
	000778 DEPT OF JUSTICE	125666	12/15/22	243.00	
	004003 DREW DDS/ALLYSON S	125667	12/15/22	617.72	
	003991 DROZEK/PASCALE	125668	12/15/22	50.02	
	001597 ENVIRONMENTAL INNOVATION	125669	12/15/22	1,540.00	
	.15911 EXCHANGE CLUB OF SCOTTS	125670	12/15/22	543.00	
	.15913 GNP INVESTMENTS LLC	125671	12/15/22	3,326.00	
	003706 GRANADOS/JUSTIN	125672	12/15/22	964.00	
	001817 GROUP 4	125673	12/15/22	3,520.00	
	000801 HINDERLITER, DE LLAMAS &	125674	12/15/22	5,822.97	
	000078 LLOYD'S TIRE SERVICE INC	125675	12/15/22	802.35	
	000291 MBASIA	125676	12/15/22	614,194.00	
	001130 MIRACLE PLAYSYSTEMS, INC	125677	12/15/22	3,620.06	
	000083 MISSION UNIFORM SERVICE	125678	12/15/22	999.47	
	000494 MONTEREY BAY AIR	125679	12/15/22	563.00	
	000939 NATIONAL COMTEL NETWORK	125680	12/15/22	13.76	
	000101 PACIFIC GAS & ELECTRIC C	125681	12/15/22	527.40	
	004052 PATRIOT CONTRACTING, INC	125682	12/15/22	81,313.51	
	004045 PHILLIP D NEUMAN	125683	12/15/22	11,012.91	
	001833 RADAR SHOP, INC./THE	125684	12/15/22	146.50	
	001894 S.V. WATER DISTRICT - BU	125685	12/15/22	58.06	
	003555 SANTA CRUZ COUNTY DA OFF	125686	12/15/22	7,231.00	
	000820 SANTA CRUZ/COUNTY OF	125687	12/15/22	54.00	
	001113 STERICYCLE INC	125688	12/15/22	407.28	
	004062 THE CHRISTMAS LIGHT PROS	125689	12/15/22	6,280.00	
	001560 TRITON CONSTRUCTION	125690	12/15/22	400.00	
	004030 U.S. BANK CORPORATE	125691	12/15/22	24,051.51	
	004032 URETSKY SECURITY	125692	12/15/22	2,664.38	
	003924 VIRTUAL PROJECT MANAGER	125693	12/15/22	1,000.00	
	003971 WIZIX TECHNOLOGY GROUP,	125694	12/15/22	347.40	
	GENERAL CHECKING ACCOUNT			793,145.92	***

SCOTTS VALLEY ACCOUNTS PAYABLE
CITY OF SCOTTS VALLEY
12/15/2022 22:11:26
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Check Register

BANK	VENDOR	CHECK#	DATE	AMOUNT
REPORT TOTALS:				793,145.92

RECORDS PRINTED - 000138

GL540R

FUND RECAP:

FUND	DESCRIPTION	DISBURSEMENTS
----	-----	
001	GENERAL	558,841.23
004	RECREATION	36,225.59
010	WASTEWATER OPERATIONS	104,637.32
028	SENIOR CENTER	2,516.01
088	LIBRARY FACILITIES-MEAS "S"	84,833.51
112	DENTAL INS INTERNAL SERV	2,071.72
123	COMMUNITY FACILITY CENTER	3,233.27
150	GENERAL CAPITAL IMPROVEMENTS	315.29
312	POLICE - BUDGET ACT OF 2016	471.98
TOTAL ALL FUNDS		793,145.92

BANK RECAP:

BANK	NAME	DISBURSEMENTS
----	-----	
BA	GENERAL CHECKING ACCOUNT	793,145.92
TOTAL ALL BANKS		793,145.92

City of Scotts Valley CITY COUNCIL STAFF REPORT

DATE: December 21, 2022

TO: Honorable Mayor and City Council

FROM: Phillip Linarte, Senior Civil Engineer

REVIEWED: Chris Lamm, Public Works Director/City Engineer

APPROVED: Mali LaGoe, City Manager

SUBJECT: AERATION BASIN SYSTEM UPGRADES- PROFESSIONAL SERVICES AGREEMENT AWARD

SUMMARY OF ISSUE

Background

Through the Capital Improvement Program (CIP), the City allocated funds to upgrade the Aeration basin system at the Wastewater Treatment Plant. In March of 2020 a 'Condition Assessment and Process Review' report was developed for the City of Scotts Valley Wastewater Treatment and Reclamation Facility. The key findings of the report were that the treatment plant is dealing with aging infrastructure, as it was constructed in 1993 and has not seen major upgrades as well as outdated technologies.

Several projects are listed within the Wastewater CIP funds to ensure that the Wastewater Treatment plant is operating efficiently, able to maintain compliance with the requirements of the State Water Board, and will maintain operations through unexpected natural disasters. The upgrades to the Aeration Basin are the first in a series of projects to update essential infrastructure for the City of Scotts Valley.

The Wastewater Reclamation Facility Option Study, completed in August 2022 re-affirmed the need to complete short-medium term projects like the Aeration Basin System Upgrades while the ultimate plan for the future of the facility is determined.

Analysis

This project will provide planning, design, and construction support services for the upgrades to the Aeration Basin. Anticipated work includes replacing aeration air piping, air headers upgrade, pipe labeling, changing elevation of effluent weirs, coating repair, dissolved oxygen sensors upgrade, impeller upgrades, install PLC controller system, update the SCADA system, and polymer additive system to independently operate each basin of the aeration system and optimize oxidation at the Wastewater Treatment Plant. The aeration system controls the aeration tanks, diffusers, air distribution piping, blowers, and control system.

The City issued a request for proposals for the Aeration Basin System Upgrades Engineering Services Project on October 18th, 2022. The proposals were evaluated based on responses relative to the services including pricing, experience, and other relevant factors.

Public Works staff received one proposal on November 17th, 2022 from HERWIT Engineering for \$279,626.

The project consists of two phases. The first phase consists of engineering and design support, based on the recommendation of the Condition Assessment report (\$116,208). The second phase consists of construction/project management support (\$163,418).

Staff reviewed the proposal and took into consideration the size of company, estimated cost to perform the work, and previous work performed for the City of Scotts Valley. The consultant has been upgrading existing wastewater treatment plants and managing their construction for more than 20 years.

FISCAL IMPACT

The project is included within the Adopted Fiscal Year 2022-23 Capital Improvement Program, CIP-6, and is funded with \$1,000,000 of Wastewater Capital Reserve Fund.

There is no impact to the general fund.

STAFF RECOMMENDATION

Staff recommends that the City Council award the professional services agreement to HERWIT Engineering in the amount of \$279,626 for the Aeration Basin System Upgrades Engineering Services Project and authorize the City Manager to execute the agreement in a form acceptable to the City Attorney.

