

Julie Kennedy, President
Lisa Palmer, Vice President
Tom Fayram, Director
Greg Parks, Director
Nina Stormo, Director



**LOS OLIVOS COMMUNITY SERVICES DISTRICT
REGULAR MEETING**

Posted: 5-10-2024

May 15, 2024, 6PM (PST)

Los Olivos Grange Hall

2374 Alamo Pintado Ave, Los Olivos CA 93441

Please observe decorum and instructions from the President

This meeting will be held both in-person and electronically via Zoom meetings. In-person the meeting will be held at the following location:
St Mark's in the Valley Episcopal Church, Stacy Hall - 2901 Nojoqui Ave, Los Olivos CA 93441

The public will also be able to hear and participate electronically by using the following links:

On Zoom:

<https://us06web.zoom.us/j/86135156557?pwd=4sl90bmVH88b51RlbLhlyUaGD52CFf.1>

By Phone:

Meeting ID: 861 3515 6557 Passcode: 157483

One tap mobile: +16699006833,,86135156557#,,,,*157483# US (San Jose)

The Los Olivos Community Services District (LOCS D) is committed to ensuring equal access to meetings. In compliance with the American Disabilities Act (ADA), if you need special assistance to participate in the meeting or need this agenda provided in a disability-related alternative format, please call 805.500.4098 or email to losolivoscscsd@gmail.com. Agendas and meeting packets are generally available to the public at the Los Olivos Post Office - 2880 Grand Avenue. Any public records, which are distributed less than 72 hours prior to this meeting to all, or a majority of all, of the District's Board members in connection with any agenda item (other than closed sessions) will be available for public inspection at the time of such distribution at a location to be determined in Los Olivos, California 93441.

MEETING AGENDA

1. CALL TO ORDER

2. ROLL CALL

3. PLEDGE OF ALLEGIANCE

4. PUBLIC COMMENT

Members of the public may address the Board of Directors on any items of interest within the subject matter and jurisdiction of the Board but not on the agenda today (Gov. Code - 54954.3). The public may also request future agenda topics at this time. Speakers are limited to a maximum of 3 minutes. Due to the requirements of the Ralph M. Brown Act, the Board of Directors cannot take action today on any matter not on the agenda, but a matter raised during Public Comments can be referred to District staff for discussion and possible action at a future meeting.

INFORMATIONAL ITEM:

Per public request, a brief report from the General Manager that conveys District status and updates is being added at the beginning of the agenda. This status report may touch on key items in the project plan or schedule. The General Manager will leave other detailed reporting, including budgetary reporting until the end of the meeting. This item is informational only, no action will be taken, and no public comment will be received.

5. GENERAL MANAGER'S BRIEF DISTRICT STATUS REPORT

ADMINISTRATIVE ACTION ITEMS:

All matters listed hereunder constitute an administrative / consent agenda and will be acted upon by a single vote of the Board. Matters listed on the Consent Agenda will be read only on the request of a member of the Board, in which

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Agenda Packet
Page 1 of 110

event the matter may be removed from the Consent Agenda and considered as a separate item. The public may comment on any of the items prior to the vote being taken by the Board.

6. CONSENT AGENDA

A. APPROVAL OF MEETING MINUTES

Meeting minutes of April 10, 2024.

B. APPROVAL PAYMENT OF INVOICES RECEIVED ON OR BEFORE MAY 1, 2024.

The invoices below have been reviewed by the Finance Subcommittee and are recommended for approval.

No.	Invoice Date	Invoice #	Provider	Amount
1	4/2/2024	1308	REGEN – 30% Engineering – Hybrid Models	\$ 13,300.00
2	4/4/2024	85656	Aleshire & Wynder – Legal Services	\$ 684.00
3	4/16/2024	86112	MNS Engineering – Engineering and Support Svcs.	\$ 1,420.00
4	4/11/2024	00876.004 - 3	GSI – Groundwater Monitoring Wells (Grant Reimbursable)	\$ 11,252.50
5	5/1/2024	20244	Savage – GM Services (Portions Grant Reimbursable)	\$ 4,423.23

The invoices below have been reviewed by the Finance Subcommittee and are not recommended for approval at this time. Instead, the Finance Subcommittee recommends that the invoice be held until the final report from REGEN is received.

No.	Invoice Date	Invoice #	Provider	Amount
1	5/1/2024	1321	REGEN – 30% Engineering – Hybrid Models	\$ 11,250.00

Project	Vendor	To Date (inc. above)	Remaining Authorization
Audit (Pre 2023)	Moss, Levy & Hartzheim, LLP	\$ 2,780.00	\$ 4,995.00
Audit (2023)	Moss, Levy & Hartzheim, LLP	\$ 0.00	\$ 2,900.00
30% Hybrid Design	REGEN, LLC.	\$ 71,856.59	\$ 3,143.41
Groundwater Wells	Various	\$ 97,335.36	\$ 24,109.64

BUSINESS ITEMS:

7. REGEN REPORT ON THE 30% DESIGN FOR A HYBRID COLLECTION SYSTEM

REGEN will provide its final report on the contracted effort to develop a 30% engineering design of a hybrid collection solution. The hybrid approach allows for effluent only collection and/or a mix of effluent only and gravity fed collection technologies to be used. Under any of the approaches, advanced on-site systems may also be considered. A copy of the provided report will be included with the agenda packet, but can also be found on-line at:

<https://www.losolivoscsd.com/files/a7cf8e45f/Los+Olivos+-+Basis+of+Design+Hybrid+Collection+Analysis+Rev+1.0+Final.pdf>

Note that following the discussion with REGEN, some adjustments are expected to be made before the report is finalized.

8. CONSIDERATION OF A CONTRACT WITH COROLLO ENGINEERING, IN THE AMOUNT OF \$40,240, REGARDING PROCESSING OF THE LOADS AND FLOWS OF LOCSD WASTEWATER ON THE CITY OF SOLVANG’S WASTEWATER TREATMENT PLANT AND RELATED INFRASTRUCTURE

Corollo Engineering, the City of Solvang’s selected wastewater treatment plant engineering firm, has provided an estimate to evaluate the impact of processing LOCSD influent (gravity fed, effluent only, or a mix) on the City’s wastewater treatment plant (WWTP). The evaluation laid out in the scope and budget considers impacts of additional loads and flows on the WWTP capacity as well as water quality of the influent. The effort is estimated by Corollo to cost \$40,240. The work is estimated to take four months. Corollo’s expertise and experience focuses on the City of Solvang’s WWTP. Consequently, a separate consultant, with more specific expertise is being recommended to evaluate the rest of the City’s infrastructure.