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**CITY of Scotts Valley
RFQ for Aeration Basin
System Upgrades
Engineering Services**

RFQ Response

**City of Scotts Valley
Wastewater Treatment and
Reclamation Facility**



November, 17 2022



November 17, 2022

Phillip Linarte, Senior Civil Engineer
Department of Public Works
701 Lunde Lane
Scotts Valley, CA 95066

Subject: **Request for Qualifications Aeration Basin System Upgrades Engineering Services**

Dear Phillip:

Thank you for the opportunity to propose on the City of Scotts Valley Aeration Basin System Upgrades RFQ. HERWIT Engineering has extensive experience in the planning, design, and construction management of wastewater facilities of all sizes and types. HERWIT Engineering has performed full-service design and construction services for the following wastewater treatment plants. All of these projects included fully integrated wastewater processes similar to Scotts Valley WWTP.

- El Dorado Irrigation District
 - \$1.1 Million DCWWTP Process Control Improvements Project
 - \$600 K Deer Creek WWTP Aeration Blower Replacement Project.
- The Town of Discovery Bay Community Services District
 - \$7 Million Effluent Filtration Project
 - \$16 Million Denitrification and Master Plan Upgrades Project
- Selma-Kingsburg-Fowler CSD WWTP
 - \$3.9 Million WWTP Aeration Improvements Project
- City of Manteca Wastewater Quality Control Facility
 - \$2.5 Million North Plant Aeration Basin Efficiency Improvements
 - \$4 Million South Plant Aeration Basin Optimization Project

HERWIT Engineering has been upgrading existing wastewater treatment plants and managing their construction for more than 20 years. During this time, we have designed and constructed projects valued from \$100,000 to over \$20,000,000. Our projects have won CWEA (State) and WEF (National) Engineering Achievement awards on multiple occasions.

Sincerely,

A handwritten signature in blue ink, appearing to read "Gregory Harris".

Gregory Harris, PE, Partner
HERWIT Engineering
6200 Center Street, Suite 310, Clayton CA 94517
e-mail: gharris@herwit.com
Phone: 925-672-6599

CITY of Scotts Valley

RFQ for Aeration Basin System Upgrades Engineering Services

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SECTION 3 – STATEMENT OF QUALIFICATIONS

HERWIT Engineering History

HERWIT Engineering (HERWIT) was formed in 2000 as a California partnership by its principals Kurt Gardner, P.E., Masters in civil sanitary engineering and Gregory P. Harris, P.E., Masters in mechanical engineering. HERWIT has an office located in Clayton, California. Prior to forming HERWIT, Kurt and Gregory worked at Carollo Engineers for 13 and 9 years respectively.

HERWIT is an award-winning team-oriented firm that designs and manages the construction of wastewater treatment facilities with a specialty in rehabilitation of existing facilities. Wastewater design services include general wastewater treatment plant design and construction management services from headworks through disinfection with specialties in pumping systems, aeration blower systems, fine and coarse bubble aeration systems, aeration control systems, biosolids processing and handling, and wastewater treatment plant energy audits. Project sizes have ranged from construction costs of \$100,000 to \$20,000,000. The average HERWIT project is 100 plus design sheets with a construction cost of \$6 million. HERWIT projects have won CWEA (local and state level) and WEF (national) engineering achievement awards. HERWIT provides services for all elements necessary to develop projects from ground zero through completion of construction and operations.

HERWIT has been in business for 22 years, and has 3 employees.

HERWIT Clients

Current clients for HERWIT include The Town of Discovery Bay Community Services District, The Selma-Kingsburg-Fowler County Sanitation District, the City of Manteca, El Dorado Irrigation District, and as a subconsultant to Stantec Consulting Engineers for the City of Merced. Previous Clients include Delta Diablo Sanitation District, Napa Sanitation District, Veolia Water, ECO:LOGIC Engineers, the City of Brentwood, and Quest Energy Services.

HERWIT Qualifications

HERWIT Engineering has extensive experience in the planning, design, and construction management of wastewater treatment plants. HERWIT recently performed design and / or engineering and inspection services during construction for the following wastewater and electrical projects for El Dorado Irrigation District.

- El Dorado Irrigation District
 - DCWWTP Process Control Improvements Project (2019, \$1.1 Million)
 - EDHWWTP Solar Inverter Replacement Project (2021, \$135 Thousand)
 - EDHWWTP DAFT Rehabilitation Project (2021, \$1.6 Million)
 - DCWWTP Aeration Blower Replacement Project (2022, \$600K)

HERWIT recently performed design and full construction management and inspection services for the following wastewater treatment projects. All of these recent projects included fully integrated wastewater processes similar to Grass Valley WWTP.

- Town of Discovery Bay CSD
 - Denitrification and Master Plan Upgrades Project (2021, \$16 Million)
 - Effluent Filtration Project (2015, \$7 Million).
 - Secondary Improvements Project (2014, \$5.5 Million).
 - Influent Pump Station and Pump Station W Improvements (2013, \$1.3 Million)
 - Dewatering Facility Expansion (2011, \$4 Million)
- Selma-Kingsburg-Fowler (SKF) CSD
 - Secondary Clarifier and ML Line Improvements Project (2019, \$7.6 Million)
 - DAFT Replacement Project (2017, \$4 Million)
 - Headworks and Effluent Pump Station Improvements Project (2012, \$5.2 Million).
 - WWTP Aeration Improvements Project (2010, \$3.9 Million).

HERWIT also recently performed the master planning, grant writing, design, and engineering services during construction for the following recent City of Manteca projects.

- City of Manteca
 - Compressed Biogas Fueling Facility - Phase II (2018, \$9 Million)
 - South Plant Aeration Basin Optimization Project (2018, \$4 Million)
 - WQCF Digester Improvements Project. (2016, \$20 Million)
 - North Plant Aeration Basin Efficiency Improvements (2014, \$2.5 Million)
 - Biosolids and Biogas Utilization Master Plan (2016)
 - Solid Waste Master Plan (2016)
 - Grant Writing - California Energy Commission (2016, Awarded \$3.3 Million)
 - Grant Writing - San Joaquin Valley APCD (2016, Awarded \$1.89 Million)

Qualifications for the Scope of Work in RFQ

As you know, HERWIT Engineering prepared the initial Condition Assessment and Process Review of the aeration system for Scotts Valley. At that time, Scotts Valley was having trouble with the operation of their new Neuros High Speed Turbo blower in conjunction with their existing blowers. We were recommended to Scotts Valley by Neuros who we have worked with on many aeration projects over the past 13 years. HERWIT installed one of the first Neuros High Speed Turbo Blowers systems in California in 2009. Our recommendation to change the impeller size on the Neuros blower has been implemented by Kati King. This has now eliminated the need for an operator to manually monitor DO levels and manually start and stop a second blower when needed. This has greatly simplified the operation of the aeration system for the operations staff. This is just one example of our understanding your plant needs and using our experience with aeration systems to help the Scotts Valley WWTP run better.

As for the other items recommend in Tables 4.1 and 4.2 of the Condition Assessment, HERWIT has designed very similar systems for the other aeration projects listed above and is fully qualified to provide engineering services to support our previous recommendations.

Philosophy and General Approach

The partners at HERWIT Engineering take a hands on personal approach to solve problems and design custom solutions and for all of our clients. Our dedication to service above and beyond standard engineering has kept us working with many clients for more than 10 years and some clients for more than 20 years.

The philosophy behind the recommendations in the Assessment Report is to bring the aeration facilities at Scotts Valley up to a modern standard for control, operation, and redundancy. In doing this the facilities will be far easier to monitor and operate for operations staff and far more reliable for the City.