9. CONSIDERATION OF A CONTRACT WITH WATER SYSTEMS CONSULTING, INC., IN THE AMOUNT OF \$18,787, REGARDING CONNECTING THE LOCSD TO THE CITY OF SOLVANG’S WASTEWATER TREATMENT INFRASTRUCTURE

Water Systems Consulting, Inc. (WSC) is the City of Solvang’s wastewater treatment infrastructure engineering firm. WSC recently performed a full analysis on the City of Solvang’s wastewater treatment infrastructure. The analysis examined existing infrastructure outside of the treatment plant itself and included a detailed look at pipes, lift

stations, and other wastewater infrastructure. The proposed contract would evaluate the impact and related costs for moving LOCSO wastewater (influent) through the existing City of Solvang infrastructure to the actual treatment plant. The Corollo Engineering contract looks at the impacts on the plant itself. The effort is estimated by WSC to cost \$18,787. The work is estimated to take three months.

10. UPDATE AND DISCUSSION ON GROUNDWATER MONITORING WELLS

The LOCSO successfully installed three new groundwater monitoring wells and tested all five wells earlier this year. Discussion continues about need for additional testing and test wells. Since the last Regular meeting of your Board, the Central Coast Regional Water Quality Control Board (CCRWQCB) has recommended additional approaches to testing the District's existing wells. Given the CCRWQCB's recommendations, additional quotes from GSI Water Solutions (GSI) were sought to perform the work. The GSI effort, which includes the previously discussed "split sample" approach to testing the existing five wells is estimated at \$22,150 (see attached estimate). In addition, the CCRWQCB recommends that the District obtain high-quality location data for the existing wells. The data would provide "Northing, Easting, and Elevation" (NEE) information (essentially a latitude, longitude, and elevation) for each well. The NEE data could then be used to determine actual water levels underground. Current approaches only allow for determining the depth of water below ground surface, as measured from the top of a well. The NEE data will allow the level of water between existing wells to be compared. Efforts were made to obtain quotes from several surveying firms. In the end, Gramatici, a surveying firm in Los Olivos was selected. The effort to obtain NEE data for the five wells, and provide it in a format suitable for future use by the District, CCRWQCB, and other jurisdictions is \$1,300 (see attached estimate). Combined, these two efforts essentially exhaust the remaining County of Santa Barbara Environmental Health Services (EHS) grant funding.

Previously, the Board had discussed an interest in doing additional testing north of Highway 154. Staff obtained a separate estimate from GSI to perform this testing. The estimate is \$3,500. Note that GSI has commented on a number of potential issues with the testing, including potential damage to equipment, need to remediate any damage to the well, and general unknowns about the construction and depth of the well.

Information on the District wells and related testing can be found on-line at:

<https://www.losolivoscsd.com/district-drills-three-additional-groundwater-monitoring-wells-6ee4aedd-e69b-4137-afc1-bc072cbcb7d0>

11. FISCAL YEAR 2024-25 BUDGET

The Board will review the Proposed Budget for Fiscal Year 2024-25 (FY 2024-25). The District's FY 2024-25 will run from July 1, 2024 through June 30, 2025. As part of their deliberations, the Board may set the date and time for the FY 2024-25 Budget Hearing. In keeping with the State law, notice of the Hearing must be posted more than two weeks prior to the Hearing being held. Likely dates for the Budget Hearing include June 12, 2024. The FY 2024-25 Proposed Budget can be found at:

<https://www.losolivoscsd.com/fy-2024-25-proposed-budget>

INFORMATIONAL ITEMS:

These items are informational only, no action will be taken, and no public comment will be received.

12. REPORTS

A. SUBCOMMITTEE REPORTS

Finance Subcommittee (President Kennedy Chair)

Grants Subcommittee (President Kennedy Chair)

Project Management Subcommittee (Director Palmer Chair)

Technical Subcommittee (Director Fayram Chair)

B. GENERAL MANAGER AND DISTRICT ENGINEER COMMENTS

The GM and DE will give reports on any meetings that they attended on behalf of the District, report on various District-related activities and/or provide status on projects. The GM may also review Budget Reports. See the packet for more details.

Notable upcoming meeting items:

May – REGEN 30% deliverable final presentation (REGEN in attendance)

May – FY 2024-25 Preliminary Budget

June – FY 2024-25 Budget Hearing, Gann Limit, Tax Assessment Authorization

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Agenda Packet
Page 3 of 110

13. DIRECTORS COMMENTS

Directors will give reports on any meetings that they attended on behalf of the Board and/or choose to comment on various District-related activities. Directors may also request future agenda topics at this time.

14. ADJOURNMENT

Julie Kennedy, President
Lisa Palmer, Vice President
Tom Fayram, Director
Greg Parks, Director
Nina Stormo, Director



**LOS OLIVOS COMMUNITY SERVICES DISTRICT
REGULAR MEETING**

Posted: 4-5-2024

**April 10, 2024, 6PM (PST)
Los Olivos Grange Hall**

2374 Alamo Pintado Ave, Los Olivos CA 93441

Please observe decorum and instructions from the President

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By Phone:

Meeting ID: 861 3515 6557 Passcode: 157483

One tap mobile: +16699006833,,86135156557#,,,,*157483# US (San Jose)

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MEETING AGENDA

1. CALL TO ORDER

President Kennedy calls the meeting to order at 6:03 PM.

2. ROLL CALL

Present: President Kennedy, Vice President Palmer, Director Fayram – thereby establishing a quorum

Absent: Director Parks (attended the meeting starting at 6:05 PM), Director Stormo

3. PLEDGE OF ALLEGIANCE

4. PUBLIC COMMENT

Members of the public may address the Board of Directors on any items of interest within the subject matter and jurisdiction of the Board but not on the agenda today (Gov. Code - 54954.3). The public may also request future agenda topics at this time. Speakers are limited to a maximum of 3 minutes. Due to the requirements of the Ralph M. Brown Act, the Board of Directors cannot take action today on any matter not on the agenda, but a matter raised during Public Comments can be referred to District staff for discussion and possible action at a future meeting.

President Kennedy opens the floor to public comment.

Anna Marie Gott speaks.

INFORMATIONAL ITEM:

Per public request, a brief report from the General Manager that conveys District status and updates is being added at the beginning of the agenda. This status report may touch on key items in the project plan or schedule. The General Manager will leave other detailed reporting, including budgetary reporting until the end of the meeting. This item is informational only, no action will be taken, and no public comment will be received.

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Agenda Packet
Page 6 of 110

5. GENERAL MANAGER’S DISTRICT STATUS REPORT

ADMINISTRATIVE ACTION ITEMS:

All matters listed hereunder constitute an administrative / consent agenda and will be acted upon by a single vote of the Board. Matters listed on the Consent Agenda will be read only on the request of a member of the Board, in which event the matter may be removed from the Consent Agenda and considered as a separate item. Public may comment on any of the items prior to the vote being taken by the Board.

6. CONSENT AGENDA

A. APPROVAL OF MEETING MINUTES

Meeting minutes of March 13, 2024.

B. APPROVAL PAYMENT OF INVOICES RECEIVED ON OR BEFORE APRIL 1, 2024.

The invoices below have been reviewed by the Finance Subcommittee and are recommended for approval.