SECTION 4 – KEY PERSONNEL

The following Organization Chart indicates the personnel who will be assigned to this project. Short biographies of each person follow. Full resumes for each person can be found in the Appendix of this RFQ.

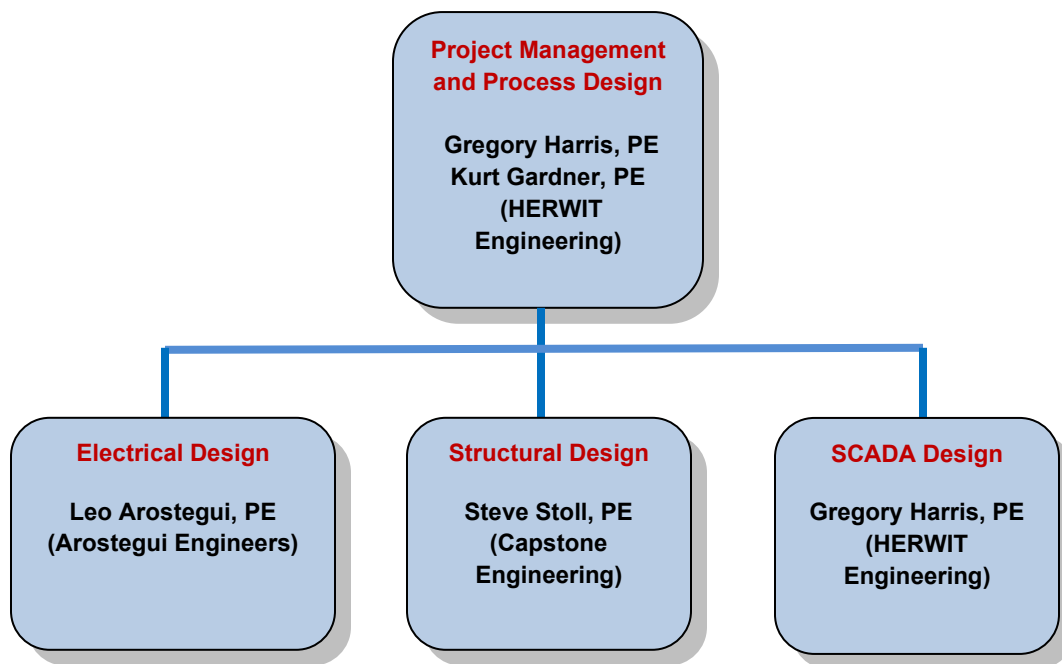


Figure 3-1 – The Scotts Valley Project Team Organization Chart

Summary of Team Member Experience

Gregory Harris, PE Partner,

Masters in Mechanical Engineering

Partner with HERWIT for 22 years

General consultation, engineering calculations, design preparation, construction management and inspection.

Mr. Harris is a principal in the company with 32 years of mechanical experience in the planning and design of water and wastewater treatment and pumping systems, headworks systems, aeration and blower systems, biosolids handling and digestion, gas usage and handling, electrical cogeneration, centralized boilers, HVAC, and odor control facilities for municipal and industrial clients. Mr. Harris also performs engineering construction services for all HERWIT projects and full construction management for many HERWIT projects. Mr. Harris has authored several papers on wastewater treatment plant control systems. Please see attached resume.

Functional Role: Mr. Harris will act as the project manager for Scotts Valley as well as process and design engineer. Mr. Harris served this role on the previous Condition Assessment report by HERWIT.

Kurt Gardner, PE Partner,

Masters in Civil Engineering

Partner with HERWIT for 22 years

General consultation, engineering calculations, design preparation, construction management and inspection.

Mr. Gardner is a principal in the company with 35 years of experience in the planning and design of wastewater treatment and pumping systems, headworks systems, oxidation ditches, clarifiers, filtration systems, aeration and blower systems and biosolids handling and digestion for municipal and industrial clients. Mr. Gardner has been the principal design engineer on wastewater treatment plants from 1.0 MGD up to 40 MGD with project construction sizes from \$1 million to \$60 million. Please see attached resume.

Functional Role:

Mr. Gardner will also act as project manager as needed and will perform civil and process design as part of the Scotts Valley Project. Mr. Gardner served this role on the previous Condition Assessment report by HERWIT.

Steve Stoll, SE

BS in Civil Engineering

Licensed Structural Engineer

Owner of Capstone Engineering for 13 years

Structural engineering calculations, design preparation, and structural and civil inspection.

Mr. Stoll is a principal in Capstone Structural Engineering. Mr. Stoll is a registered structural engineer in the State of California with over 23 years of experience in the design of structures for wastewater treatment plants. He has worked as a subconsultant to several wastewater firms including HERWIT, Stantec, and Carollo Engineers. Steve has performed all of the structural work for HERWIT for the last 18 years. Please see attached resume.

Functional Role:

Mr. Stoll is responsible for all structural design and will perform structural inspection as needed. Mr. Stoll previously acted in this role on all previous HERWIT projects for the past 15 years.

Leonel Arostegui, P.E.

BS in Electrical Engineering

Owner of Arostegui Engineers for 15 years

Electrical engineering calculations, design preparation, and electrical inspection.

Mr. Arostegui is a principal in Arostegui Engineers and has over 50 years of experience in electrical engineering design for industrial and wastewater treatment plants. He has worked for many wastewater firms including HERWIT, Stantec, Carollo Engineers, and CDM Engineers performing electrical design for wastewater treatment facilities. Leo has performed all of the electrical work for HERWIT since 2008. Please see attached resume.

Functional Role:

Mr. Arostegui is responsible for all electrical design and will perform electrical inspection as needed. Mr. Arostegui acted in this role on all previous HERWIT projects for the past 15 years.

Project Summary List with Team Member Participation

The proposed core project team of Kurt, Gregory, Steve, and Leo have been working together for more than 20 years. Since the formation of HERWIT, they have performed the planning design and construction services of the following projects. For each of these projects, each member performed the same functional role with the same responsibilities as those proposed for the City of Scotts Valley.

- El Dorado Irrigation District
 - DCWWTP Process Control Improvements Project (2019, \$1.1 Million)
 - EDHWWTP Solar Inverter Replacement Project (2021, \$135 Thousand)
 - EDHWWTP DAFT Rehabilitation Project (2021, \$1.6 Million)
 - DCWWTP Aeration Blower Replacement Project (2022, \$600K)
- Town of Discovery Bay CSD
 - Denitrification and Master Plan Upgrades Project (2021, \$16 Million)
 - Effluent Filtration Project (2015, \$7 Million).
 - Secondary Improvements Project (2014, \$5.5 Million).
 - Influent Pump Station and Pump Station W Improvements (2013, \$1.3 Million)
 - Dewatering Facility Expansion (2011, \$4 Million)
- Selma-Kingsburg-Fowler (SKF) CSD
 - Secondary Clarifier and ML Line Improvements Project (2019, \$7.6 Million)
 - DAFT Replacement Project (2017, \$4 Million)
 - Headworks and Effluent Pump Station Improvements Project (2012, \$5.2 Million).
 - WWTP Aeration Improvements Project (2010, \$3.9 Million).
- City of Manteca
 - Compressed Biogas Fueling Facility - Phase II (2018, \$9 Million)
 - South Plant Aeration Basin Optimization Project (2018, \$4 Million)
 - WQCF Digester Improvements Project. (2016, \$20 Million)
 - North Plant Aeration Basin Efficiency Improvements (2014, \$2.5 Million)

Our project team takes pride in the work we perform for our clients and monitors every detail of our projects. This has resulted in many happy repeat clients, projects delivered within our engineering budgets, and lower than industry average change orders. Our references will attest to the quality of our work, our responsiveness to our clients, and our budget control. HERWIT completed the design of all the projects listed above without a change order request for engineering services to the Owner. For most projects, our construction change orders fall below 2% of construction cost. Projects that exceed this level are almost always the result of Owner requested change orders for maintenance items or other project improvements.