No.	Invoice Date	Invoice #	Provider	Amount
1	3/4/2024	1301	REGEN – 30% Engineering – Hybrid Models	\$ 22,000.00
2	3/7/2024	84901	Aleshire & Wynder – Legal Services	\$ 1,596.00
3	3/8/2024	876.004-2	GSI – Groundwater Monitoring Wells (Grant Reimbursable)	\$ 12,040.55
4	3/25/2024	85897	MNS Engineering – Engineering and Support Srvcs.	\$ 1,162.50
5	3/31/2024	20243	Savage – General Manager Services (Portions Grant Reimbursable)	\$ 5,199.19
6	4/1/2024	326BDB28-0005	Streamline – Website software	\$ 756.00

Project	Vendor	To Date (inc. above)	Remaining Authorization
Audit (Pre 2023)	Moss, Levy & Hartzheim, LLP	\$ 2,780.00	\$ 4,995.00
Audit (2023)	Moss, Levy & Hartzheim, LLP	\$ 0.00	\$ 2,900.00
30% Hybrid Design	REGEN, LLC.	\$ 47,306.59	\$ 27,693.41
Groundwater Wells	Various	\$ 85,855.57	\$ 35,589.60

President Kennedy opens the floor to public comment.

No requests to speak.

Motion to approve the consent agenda.

Motion by: Vice President Palmer; Second: Director Fayram

Voice vote: 4-0

BUSINESS ITEMS:

7. CONSIDERATION OF AN ENGINEERING ESTIMATE IN THE AMOUNT OF \$40,240 FROM COROLLO ENGINEERING REGARDING CONNECTING THE LOCSD TO THE CITY OF SOLVANG’S WASTEWATER TREATMENT INFRASTRUCTURE

Corollo Engineering, the City of Solvang’s selected wastewater treatment plant engineering firm, has provided an estimate to evaluate the impact of LOCSD flows on the City’s wastewater treatment plant (WWTP). The evaluation laid out in the scope and budget considers impacts of additional flows on the WWTP capacity as well as water quality of the effluent. The effort is estimated by Corollo is \$40,240. The work is estimated to take four months.

GM Savage provides an overview of the item. He notes that the contract will not provide the “final” answer but is a major step towards getting the answer regarding connection to the City of Solvang. The important piece that would still be missing is the modifications to existing infrastructure from Sunny Fields Park to the WWTP. He adds that he asked Corollo for an estimate to do that work. GM Savage describes how the proposed contract will investigate the flows (amount of liquids and solids going to the Solvang WWTP) and the loads (concentrations of particulates in the flows). He adds that the City is already investigating particulates in the existing WWTP based on direction from the CCRWQCB and new regulations.

President Kennedy opens the floor to public comment.

Karen Steinwachs, Tom Nelson, Mary Hayden, and Anna Marie Gott speak.

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Vice President Palmer asks about any difference between gravity fed system flows versus effluent based system flows. GM Savage responds that the two flow amounts should be similar, since the liquids will still be sent to the WWTP, just fewer solids. He adds much of what is already being examined has to do with the source water from ID#1, which is the same water purveyor for both the LOCSD and City. Director Fayram comments that this is an important step to determining viability of a local system. Director Parks confirms that the contract will address both the “loads” and “flows” that LOCSD would send to the City of Solvang.

Direction to staff is to bring back a contract at next month’s meeting that covers both the loads/flows side of the equation as well as covering upgrades to the infrastructure from Sunny Fields Park to the WWTP.

8. GENERAL MANAGER’S ANNUAL RETROSPECTIVE

The General Manager will present his view of the past year and make recommendations for the Board’s discussion and consideration. This item would normally be held until later in the meeting, but as it could impact the strategic and fiscal year budget planning, is being held first.

GM Savage provides his view of the past year, on this his second anniversary with the District. He notes that he decided to do it prior to the Strategic and Budget Planning effort since the two are tied together and he thought his comments might provide additional insight into the Planning efforts. (Note: the slides used by GM Savage have been added to the District’s website on the page for this meeting.)

President Kennedy opens the floor to public comment.

Anna Marie Gott attempts to speak, her Internet connection fails and the call drops.

Director Fayram comments that he likes the thought of additional public outreach. He also notes he would make himself available for community interactions such as coffee at “Lefty’s Coffee House.” Director Parks notes that more social media outreach is likely important moving forward. He comments that the District should be able to get current physical addresses for all property owners based on property tax rolls. GM Savage responds that he concurs regarding the addresses and that in the past physical mail has been sent to all of those addresses, plus all of the PO Boxes in Los Olivos. Vice President Palmer likes the coffee idea. She comments that the absentee property owners will be voting so outreach needs to happen to them specifically. She adds that she concurs with the need for focus. She comments that in her case, she is focused on: what is it going to cost and when is it going to happen.

President Kennedy reopens the floor to public comment.

Anna Marie Gott speaks.

9. STRATEGIC AND FISCAL YEAR 2024-25 BUDGET PLANNING

The Board will discuss the upcoming fiscal year (July 1, 2024 through June 30, 2025) from a strategic goals and budgetary perspective.

GM Savage introduces the item, setting the table for Board discussion on upcoming activities priorities and the budget.

President Kennedy opens the floor to public comment.

No requests to speak are received.

Director Fayram asks GM Savage about parallels with what happened in the community of Los Osos in San Luis Obispo County and the District’s situation. GM Savage responds that the County of San Luis Obispo took over the Los Osos project after the Los Osos CSD essentially failed, with close to \$10 million debt on the books. Vice President Palmer asks about how to align the effluent sewer with gravity sewer information. GM Savage suggests that the Project Management committee could spend more time building a clearer set of steps (activities that are serial in nature versus concurrently/independent) to getting to a successful property owner vote. Director Parks comments on the \$40,000 that may be spent for Corollo’s efforts related to the City of Solvang connection. He recognizes the magnitude of this expenditure on the District’s budget. VP Palmer comments on grant funding that might be available for planning efforts such as the connectivity to the City. President Kennedy adds that she has done additional research on planning grants and our eligibility for them as the District does not “check a lot of the boxes” that make an organization highly competitive. She adds that there may be other ways to obtain funding.

Director Fayram comments on his recent interactions with Assemblymember Hart and his willingness to engage the Assemblymember's staff on funding opportunities. Vice President Palmer says that both Supervisor Hartmann and Senator Lemon need to be kept apprised of our activities. President Kennedy notes that she plans to go to "legislative days" in Sacramento that are coming up in May. She adds that she thinks an additional 4-6 hours of the GM's time to support outreach is in order.

10. CONSIDERATION OF RESOLUTION 24-03 - DONATIONS

The Board will consider adoption of draft Resolution 24-03 which delegates authority to the General Manager to accept or reject donations in amounts up to and including \$1,000.00 (one thousand dollars). The Resolution was reviewed by the Financed Subcommittee and is recommended for approval.

GM Savage provides an overview of the item. As part of his overview he notes that he put the Resolution together at the direction of the Finance Subcommittee, who has reviewed the Resolution and is recommending it for approval.

President Kennedy opens the floor to public comment.