Our Project team has successfully worked with the Scotts Valley staff during the original Condition Assessment report.

SECTION 5 - AVAILABILITY

Gregory Harris and Kurt Gardner are each available 25% of their time over the length of the project. Actual time commitment for HERWIT will ramp up and down based on each phase of the project. Steve Stoll and Leo Arostegui have more than 30% availability for this project and will be used at key phases during design.

SECTION 6 - CLIENT REFERENCES

Town of Discovery Bay CSD

Contact: Dina Breitstein
Assistant WW Manager
1800 Willow Lake Road
Discovery Bay, CA 94505
(925) 634-1131

Selma-Kingsburg-Fowler CSD

Contact: Veronica Cazares, PE
Interim District Manager
11301 E. Conejo, Ave.
Kingsburg, CA 93631
(559) 897-6500 ext 230
vcazares@skfcsd.org

City of Manteca

Contact: Dustin Valiquette
Wastewater Operations
Manager
City of Manteca
Tel. (209) 456-8486
dvaliquette@ci.manteca.ca.us

HERWIT engineering is entirely focused on client service for clients that appreciate custom engineering solutions to their problems. Here is what some of our clients have said about us.

"HERWIT Engineering has raised the bar at SKF"

Veronica Cazares, P.E., Interim District Manager, Selma-Kingsburg-Fowler CSD

"HERWIT Engineering for more than 20 years has done an outstanding job for the Town of Discovery Bay"

Virgil Koehne, Wastewater Manager (retired), Town of Discovery Bay CSD

"HERWIT Engineering is an exceptional engineering firm that provides outstanding service to the City of Manteca!"

Bret Swain, PE, Senior Engineer, City of Manteca Public Works

SECTION 7 - CONTRACT TERMS

Contract and Insurance Requirements

HERWIT has read the City's standard contract. HERWIT can comply with your standard contract with the following minor change.

Section 7 Indemnity. Add the following paragraph.

"The consultants' liability (including defense costs) shall be limited to the insurance coverage of the applicable Professional Liability, Commercial General Liability, and Automobile Liability policies."

Current insurance liability coverage: Professional Liability (\$2million/\$4million), Commercial General (\$1million/\$2million), Automobile Liability (\$1million).

HERWIT cannot afford infinite liability or liability beyond our available insurance for a small fee project.

HERWIT is a general partnership with all employees partners. As such, Workers Compensation Insurance is not required under State law.

Addenda

HERWIT has received and incorporated the following Addenda into this proposal.

Addendum No. 1 – November 2, 2022.

SECTION 8 – COST PROPOSAL

HERWIT will perform the work described in the project scope below the cost proposal tables. All work will be on a time and materials basis not to exceed contract. All work will be billed at the hourly rates included in the HERWIT Fee Schedules in the Appendix. Tables 8.1 and 8.2 provide a detailed breakdown of our cost proposal.

Table 8.1: Engineering Design Services												
			Staff Hours at Indicated Rate									
Task 1	Design Services - Aeration Basin System Upgrades		Supervising Engineer	Senior Engineer	Associate Engineer	Engineer	Supervising Designer	Designer 2	Administrative Assistant	HERWIT Labor Cost	Other Subs	Expenses
				235				120				
Design Services												
A	Update Cost Estimate & Set Final Project Scope			24						5,640		\$ 5,640
B	Review Existing Design Drawings & Latest Plant Data			24						5,640		\$ 5,640
C	Prepare 100% Plants & Specifications			240				120		70,800	14,280	\$ 85,080
D	Prepare 50% & 90% Submittals			8				8		2,840		\$ 2,840
E	Incorporate 50% & 90% Comments			8				16				\$ -
F	Meetings (Total of 3)			24						5,640		\$ 6,140
G	Prepare Final Bid Set for Bidding			8				8		2,840		\$ 2,840
H	Bid Assistance, Job Walk, Addenda & Conformed Dwgs			24				8		6,600		\$ 6,600
	Markup on Subs										1,428	\$ 1,428
	Subtotal 100% Design Services			360				160		100,000	15,708	500 \$ 116,208

Table 8.2: Engineering Construction Services												
			Staff Hours at Indicated Rate									
Task 2	Construction Services - Aeration Basin System Upgrades		Process Model Engineer	Supervising Engineer	Senior Engineer	Associate Engineer	Engineer	Supervising Designer	Designer 2	Administrative Assistant	HERWIT Labor Cost	Other Subs
					235				120			
Construction Services												
1	Primary Contact for Documentation and Field Issues				40						9,400	\$ 9,400
2	Review Pay Requests from Contractor				16						3,760	\$ 3,760
3	Conduct Construction Meetings & Prepare Meeting Notes				160						37,600	\$ 37,600
	Alternate Zoom & Field (2*24 Wks) + (8+2)/2*24 Wks											
4	Review Shop Drawings				120						28,200	4,080 \$ 32,280
5	Answer RFIs / Field Questions / Phone Calls / Coordination				80						18,800	4,080 \$ 22,880
6	Prepare Change Orders				16						3,760	\$ 3,760
7	Conduct Specialty Site Inspections w/ Meetings				16						3,760	\$ 3,760
8	Conduct Additional Site Inspections (1 / Wk * 6 hrs*24 Wks)				144						33,840	\$ 33,840
9	Conduct Final Inspection and Acceptance				8						1,880	1,020 \$ 2,900
10	Startup & Testing				16						3,760	\$ 3,760
11	Preparation of Record Drawings				16				40		8,560	\$ 8,560
	Markup on Subs											918 \$ 918
	Subtotal Construction Services				632				40		153,320	10,098 \$ 163,418

Scope of Services

HERWIT engineering has prepared the following engineering services proposals based on the Scotts Valley RFQ and Tables 4.1, 4.2, and 4.3 of the previous HERWIT Condition Assessment. The purpose of this scope is to prepare biddable plans and specifications for the installation of new aeration improvements at the Scotts Valley WWTP.

For clarity, Table 4.3 of the Condition Assessment is a watered down minimalist version of Table 4.1. Based on our discussions at the pre-proposal meeting and Addendum No. 1, we understand the City wants a scope of services for all recommended improvements and they will have further discussions of final scope items with the selected engineer during project scoping meetings.