Anna Marie Gott and Tom Nelson speak.

Director Fayram speaks in favor of the Donation Resolution. Director Parks echoes his support.

Motion to approve Resolution 24-03 - Donations.

Motion by: Director Fayram; Second: Director Parks

Roll call vote: 4-0 (Director Stormo not in attendance)

11. UPDATE AND DISCUSSION ON GROUNDWATER MONITORING WELLS

The LOCSO successfully installed three new groundwater monitoring wells and tested all five wells earlier this year. Discussion continues about need for additional testing and test wells. Staff and Director Fayram are scheduled to meet with the Central Coast Regional Water Quality Control Board (CCRWQCB) and County of Santa Barbara Environmental Health Services (EHS) on April 8 to discuss wells (after posting of this agenda). Attendees will summarize the meeting and its outcomes.

Information on the District wells and related testing can be found on-line at:

<https://www.losolivoscsd.com/district-drills-three-additional-groundwater-monitoring-wells-6ee4aed-d-e69b-4137-afc1-bc072cbcb7d0>

Director Fayram and GM Savage highlight the information exchanged with the Central Coast Regional Water Quality Control Board (CCRWQCB) and County of Santa Barbara Environmental Health Services (EHS) at the April 8 meeting. GM Savage notes that the "action" level for nitrates in local groundwater is 1. He adds that even the lowest levels of nitrates in the District are nearly 3 times that level, and the highest levels are 11 times the action level and over MCL. GM Savage also notes that neither regulator would recommend an additional well at this time. Instead, they would like to see a heightened focus on testing. GM Savage asked County EHS about funding support for the testing, and they responded that a new contract would be required.

Regarding technical solution, GM Savage notes that the regulators mentioned that they will favor any community solution that will be successful in a property owner vote. Additional commentary made it pretty clear that they may have a preference for a regional solution such as connecting to the City of Solvang. GM Savage adds that at their recent strategic planning, City of Solvang City Council made "becoming a regional wastewater treatment plant" number four on their priority list.

Director Fayram comments on other commentary made by regulators such as "how to you ensure connections" by property owners, ownership of systems and system components.

President Kennedy opens the floor to public comment.

Tom Nelson, Karen Steinwachs, Paul Rohrer, and Anna Marie Gott speak.

Vice President Palmer comments that she would like to see us do something on the other side of Hwy 154.

Director Parks comments on nitrates and asks questions about how nitrates flow. Director Fayram comments on what happens today, should your existing septic tank fail. A discussion ensues about whether there might be a responsible party that is creating high nitrate levels and that is outside of the District that could help from a

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financial solution perspective.

INFORMATIONAL ITEMS:

These items are informational only, no action will be taken, and no public comment will be received.

12. REPORTS

A. SUBCOMMITTEE REPORTS

Finance Subcommittee (President Kennedy Chair) – met, results are in the report and agenda this evening

Grants Subcommittee (President Kennedy Chair) – met once, is working on a grant plan; there is additional focus on planning grants that the District might be able to look at

Project Management Subcommittee (Director Palmer Chair) – did not meet

Technical Subcommittee (Director Fayram Chair) – met and will be meeting again prior to the next meeting to discuss Regen’s final report

B. GENERAL MANAGER AND DISTRICT ENGINEER COMMENTS

The GM and DE will give reports on any meetings that they attended on behalf of the District, report on various District-related activities and/or provide status on projects. The GM may also review Budget Reports. See the packet for more details.

Notable upcoming meeting items:

May – REGEN 30% deliverable final presentation (REGEN in attendance)

May – FY 2024-25 Preliminary Budget

June – FY 2024-25 Budget Hearing, Gann Limit, Tax Assessment Authorization

DE Pike shares some comments about groundwater monitoring program.

GM Savage starts his comments by showing the Board and the public the AWWPA award. He suggests that District Engineer Pike take it to his office for display. He then walks through the items attached to the agenda. He adds that he has also spoken a couple of times to Corollo, the City of Solvang, as well as ID#1.

13. DIRECTORS COMMENTS

Directors will give reports on any meetings that they attended on behalf of the Board and/or choose to comment on various District-related activities. Directors may also request future agenda topics at this time.

President Kennedy – none

Vice President Palmer – none

Director Fayram – none

Director Parks – none

14. ADJOURNMENT

Motion to adjourn at 8:04 PM.

Motion by: Director Fayram; Second: Vice President Palmer

Voice vote: 4-0

Respectfully submitted:



Guy W. Savage

General Manager – Los Olivos Community Services District

Approved:

President Julie Kennedy

ITEM 6B – INVOICES

INVOICES



213 S. 11th St.
Boise, ID 83702
P 208.794.8558

Invoice

Invoice #: 1308
Invoice Date: 4/2/2024
Due Date: 4/2/2024
Project: 22031 Los Olivos Co...
P.O. Number:

Bill To:
 22031 Los Olivos Community Service Distri
 ct

Description	Hours/Qty	Rate	Prev. Invoiced	Amount
Engineering		6,500.00		6,500.00
Drafting		3,600.00		3,600.00
Hydraulic Analysis		3,200.00		3,200.00
Total				\$13,300.00
Payments/Credits				\$0.00
Balance Due				\$13,300.00
Job Total Balance				\$35,300.00



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Federal Tax ID: 55-0814676

**LOS OLIVOS COMMUNITY SERVICES DISTRICT (01245)
MONTHLY BILLING SUMMARY**

Billing Period: March 2024

Matter Description	Total Hours	Total Fees	Total Costs	Total Other Charges	Total Billed	Comments
0001 General	3.00	684.00	0.00	0.00	684.00	
TOTALS:	3.00	684.00	0.00	0.00	684.00	



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 Irvine, CA 92614
 Phone: (949) 223-1170
 Fax: (949) 223-1180
 Federal Tax ID: 55-0814676

Los Olivos Community Services District
 General Manager
 PO Box 345
 Los Olivos, CA 93441

April 4, 2024
 Bill No. 85656

For Legal Services Rendered Through 3/31/24

CLIENT: 01245 - Los Olivos Community Services District
 MATTER: 0001 - General

PROFESSIONAL SERVICES

Date	Attorney	Description	Hours	Amount
03/05/24	SON	REVIEW FINANCE SUBCOMMITTEE PACKET	0.10	22.80
03/07/24	SON	REVIEW AGENDA; CORRESPONDENCE RE SAME; REVIEW QUARTERLY UPDATE; SETBACK REGULATIONS	0.40	91.20
03/11/24	SON	TELEPHONE CONFERENCE WITH GUY RE ACCOMMODATION REQUEST; REVIEW FINAL AGENDA; CORRESPONDENCE RE AGENDA ITEM 7	0.40	91.20
03/12/24	SON	CORRESPONDENCE RE TESTING AND REG BOARD REQUIREMENTS	0.20	45.60
03/13/24	SON	PREPARE AND ATTEND BOARD MEETING	1.70	387.60
03/26/24	SON	CORRESPONDENCE RE MONTENARO PROPERTY; SOCIAL MEDIA RULING NOTICE	0.20	45.60
Total Professional Services			3.00	\$684.00