Task 1 – Engineering Design Services

- A. Update costs estimate in the Condition Assessment based on recent construction inflation and meet with the City to review the final project scope for design.
- B. Review existing design drawings and data and conduct site visits needed for detailed design.
- C. Prepare 100% plans and specifications for public bidding of the Aeration Basin System Upgrades Project. Design elements to be included are as follows:
 - 1. Items listed in Table 4.1 and 4.2 of the previous Condition Assessment.
 - a) New stainless steel air piping, motorized valves and supports.
 - b) New spray piping.
 - c) Replace existing blower with Neuros high speed turbo blower.
 - d) New DO probes.
 - e) New Local control panel for the blowers and aeration control.
 - f) Modifications to existing networking and SCADA system.
- D. Prepare and submit 50% and 90% submittals for review and comment by the City.
- E. Incorporate 50% and 90% comments and prepare final plans and specifications for bidding.
- F. Attend 3 meetings at the project site.
- G. Provide a pdf copy of plans and specifications to Scotts Valley for distribution and bidding.
- H. Assist Scotts Valley with bidding process, including:
 - 1) Attend pre-bid meeting and job walk.
 - 2) Answer questions during bidding and prepare project addenda as needed to bid project.
 - 3) Prepare Conformed Documents

Task 2 – Construction Services

- A. Construction Management Services
 - 1. Act as Primary contact for all documentation.

2. Review pay requests from Contractor and Vendors and make recommendations to Owner.
 3. Prepare Project Change Orders.
 4. Conduct construction meetings as needed and prepare meeting notes.
 5. Conduct periodic site construction inspections as needed for compliance with the construction documents. Full time inspection is not included or normally required for a project of this size. All inspections are conducted by HERWIT Engineering Staff.
 6. Conduct final inspection for acceptance.
- B. Engineering Services During Construction
1. Review shop drawings/coordinate equipment.
 2. Answer project Requests for Information (RFI's) and field questions.
 3. Prepare change orders as required.
 4. Conduct specialty site inspections concurrent with progress meetings to verify compliance with the construction documents.
 5. Conduct final inspection for acceptance.
 6. Witness and help coordinate Startup & Testing.
 7. Preparation of Record Drawings.

ASSUMPTIONS

- A. All fees for all permits and applications shall be paid by Scotts Valley.
- B. All project approvals will be obtained by Scotts Valley.
- C. Existing drawings of the facility, SCADA data or other process data will be provided by Scotts Valley.
- D. Scotts Valley is the approving authority for this project and is the final say on plan approval.
- E. HERWIT will not perform full time inspection and site supervision. HERWIT will inspect key elements of the project to verify compliance with the construction documents. HERWIT will act as the Construction Manager.
- F. PDF backgrounds of the existing plant will be provided by Scotts Valley.

WORK ITEMS NOT INCLUDED IN SCOPE

The following items are not included in this scope of work. It is our understanding that the following items that may be necessary for completion of the project are contracted to others as identified below.

- A. Surveying and Photometric / Topographic background of the existing plant are not included in this scope of services.
- B. Geotechnical services are not included in this scope of services.
- C. No permits are normally needed for the planned project, and permitting is not included in this scope of services. Some cities do require a City building permit for their own wastewater projects. If this is desired by Scotts Valley, the scope can be adjusted once the City process is more fully understood.

- D. Material testing is not included in this scope of services.
- E. Daily/full time construction inspection is not included in this scope of services.
- F. SCADA programming or SCADA construction is not included in this scope of services.

SCHEDULE

HERWIT Engineering will begin immediately upon authorization of the Contract. The current design schedule is as follows:

Item Description	Date
Begin Design	January, 2023
50% Submittal	March, 2023
90% Submittal	May, 2023
Complete Design	June, 2023
Advertise for Bids for Construction	June, 2023
Receive Bids for Construction	July, 2023
Notice to Proceed	August, 2023
Construction and Startup Completion	April, 2024

The schedule assumes a 2-week review period by City staff at each submittal.

APPENDIX A-1 - RESUMES

Education:

BS Mechanical Engineering, University of Portland, 1989

MS Mechanical Engineering, University of Nevada, Reno, 1990

Registrations:

Mechanical

Professional Engineer, California M028326

Nevada M11339

Professional Affiliations:

Water Environment Federation

California Water Environment Association

Mr. Harris is a principal in the company with 29 years of mechanical experience in the planning and design of water and wastewater pumping, biosolids handling and digestion, gas usage and handling, electrical cogeneration, centralized boilers, HVAC, and noise control facilities for municipal and industrial clients. Project experience includes:

Wastewater Treatment Plant Process Planning and Design

- Project Manager and Design Engineer for the Selma-Kingsburg-Fowler Secondary Clarifier Mixed Liquor Line Improvements project. Responsibilities included the design of 42 inch Mixed Liquor line, replacement of two 90 feet diameter and two 65 feet diameter clarifiers, new RAS pump station, and extensive yard piping replacement, all while keeping the 8 MGD facility on line. Project included detailed phasing plane with 5 different bypasses required.

- Project Manager and Design Engineer for the City of Richmond-Veolia cogeneration alternatives analysis. Project included evaluations of fuel cells, I.C. engines, and micro turbines, gas sampling and design of gas conditioning systems with 12,000 ppm hydrogen sulfide and siloxane removal.

- Project Manager and Design Engineer for the Discovery Bay Wastewater Treatment Plant Effluent Filtration Project. Responsibilities included the design of new continuous flow final effluent filtration, replacement of the existing UV system, chemical facilities and automation of bypass flow diversion system.

- Project Manager and Design Engineer for the Selma-Kingsburg-Fowler County Sanitation District 8 MGD Headworks Improvement and Effluent Pump Station Project. Project included new influent screw pumps, bar screens and washer compactor, grit chambers and grit classifiers, new MCC

building, and new effluent pumps. Total project cost \$7 Million

- Project Manager and Design Engineer for the Discovery Bay Wastewater Treatment Plant Secondary Improvements Project. Project included the design of oxidation ditch, pump stations, secondary clarification, flow splitting, and related yard piping.

- Project Manager and Design Engineer for the Selma-Kingsburg-Fowler Aeration Improvements project. Project consisted of installing 6 high speed turbo blowers, 10,000 fine bubble diffusers and a new SCADA system for this 8 MGD facility.

- Planning and Design Engineer for the Napa Sanitation District Blower Replacement Project. Project included energy audit and recommendations to replace the existing multi-stage centrifugal blowers with new high speed single stage turbo blowers. Designed the blower installation and the new dissolved oxygen control system. Project saved 160 hp on continuous basis and improved their DO control system operation substantially.

- Design Engineer for the aeration portion of the South Truckee Meadows Water Reclamation Facility Expansion predesign. Included conversion of the existing coarse bubble diffuser system to fine bubble, and design of a 1.0 mgd basin with 5,000 CFM multi stage blower expansion and the aeration control system design.