PROFESSIONAL SERVICES SUMMARY

Code	Name	Hours	Rate	Amount
SON	Steven O'Neill	3.00	228.00	684.00
Total Professional Services		3.00		\$684.00

CURRENT BILL TOTAL AMOUNT DUE

\$684.00

Balance Forward:

5,669.20

Receipts Since Last Bill

Date	Description	Total Applied
03/29/24	Wire Transfer Payment - Thank you	-4,073.20
	Less Total Payments	<u>-4,073.20</u>
Payments & Adjustments:		-4,073.20
Total Due:		<u>\$2,280.00</u>

Please return this page with remittance

to
Aleshire & Wynder LLP

Bill Number: 85656
Bill Date: April 4, 2024
Client Code: 01245
Client Name: Los Olivos Community Services District
Matter Code: 0001
Matter Name: General

Total Professional Services:	684.00
Total Disbursements:	0.00
CURRENT BILL TOTAL AMOUNT DUE	<u>\$684.00</u>
Balance Forward:	5,669.20
Payments & Adjustments:	-4,073.20
Total Due:	<u>\$2,280.00</u>

Amount enclosed: _____

Thank You



650 NE Holladay St., Suite 900
 Portland, OR 97232
 P: 503.239.8799
 accounting@gsiws.com
 www.gsiws.com

Guy Savage
 Los Olivos Community Services District
 PO Box 345
 Los Olivos, CA 93441

April 11, 2024
 Invoice No: 00876.004 - 3

Project 00876.004 Construction of Three New Monitoring Wells

Professional Services from March 01, 2024 to March 31, 2024

Task .001 Installation of Three Monitoring Wells

Labor

	Hours	Rate	Amount	
Principal Consultant				
Thompson, Timothy	19.00	305.00	5,795.00	
Managing Hydrogeologist				
Lapostol, Andres	18.75	175.00	3,281.25	
Staff Hydrogeologist				
Fortunelli, Nehuen	13.25	155.00	2,053.75	
GIS/Graphics/Database				
Ramos, Isabella	.50	130.00	65.00	
Administration				
Steensma, Nancy	.50	115.00	57.50	
Totals	52.00		11,252.50	
Total Labor				11,252.50
				Total this Task
				\$11,252.50

Project Summary	Current Period	Prior Periods	Invoiced to Date
Total Billings	11,252.50	25,307.36	36,559.86
Authorized Budget			36,700.00
Budget Remaining			140.14
			Total this Invoice
			<u><u>\$11,252.50</u></u>

Outstanding Invoices

Number	Date	Balance
2	3/8/2024	12,040.55
Total		12,040.55



201 N. Calle Cesar Chavez | Suite 300
Santa Barbara, CA 93103

Main: 805 692 6921

WWW.MNSENGINEERS.COM

- > CIVIL ENGINEERING
- > CONSTRUCTION MANAGEMENT
- > LAND SURVEYING

April 16, 2024

Project No: LOCD.180392.00

Invoice No: 86112

Los Olivos Community Services District

P.O. Box 553

Los Olivos, CA 93441

Principal Jeffrey Edwards
 Project Manager Douglas Pike
 Project LOCD.180392.00 District Support Services

This Invoice includes:

1. General District Support Tasks: \$1,235.00
2. Engineering Tasks:
 - a. General Support Tasks: Attend Meeting \$185.00

Professional Services for the Period: March 01, 2024 to March 31, 2024

Level 2 TASK01 District Management

Professional Personnel

	Hours	Rate	Amount	
Project Coordinator	10.00	105.00	1,050.00	
District Engineer	1.00	185.00	185.00	
Totals	11.00		1,235.00	
Total Labor				1,235.00
				Level 2 Subtotal
				\$1,235.00

Level 2 TASK02 Engineering Tasks

Professional Personnel

	Hours	Rate	Amount	
District Engineer	1.00	185.00	185.00	
Totals	1.00		185.00	
Total Labor				185.00
				Level 2 Subtotal
				\$185.00

Project	LOCSD.180392.00	District Support Services	Invoice	86112
			Current Invoice Amount	\$1,420.00

Outstanding Invoices

Number	Date	Balance
85897	3/25/2024	1,162.50
Total		1,162.50

Billing Backup

Tuesday, April 16, 2024

MNS Engineers, Inc.

Invoice 86112 Dated 4/16/2024

9:34:39 AM

Project	LOCS.D.180392.00	District Support Services		
Level 2	TASK01	District Management		

Professional Personnel

	Hours	Rate	Amount	
Project Coordinator				
Zepeda, Mary	3/4/2024	.25	105.00	26.25
Follow-up with GS re current Invoice Processing				
Zepeda, Mary	3/6/2024	2.75	105.00	288.75
Prepare A&W, County of Santa Barbara, MNS, and GWS Invoices for payment via FIN; Create and Process Single Payment Claims for &W, County of Santa Barbara, MNS, and GWS Invoices for DP; Update Budget Tracking Log				
Zepeda, Mary	3/7/2024	1.00	105.00	105.00
File and Upload MNS and A&W Invoice; Update Budget Tracking Log				
Zepeda, Mary	3/13/2024	.25	105.00	26.25
Follow-up with GS and RB re Payment of Santa Barbara County Invoice N55777				
Zepeda, Mary	3/15/2024	2.75	105.00	288.75
Prepare A&W, BC2 (2), GSI, GWS, and MNS Invoices for payment via FIN; Update Budget Tracking Log				
Zepeda, Mary	3/25/2024	3.00	105.00	315.00
Update A&W, BC2 (2), GSI, GWS, and MNS Invoices for payment via FIN; Create and Process Single Payment Claims for &W, BC2 (2), GSI, GWS, and MNS Invoices for DP; Update Budget Tracking Log				
Show Overtime				
District Engineer				
Pike, Douglas	3/22/2024	.50	185.00	92.50
Meeting with County IT regarding FIN access, they remote accessed-in and assisted in initiating the access process in the new VPN remote access process.				
Pike, Douglas	3/25/2024	.50	185.00	92.50
Support FIN System new software update for payment of invoices.				
Totals		11.00		1,235.00
Total Labor				1,235.00
			Level 2 Subtotal	\$1,235.00

Level 2	TASK02	Engineering Tasks		
---------	--------	-------------------	--	--

Professional Personnel

	Hours	Rate	Amount	
District Engineer				
Pike, Douglas	3/22/2024	1.00	185.00	185.00
Attend Technical Subcommittee Meeting				
Totals		1.00		185.00
Total Labor				185.00
			Level 2 Subtotal	\$185.00

Project	LOCSD.180392.00	District Support Services	Invoice	86112
---------	-----------------	---------------------------	---------	-------

Project Total **\$1,420.00**

Total this Report **\$1,420.00**

INVOICE

FROM:

Guy W. Savage
PO Box 894
Los Olivos, Ca 93441

BILL TO:

Via electronic delivery
President Julie Kennedy
Los Olivos Community Services District
PO Box 345
Los Olivos, Ca 93441

Invoice #: 20244
Invoice Date: 5/1/2024

Dear President Kennedy,

Please see the below for professional services provided, plus any expenditures made on behalf of the District. The attached tally of hours (units) exceeds those being billed below. This is being done to track the hours for future reference. Per agreement, the hours will be capped at thirty or as authorized by the District.

Date	Description	Units	Rate	Amount
5/1/2024	General Manager Services - LOCSD (4/1/24-4/30/24) See Attached for Details	28.75	\$ 138.65	\$ 3,986.04
5/1/2024	Grant Reimbursable - General Manager Services - Groundwater Monitoring Wells (4/1/24-4/30/24) See Attached for Details	2	\$ 138.65	\$ 277.29
4/18/2024	Zoom - annual subscription	1	\$ 159.90	\$ 159.90
Total				\$ 4,423.23

Thank you for your continued support.



Email: GM.LOCSD@gmail.com

Invoice



Zoom Video Communications Inc.
55 Almaden Blvd, 6th Floor
San Jose, CA 95113

Invoice Date: Apr 18, 2024
Invoice #: INV253132457
Payment Terms: Due Upon Receipt
Due Date: Apr 18, 2024
Account Number: 5034586594
Currency: USD
Payment Method: MasterCard *****0584
Account Information: Guy Savage

Federal Employer ID Number: 61-1648780

Purchase Order Number:

Tax Exempt Certificate ID:

[Zoom W-9](#)

Sold To Address: PO Box 894, 2833 Grand Avenue
Los Olivos, California 93441
United States

gm.locsd@gmail.com

Bill To Address: PO Box 894, 2833 Grand Avenue
Los Olivos, California 93441
United States

gm.locsd@gmail.com

Charge Details

Charge Description	Subscription Period	Subtotal	Taxes, Fees & Surcharges	Total
Charge Name: Zoom One Pro Annual Quantity: 1 Unit Price: \$159.90	Apr 18, 2024 - Apr 17, 2025	\$159.90	\$0.00	\$159.90
			Subtotal	\$159.90
			Total (Including Taxes, Fees & Surcharges)	\$159.90
			Invoice Balance	\$0.00

Taxes, Fees & Surcharge Details

Charge Name	Tax, Fee or Surcharge Name	Jurisdiction	Charge Amount	Tax, Fee or Surcharge Amount
Total of Taxes, Fees & Surcharges				\$0.00

Transactions

Invoice Total	\$159.90
---------------	----------

Transaction Date	Transaction Number	Transaction Type	Description	Applied Amount
Apr 18, 2024	P-296030853	Payment		\$-159.90
Invoice Balance				\$0.00

Need help understanding your invoice?

[Click here](#)

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This plan includes products with monthly and/or yearly subscription periods. The subscription period for each plan, and the total charge, \$159.90 (plus applicable taxes and regulatory fees), per subscription period for that product are set out above in the Charge Details section. Unless you cancel, your subscription(s) will auto-renew each subscription period and each subscription period thereafter, at the price(s) listed above (plus any taxes and regulatory fees applicable at the time of renewal) and your payment method on file at zoom.us/billing will be charged. You can cancel auto-renewal anytime, but you must cancel by the last day of your current subscription period to avoid being charged for the next subscription period. You will not be able to cancel your "base plan" (Zoom Meetings, Zoom Phone, or Zoom Rooms) without first canceling all other subscriptions in your plan. If you cancel, you will not receive a refund for the remainder of your then-current subscription period. You can cancel by navigating to zoom.us/billing and clicking "Cancel Subscription," clicking through the prompts, and then clicking to confirm cancellation. Should Zoom change its pricing, it will provide you with notice, and you may be charged the new price for subsequent subscription.

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213 S. 11th St.
 Boise, ID 83702
 P 208.794.8558

Invoice

Invoice #: 1321
Invoice Date: 5/1/2024
Due Date: 5/1/2024
Project: 22031 Los Olivos Co...
P.O. Number:

Bill To:
 22031 Los Olivos Community Service Distri
 ct

Description	Hours/Qty	Rate	Prev. Invoiced	Amount
90% Contract completion		11,250.00		11,250.00
Total				\$11,250.00
Payments/Credits				\$0.00
Balance Due				\$11,250.00
Job Total Balance				\$24,550.00

**ITEM 7 – REGEN 30% DESIGN, ENGINEERING COSTING –
HYBRID COLLECTION SOLUTION**

REGEN 30% DESIGN, ENGINEERING COSTING – HYBRID COLLECTION SOLUTION



Basis of Design Report

LOS OLIVOS WASTEWATER HYBRID COLLECTION ANALYSIS

Prepared for:
Los Olivos Community Service District

Prepared by:
Regen AEC, PLLC
220 N 10th St
Boise, Id 83702
(541) 580-2980

May 7, 2024
Rev 1.0

TABLE OF CONTENTS

TABLE OF CONTENTS2

EXECUTIVE SUMMARY4

INTRODUCTION3

STUDY AREA CHARACTERISTICS3

PREVIOUS STUDIES6

BASIS OF PLANNING7

DISTRICT RECOMMENDED ZONE AREA BOUNDARIES7

PROPOSED ZONE COLLECTIONS SYSTEM ALTERNATIVES7

PROPOSED TREATMENT PLANT LOCATIONS8

COLLECTION SYSTEM8

GRAVITY COLLECTION8

DESIGN CRITERIA 8

LATERAL CONNECTION REQUIREMENTS 9

RIGHT-OF-WAY REQUIREMENTS 9

SEWAGE LIFT STATION 10

EFFLUENT SEWER COLLECTION11

DESIGN CRITERIA 11

ON LOT PROCESSING TANK 11

LATERAL CONNECTION REQUIREMENTS 12

RIGHT-OF-WAY REQUIREMENTS 12

WATER LATERAL SEPARATION REQUIREMENTS 13

WASTEWATER TREATMENT FACILITY SITING13

ADVANCED ONSITE SYSTEMS.....13

WASTEWATER COLLECTION SYSTEM OPTIONAL LAYOUTS14

WASTEWATER FLOW AND COMPOSITION ANALYSIS18

ZONE POPULATIONS18

ALTERNATIVE COLLECTION SYSTEM TYPICAL LOADING RATES18

GRAVITY WASTEWATER HYDRAULIC AND CONSTITUENTS ESTIMATES	19
EFFLUENT SEWER WASTEWATER HYDRAULIC AND CONSTITUENT ESTIMATES	19
OPTIONS WASTEWATER HYDRAULIC LOAD ESTIMATES.....	20
OPTIONS WASTEWATER CONSTITUENT LOAD ESTIMATES	20
WASTEWATER FLOW AND COMPOSITION SUMMARY.....	20
<u>SUMMARY.....</u>	<u>21</u>