Solids Handling Facility Planning and Design

- Planning and Design Engineer for the City of Manteca WQCF Biosolids and Biogas Utilization Plan, process design, system sizing and recommendations and costs for anaerobic digesters, gas conditioning systems, sludge thickening, and sludge dewatering facilities to support 10 MGD wastewater treatment capacity.
- Planning and Design Engineer for the City of Manteca Solids Waste Master Plan including AB 1826 compliance, plan development to achieve 75% diversion from the landfill of all solid waste produced in the city, the design of a food waste screening and digestion facility, and an economic analysis of biogas utilization options including electrical cogeneration, and bio-CNG production for City vehicles.
- Design Engineer for the Selma-Kingsburg-Fowler County Sanitation District Aerobic Digester Improvements Project.
- Planning Engineer for the Selma-Kingsburg-Fowler County Sanitation District Facilities Master Plan biosolids handling facilities, including WAS thickening, aerobic digestion, dewatering, electrical cogeneration, and biosolids drying facilities.
- Planning Engineer for the City of Brentwood Facilities Master Plan biosolids handling facilities, including WAS thickening, aerobic digestion, dewatering, electrical cogeneration and biosolids drying facilities.
- Planning and Design Engineer for the City of Merced digestion, Dewatering and Class A biosolids project. Facilities included a new digester control building, a third digester, new solids holding tank, a new centrifuge dewatering building, and a Class A active solar drying facility. Total solids handling capacity of 30,800 dry lbs/day and project cost of \$25 million.
- Design Engineer for the City of Lincoln Dewatering facility, including building, two 29 inch centrifuges, solids holding tank, sludge feed systems, 22% solids cake pumping system, and truck loading facility. Total project cost of \$9 million.

- Design Engineer for the City of Richmond Digester Rehabilitation Project through Veolia Water NA for two 100-foot diameter digesters with flexible membrane covers and design of a new digester control building with necessary digester support equipment, gas cleaning system to remove 12,000 ppm hydrogen sulfide, and preparation of all air permits. Total project cost of \$5.5 Million.
- Planning and Design Engineer for the City of Lincoln Class A Active Solar Drying additions, including Class A throughput of 4 dry tons per day of Class A material and high solids cake pumping system. Project designed to recover waste heat from future electrical cogeneration facility to increase capacity of the dryers. Total project cost of \$3.3 million.
- Planning Engineer for the City of Merced fats, oils, and grease receiving facility pre-design as sub-consultant to Stantec Engineering.

WWTP Energy Efficiency

- Engineer for the energy efficiency audits and analysis of treatment plants for the California Wastewater Optimization program. This included detailed process evaluations, alternatives comparisons, and estimating total energy savings and project costs for implementation. Design and assist in construction of all recommended procedures. Energy usage was measured before and after improvements against calculated energy savings. Treatment plants include: City of Soledad, Wasco Prison, Town of Discovery Bay, Olivehain WWTP, OTAY water District, Half Moon Bay, and City of Planada.

Facility Planning and Predesign

- Planning Engineer for the planning, of the City of Merced digestion, Dewatering and Class A biosolids project. Facilities planned included a new digester control building, a third digester, new solids holding tank, a new centrifuge dewatering building, and the largest active solar drying facility in the world for Class A biosolids production. Total solids handling capacity of 30,800 dry lbs/day.

- Planning Engineer for the planning, of the City of Rio Vista Class A biosolids project which included belt presses and active solar drying to produce 2,800 dry lbs/day of Class A biosolids.

- Engineer for the Sacramento Regional Wastewater Treatment Plant's award winning master plan (Sacramento, California). For this 150-mgd facility, developed future facilities requirements for the influent and effluent storage and pumping facilities; all plant water, air, and heating and cooling utility systems, including over 900 tons of cooling; the plant tunnel system; and the laboratory and administrative facilities.

- Project engineer on the Biosolids Management Plan for the City of Palo Alto, California. The plan encompassed short and long-term planning needs for all solids processing including evaluation of egg-shaped and conventional digesters, lime and heat stabilization, and sludge incineration systems at the facility.

- Lead project engineer for the Sacramento Regional Wastewater Treatment Plant, Sacramento, California liquid oxygen generation and storage facility predesign study. Project included facilities assessment and predesign of 2,500-HP air compressors, 150-tons per day liquid oxygen (LOX), vaporizers, 90,000 gallons of LOX storage, an additional cryogenic tower, and electrical and cooling water upgrades to service the facility.

- Design engineer for the Sacramento Regional Wastewater Treatment Plant, Sacramento, California biosolids facility predesign. Developed preliminary design of chemical handling systems, odor control systems, building ventilation, hydraulic power system, sludge cake pumping and storage systems.

- Lead project engineer for the Sacramento Regional Wastewater Treatment Plant, Sacramento, California electrical substation predesign. Managed project and discipline engineers in developing electrical loads for entire 150-mgd facility, identified new 12-kV substation requirements, location and layout.

- Engineer for the City of Fresno, California wastewater treatment plant master plan. Performed capacity evaluation for the 300-mgd headworks and discharge canal system. The canal system split 70 mgd of flow among 40 onsite percolation ponds.

- Engineer for the Sacramento Regional Wastewater Treatment Plant, Sacramento, California master plan update. Updated previous master plan work for the Sacramento Regional Wastewater Treatment Plant.

- Project engineer for the City of Hayward, California DECTO Pump Station predesign. Developed cost alternatives, layouts, and predesign of 9,000-gpm fresh water pumping station including pumps, piping, and standby power system.

Renewable Energy - Electrical Cogeneration Planning and Design

- Design Engineer for the City of Tulare 900 kW fuel cell project as sub-contractor to Applied Filter Technology and Alliance Power. Project included the system layout, process flow development, gas cleaning system design for 2,000 ppm hydrogen sulfide removal and siloxane removal including water only tower scrubbing followed by iron sponges. Water scrubbing provided a unique solution to removing the high concentration of hydrogen sulfide from the system without costly changes of iron sponge media. The system has operated for over a year without any change out of the iron sponge media and the project has been a big success for the City of Tulare.

- Planning Engineer for the evaluation of solar and wind systems for the Town of Discovery Bay Community Services District 750 kW solar project. The work included requesting and evaluating proposals for Owner Built and for third-party design build systems with power purchase agreements, calculating energy rebates and credits and final recommendations to the District.

- Planning and Design Engineer for the City of Richmond-Veolia cogeneration alternatives analysis. Project included evaluations of fuel cells, I.C. engines, and micro turbines, gas sampling and design of gas conditioning systems with 12,000 ppm hydrogen sulfide and siloxane removal.

Education:

*BS Civil Engineering,
Oregon State University,
1986*

*MS Sanitary
Engineering, Oregon
State University, 1987*

Registrations:

Civil

*Professional Engineer,
California C045712,*

*Nevada C1290, and
Washington C46769*

**Professional
Affiliations:**

*California Water
Environment Association*

*Water Environment
Federation*

Mr. Gardner has over 31 years of experience in wastewater planning, design and construction. His experience includes:

**Wastewater Treatment Plant
Process Planning and Design**

- Project Manager and Design Engineer for the Selma-Kingsburg-Fowler Secondary Clarifier Mixed Liquor Line Improvements project. Responsibilities included the design of 42 inch Mixed Liquor line, replacement of two 90 feet diameter and two 65 feet diameter clarifiers, new RAS pump station, and extensive yard piping replacement, all while keeping the 8 MGD facility on line. Project included detailed phasing plan with 5 different bypasses required.

- Project Manager and Design Engineer for the City of Richmond-Veolia cogeneration alternatives analysis. Project included evaluations of fuel cells, I.C. engines, and micro turbines, gas sampling and design of gas conditioning systems with 12,000 ppm hydrogen sulfide and siloxane removal.

- Project Manager and Design Engineer for the Discovery Bay Wastewater Treatment Plant Effluent Filtration Project. Responsibilities included the design of new continuous flow final effluent filtration, replacement of the existing UV system, chemical facilities and automation of bypass flow diversion system.

- Project Manager and Design Engineer for the Selma-Kingsburg-Fowler County Sanitation District 8 MGD Headworks Improvement and Effluent Pump Station Project. Project included new influent screw pumps, bar screens and washer compactor, grit chambers and grit classifiers, new MCC building, and new effluent pumps. Total project cost \$7 Million

- Project Manager and Design Engineer for the Discovery Bay Wastewater Treatment Plant Secondary Improvements Project. Project included the design of oxidation ditch, pump

stations, secondary clarification, flow splitting, and related yard piping.

- Project Manager and Design Engineer for the Selma-Kingsburg-Fowler Aeration Improvements project. Project consisted of installing 6 high speed turbo blowers, 10,000 fine bubble diffusers and a new SCADA system for this 8 MGD facility.

- Project Engineer for the Interim Capacity Improvements Project for the Fresno/Clovis Regional Wastewater Reclamation Facilities. His responsibilities included the evaluation of the existing aeration basins and equipment, analysis of alternatives for increased capacity, and design and implementation of improvements to existing aeration basins, including compartmentalization and the addition of liquid oxygen on an interim basis.

- Project Manager for the design of the Fresno/Clovis Regional Wastewater Reclamation Facilities 80-MGD Primary/Secondary Expansion. His responsibilities included overall site coordination and layout, overall project coordination between multiple offices and disciplines, manpower planning and budget control.

- Project Engineer for the Fresno/Clovis Regional Wastewater Reclamation Expansion construction project. Mr. Gardner was directly involved in all office support during construction, including shop drawing review, site visits, design clarifications, and change order preparation.

- Project Manager for the Fresno/Clovis Regional Wastewater Reclamation Facilities 80-MGD Primary/Secondary Expansion construction project. Mr. Gardner was in charge of all office support during construction, including shop drawing review, site visits, design clarifications, change order preparation, and manpower planning and budget control.

- Project Manager and Design Engineer for the Discovery Bay Wastewater Treatment Plant 2.0 MGD Expansion Project. His responsibilities included the design of the oxidation ditch, pump stations, secondary clarification, chlorine contact basin, aerobic digester and sludge beds with associated aeration equipment, flow splitting, and related yard piping. In addition, Mr. Gardner was responsible for the overall project coordination between multiple disciplines, manpower planning and budget control.

- Project Manager and Design Engineer for the Discovery Bay Wastewater Treatment Plant 2.0 MGD Expansion Construction Services Project. Mr. Gardner was in charge of all construction services support to the Owner during construction, including shop drawing review, site visits, design clarifications, and change order preparation.

- Responsible for the design of various unit processes for the 30-mgd Vallejo Sanitation and Flood Control District (VSFCD) Wet Weather Treatment Facilities. His responsibilities included the design of the grit basin and bar screens, as well as the plant drain, No. 3 water and effluent pump stations. Mr. Gardner was also responsible for the final construction cost estimate.

- Project Engineer for the Discovery Bay 1988 Wastewater Treatment Plant Expansion including the design of pump stations, secondary clarification, chlorine contact basin, sludge beds, flow splitting, and related yard piping. In addition, Mr. Gardner developed the construction cost estimate for the expansion and developed the Operations and Maintenance Manual for the existing treatment plant.

- Project Engineer for the South Tahoe Public Utility District's 7.7-mgd Immediate Expansion Project. The project included retrofitting new bar screens in the existing headworks, flow improvements to the existing grit basin, installation of new ducting systems and scrubbers in several buildings, installation of new VFD's and motors on the existing RAS pumps, and various piping changes to eliminate flow restrictions throughout the plant.

- Project Engineer for the Bakersfield Pretreatment Report for the City of Bakersfield. The report included the review of enforcement strategies and fee schedules in

addition to calculation of acceptable industrial pretreatment limits.

- Discipline Engineer for the Preliminary Design Report for the 100-mgd Point Isabel Wet Weather Treatment Facilities. Mr. Gardner was responsible for evaluating various conveyance alternatives including retrofitting or replacing the existing booster pump station and pipelines.

Solids Handling Facility Planning and Design

- Planning and Design Engineer for the Selma-Kingsburg-Fowler CSD DAFT replacement project. Responsibilities included the design of 1,200 gpm, rotary drum thickener systems with all polymer and support equipment in a new thickening building built on top of the previous gravity thickener tank.

- Design Engineer for the Selma Kingsburg Fowler County Sanitation District Aerobic Digester Improvements Project.

- Planning and Design Engineer for the City of Merced Digestion, Dewatering and Class A Biosolids project. Facilities included a new digester control building, a third digester, new solids holding tank, a new centrifuge dewatering building, and a Class A active solar drying facility. Total solids handling capacity of 30,800 dry lbs/day and construction cost of \$25million.

- Design Engineer for the City of Lincoln Dewatering Facility, including building, two 29- inch centrifuges, solids holding tank, sludge feed systems, 22% solids cake pumping system, and truck loading facility. Total project cost of \$9 million.

- Design Engineer for the City of Richmond Digester Rehabilitation through Veolia Water NA for two 100-foot diameter digesters with flexible membrane covers and design of a new digester control building with necessary digester support equipment, gas cleaning system to remove 12,000 ppm hydrogen sulfide, and preparation of all air permits. Total project cost of \$5.5 Million.

- Planning and Design Engineer for the City of Lincoln Class A Active Solar Drying additions, including Class A

throughput of 4 dry tons per day of Class A material and high solids cake pumping system. Project designed to recover waste heat from future electrical cogeneration facility to increase capacity of the dryers. Total project cost of \$3.3 million.

- Planning and Design Engineer for the City of Rio Vista Class A Biosolids project which included new dewatering building with belt presses and active solar drying to produce 2,800 dry lbs/day of Class A biosolids.
- Planning and Design Engineer for Town of Discovery Bay solids handling additions. Project included belt press dewatering and active solar drying facility for the production of 1,980 dry lbs per day of Class A biosolids.
- Planning and Design Engineer for the City of Salida Class A Biosolids project which included belt presses optimization and improvements and active solar drying to produce 2,200 dry lbs/day of Class A biosolids.
- Design Engineer for the 150 mgd, Sacramento Regional Wastewater Treatment Plant-Synagro, Sludge Screen System to screen all sludge from the plant prior to dewatering and drying.

Renewable Energy - Electrical Cogeneration Planning and Design

- Design Engineer for the City of Tulare 900 kW Fuel Cell project as sub-contractor to Applied Filter Technology and Alliance Power. Project included the system layout, process flow development, gas cleaning system design for 2,000 ppm hydrogen sulfide removal and siloxane removal including water only tower scrubbing followed by iron sponges. Water scrubbing provided a unique solution to removing the high concentration of hydrogen sulfide from the system without costly changes of iron sponge media. The system has operated for over a year without any change out of the iron sponge media and the project has been a big success for the City of Tulare.

STEVE D. STOLL, S.E.