PRELIMINARY COST SUMMARY	21
---------------------------------------	-----------

FIGURES

Figure 1 – Vicinity Map	4
Figure 2 – Community Service District Area Boundary	5
Figure 3 – Service District Zoning Map.....	7
Figure 4 - Typical gravity sewer service lateral	9
Figure 5 - Profile of gravity sewer	10
Figure 6 - Typical STEP system components. courtesy of Orenco Systems Inc.	12
Figure 7 – Proposed Hybrid Sewer Collection System Alternative A	14
Figure 8 – Proposed Hybrid Sewer Collection System Alternative B	15
Figure 9 – Proposed Hybrid Sewer Collection System Alternative C	16
Figure 10 – Proposed Hybrid Sewer Collection System Alternative D	17

TABLES

Table 1 – Wastewater Flow	4
Table 2 – Wastewater Constituents	4
Table 3 – Capital Costs.....	2
Table 4 – Gravity Sewer Main Slopes and Design Depths	9
Table 5 - Installed Unit Costs: Gravity Sewer Pipe USD/Linear Ft (PVC). ²	10
Table 6 – Zone Populations	18
Table 7 – Alternative Collection System Typical Loading Rates	18
Table 8 – Estimated Typical Flow Rates.....	19
Table 9 – Gravity Collection Hydraulic Estimates.....	19
Table 10 – Gravity Collection Wastewater Constituent Estimates	19
Table 11 – Effluent Sewer Hydraulic Estimates	19
Table 12 – Effluent Sewer Collection Wastewater Constituent Estimates	20
Table 13 – Option Hydraulic Estimates	20
Table 14 - Option Biological and Solids Loading Estimates	20
Table 15 – Cost Estimates Breakdown.....	21
Table 16 – Cost Estimate Totals.....	21

APPENDIX A	23
APPENDIX B.....	24

EXECUTIVE SUMMARY

The purpose of this Basis of Design (BOD) is to compare alternative hybrid collection systems configuration and make an initial recommendation on the best approach for the unincorporated community of Los Olivos. This BOD has been conducted by Regen AEC (Regen) for the Los Olivos Community Service District (LOCS D) and the Los Olivos Wastewater Reclamation Program Project (LOWRPP). The City of Los Olivos has been analyzing solutions for the wastewater concerns for close over 15-years, during which time construction costs are estimated to have increased by roughly 85% based on the Construction Cost Index¹. With the current costs of inflation and the availability of funding the timing for a solution is critical, lest another 15 years of costs drive the price of alternatives even higher.

Within this analysis the community was divided into 6 zones based on guidance from the Board of Directors (BOD) of the Los Olivos Community Service District. The zones were utilized to evaluate three alternatives, including gravity sewer wastewater collection, effluent sewer wastewater collection, and advanced onsite individual on lot treatment and dispersal systems. Four options (A, B, C, & D) were analyzed utilizing these three alternative systems; Option A included a gravity sewer for the collection of wastewater within zones 1 & 2 (commercial area) and effluent sewer throughout zones 3, 4, 5, & 6; Option B included a effluent sewer throughout all zones; Option C included a gravity sewer for the collection of wastewater within zones 1 & 2 (commercial area), effluent sewer throughout zones 3, 4, & 5, and advanced onsite on lot systems throughout zone 6; Option D included a effluent sewer throughout zones 1, 2, 3, 4, & 5, and advanced onsite on lot systems throughout zone 6. The analysis included an evaluation of capital costs and wastewater constituents associated with all zones and options. A summary of the results is provided below:

Table 1 – Wastewater Flow

Option	Avg Day (gpd)	Max Month (gpd)	Max Day (gpd)	Peak Hour (gpm)
A	96,181	110,608	134,653	215
B	96,181	110,608	134,653	134
C	81,381	93,588	113,933	194
D	81,381	93,588	113,933	113

Table 2 – Wastewater Constituents

Option	Avg BOD (mg/L)	Avg TSS (mg/L)	Avg TKN (mg/L)
A	180	143	53
B	150	40	65
C	186	162	51
D	150	40	65

¹ <https://www.mortenson.com/cost-index>

Table 3 – Capital Costs

Option	Collection System Subtotal	Advanced Onsite Subtotal
	(\$US)	(\$US)
A	\$25,503,016	\$0
B	\$21,637,492	\$0
C	\$23,064,728	\$6,734,00
D	\$18,669,808	\$6,734,00

Based on this analysis the economic benefits of an effluent sewer wastewater collection system option appear to make it the most viable solution at this moment. In addition to the economic benefits of the collection system there are additional benefits to the price, size, and complexity of the centralized treatment and reuse facility with use of an effluent sewer.

INTRODUCTION

This Basis of Design (BOD) report had been developed to provide the Los Olivos Community Service District (CSD or District) with a foundational design basis for the development of a hybrid wastewater collection system design. Regen has been contracted to assist the Los Olivos Community Services District with the design of a hybrid wastewater collection system.

STUDY AREA CHARACTERISTICS

The Los Olivos area is located within Santa Barbara County off California highway 154. The proposed wastewater collection area consists of 396 parcels and roughly 840 residents. Per adopted Resolution 2019-04, the Los Olivos Wastewater Reclamation Program Project (LOWRPP) was initiated to help identify strategies to provide viable wastewater collection and treatment for the residents and business owners within the District.