EDUCATION	Bachelor of Science in Civil Engineering	1992
	California Polytechnic State University	
	San Luis Obispo, California	
REGISTRATION	Civil Engineer, California #55184	1996
	Structural Engineer, California #4431	2000
	Civil/Structural Engineer, Nevada #16431	2004
	Civil/Structural Engineer, Washington #47305	2010
EXPERIENCE	Capstone Structural Engineering Owner	12/08-Present
	Structcon-Vice President Structural Engineer	3/00-12/08
	Gerard Homer & Associates Structural Engineer	6/98-3/00
	Structcon Civil Engineer	6/93-6/98
	S.M.W. Seiko Engineer-in-Training	6/92-6/93
ORGANIZATION	American Society of Civil Engineers Member	
	Structural Engineers Association of California Member	

PROJECTS

Steve Stoll has been performing the structural design of wastewater facilities since 1996 and has worked on over 50 wastewater facilities. Following are recent examples of significant projects in which Steven Stoll has had a primary role in the structural design and construction supervision:

DIGESTER AND SOLIDS HANDLING FACILITIES

Discovery Bay Solar Dryer No. 3 2012

Discovery Bay Dewatering Facilities Expansion 2012

Merced WWTP Phase V 2010,

(E) Digester Control Building No. 1 Modification, Gas Holder Slab, Solids Holding Tank, Dewatering Building, Centrate Equalization Tank, Active Solar Drying Facility, Condensate Trap Pit, (E) Primary Digester Nos. 1 & 2 Rehab, Primary Digester No. 3 (Designed, not constructed).

SKFCSD WWTP Aeration and Aerobic Digester Improvements 2010

Dinuba WWRF Phase I dewatering facility 2010

Richmond WPCP Digester Control Building No. 2 2009,

Salida Active Solar Dryer 2009

Richmond WPCP Digester Rehabilitation Project 2008

Sanger WWTP Expansion and Upgrade 2007 (Designed, not Constructed)

RAS/WAS Pump Station, Centrifuge Facility, (E) Digester No. 1 Modifications and Rehab.

Discovery Bay Plant No. 2 - Solids Dewatering Facility and Active Solar Dryers

City of Rio Vista Northwest WWTF- Solids Dewatering Building and Active Solar Dryers

Madera Digester Rehab.

City of Bakersfield WWTP Expansion 1997

Digesters Nos. 5 & 6, (E) Digester Control Building Expansion

WASTE WATER & WATER TREATMENT FACILITIES

Discovery Bay Community Services District Secondary Improvements 2013

City of Lathrop Consolidated Treatment Facility 1.0 MGD Expansion Project 2013

City of Lincoln WWTRF Expansion 2013

SKFCSD Headworks Improvements & Effluent Pump Station 2012

Donner Summit PUD WWF Upgrade and Expansion Project 2012

Discovery Bay Solar Dryer No. 3 Slab 2012

Discovery Bay Dewatering Facilities Expansion 2012

Richmond WPCP EDS Rehabilitation 2011

Tachi Palace Hotel and Casino WTP Upgrade 2011

Merced WWTP Phase V 2010

San Joaquin 0.5 MGD WWTP Expansion 2010

Woodlake WWTF Phase I 2010

Dinuba WWRF Phase I 2010

SKFCSD WWTP Aeration Improvements 2010

Community of Monte Verdi-CSA 44D WWTF Improvements 2010

Vancouver WWTP Westside 2000 Decant Station 2009

Richmond WPCP Digester Control Building No. 2 2009

Richmond WPCP Influent Pump Station 2009

Salida Active Solar Dryer 2009

Wasco 4.5 MGD WWTP Expansion 2009

Project Assignment

Principal Electrical Engineer

Years of Experience

52

Education

B.S. Electrical Engineering, Heald Engineering College, San Francisco, 1964

Registrations

Registered Professional Engineer Electrical in California - E8026

Registered Professional Engineer Electrical In the State of Washington - 14448

Professional Affiliations

Institute of Electrical and Electronics Engineers (IEEE)

Life Member

Relevant Experience

Digester and Solids Handling Facilities

- (2011) Provide electrical design and construction support for the Town of Discovery Bay Community Services District, Dewatering Facilities.
- (2010) Provide electrical/Instrumentation engineering design and construction support for Selma-Kingsburg-Fowler County Sanitation District WWTP Aeration and Aerobic Digesters Improvements Projects which included the replacement of existing Aeration Blowers with 4-300HP and 2-200HP Neuros Blowers.
- (2009) Provide electrical/Instrumentation engineering design and construction support for the City of Richmond WPCP Digester Control Building No. 2.
- City of Richmond WWTP Dewatering Facility 30% design completed.
- Fresno/Clovis Organic Upgrades Project (2004); Design a new 5-KV switchgear and solid state reduced voltage starter for two new 1500 HP blower motors. Design of new electrical facilities for a new digester control building.
- EBMUD upper San Leandro and El Sobrante Water Treatment Plants (2001). In charge of design of sludge collection modifications.
- Electrical Engineer in charge of the design of the electrical system for the City of Visalia Digester No. 5.
- Electrical engineer in charge of the City of Oroloma Digester Control Room upgrade.

Wastewater Treatment Facilities

- (2015) Provide electrical design for the Town of Discovery Bay Community Services District, Effluent Filtration Project.
- (2014) Provide electrical design and construction support for the Town of Discovery Bay Community Services District, Pump Stations G, C, and A.
- (2013) Provide electrical design and construction support for the Town of Discovery Bay Community Services District Secondary Improvements Project.
- (2012) Provide electrical design and construction support for the Town of Discovery Bay Community Services District, Pump Station W.
- (2012) Provide electrical design and construction support for Selma-Kingsburg-Fowler Headworks Improvements Project.
- (2011) Provide electrical design and construction support for the Town of Discovery Bay Community Services District, Dewatering Facilities.
- (2010) Provide electrical design and construction support for the Town of Discovery Bay Community Services District UV System Modifications.
- (2010) Completing the electrical design for the City of Richmond WPCP Electrical Distribution System Rehabilitation Project Including a new 12-KV power distribution system with satellite electrical substations.
- (2010) Provide electrical/Instrumentation engineering design and construction support for Selma-Kingsburg-Fowler County Sanitation District WWTP Aeration Improvements Project which included the replacement of existing Aeration Blowers with 4-300HP and 2-200HP Neuros Blowers.
- (2009) Provide electrical design and construction support for the City of Richmond WPCP Influent Pump Replacement and Ventilation Improvements Projects.
- (2009) Provide electrical/Instrumentation engineering design and construction support for the City of Richmond WPCP Digester Control Building No. 2.
- Provide electrical engineering design and construction support for NAPA Sanitation District, 300-HP Blowers Replacement Project.
- (2007-2010) Support for the construction of the Fresno/Clovis RWRf Organic Upgrades Project.
- Design of the electrical power system for the City of Reedley 2006 WWTP Expansion and Upgrade Project.

APPENDIX A-2 - FEE SCHEDULE

HERWIT
ENGINEERING

HERWIT ENGINEERING
1/01/23 - 12/31/23 FEE SCHEDULE

<u>Personnel</u>	<u>Hourly Rate</u>
Engineering (Process, Mechanical, Civil)	\$235.00
Drafting	\$120.00
Word Processing / Office Support	\$90.00
<u>Subconsultants</u>	
Engineering (Electrical - Structural)	\$170.00
Other Direct Costs	
Subconsultants	Cost + 5%