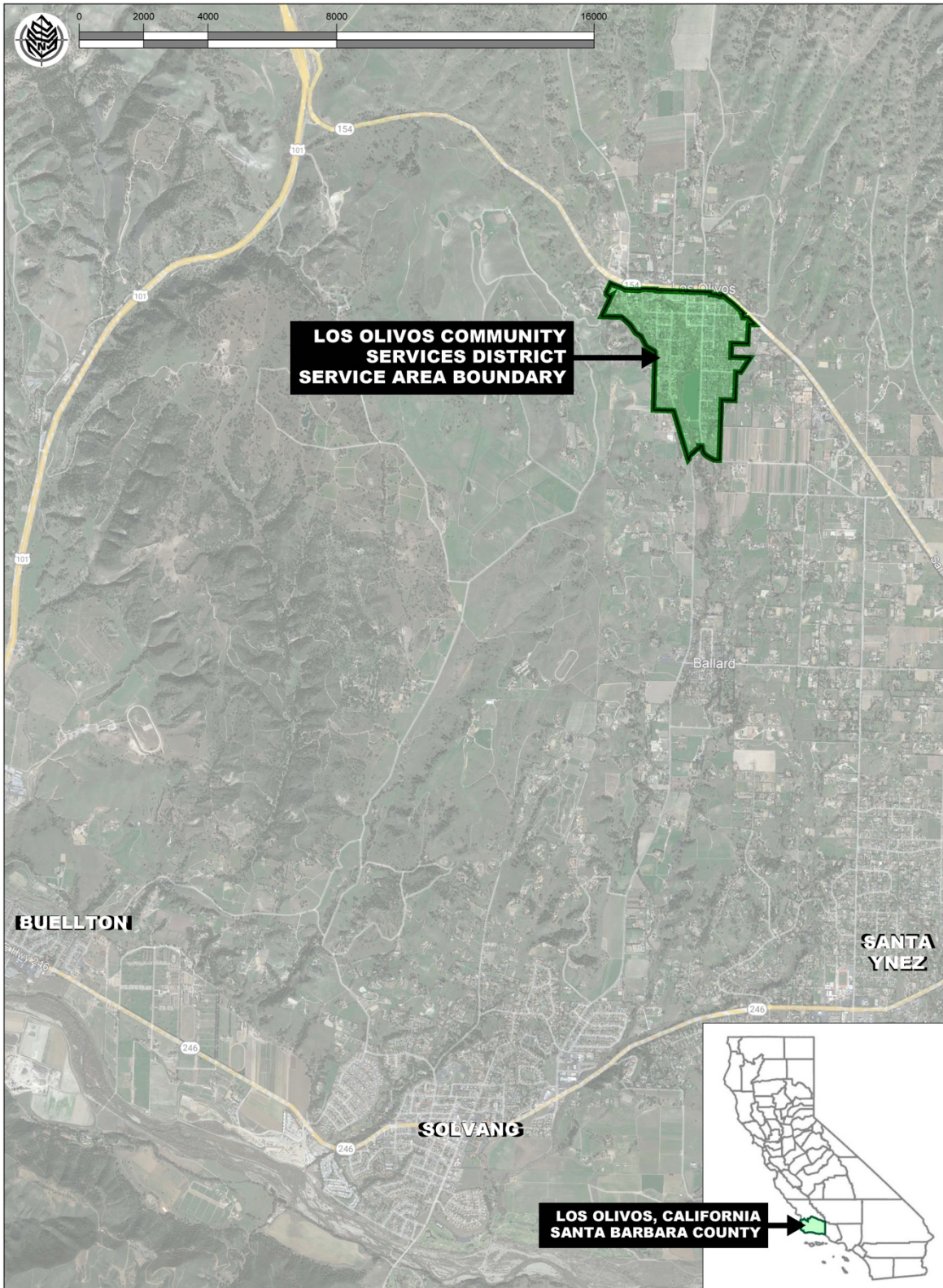


Figure 1 – Vicinity Map

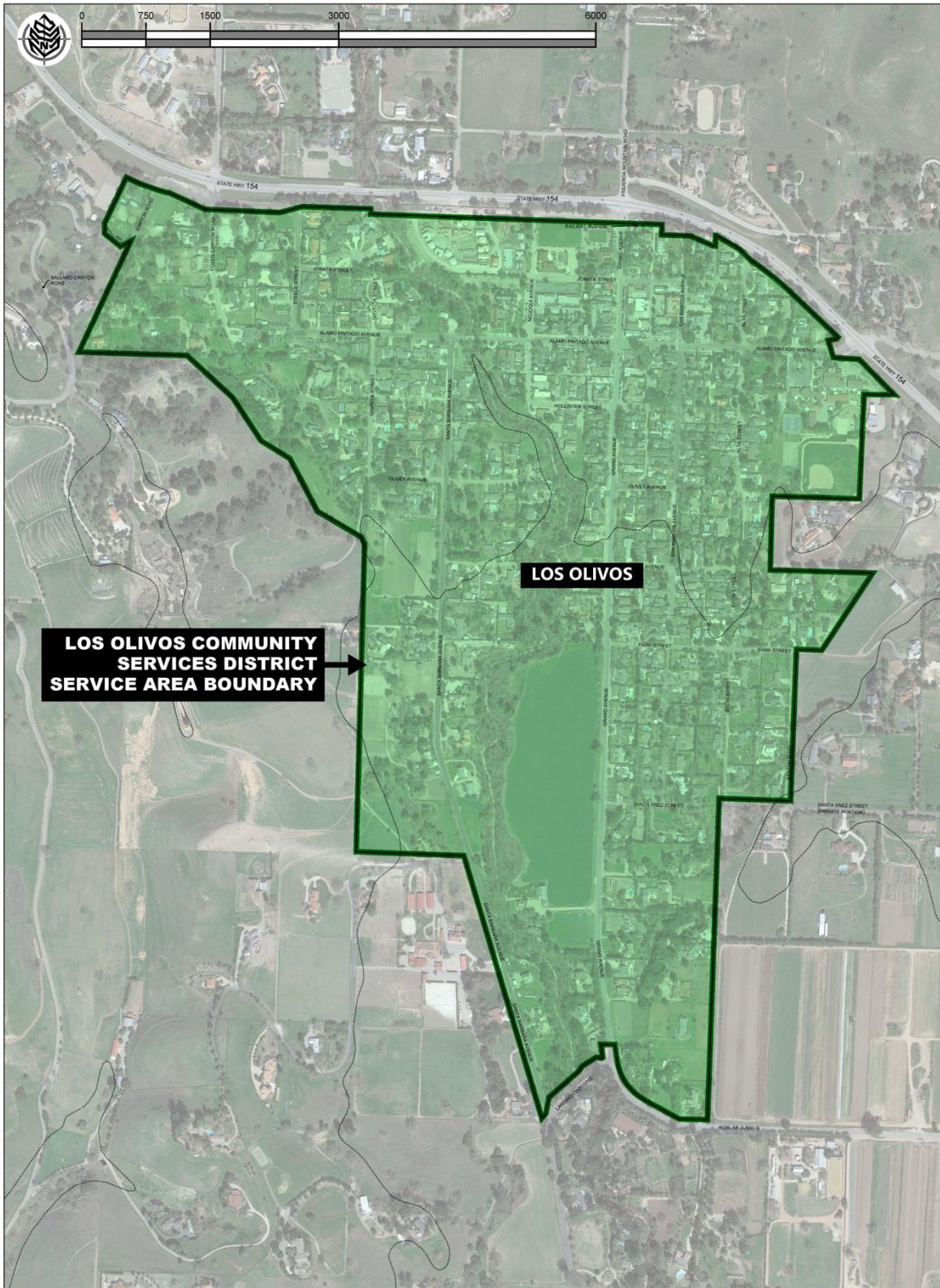


Figure 2 – Community Service District Area Boundary

PREVIOUS STUDIES

The community of Los Olivos has had several studies conducted over the past two decades to evaluate wastewater alternatives to address groundwater quality concerns. Key previous studies include:

1. Santa Ynez Valley Community Plan Environmental Impact Report (EIR 2009)
2. Los Olivos Wastewater Management Plan (LOWWMP 2010)
3. Los Olivos Wastewater System Preliminary Engineering Report (AECOM 2013)
4. Los Olivos Special Problems Area Sewer Calculations (Stantec 2015)
5. Final Draft Plan for Services and Feasibility Study (Berkson 2016)
6. Update to Los Olivos Wastewater System Preliminary Engineering Report (AECOM 2016)
7. Desktop Study- Proposed Wastewater Treatment Plant Siting Study (UPC 2021)
8. Septic to Sewer Task Order No. 1
9. Wastewater Collection and Treatment Basis of Design Report (Stantec 2022)

BASIS OF PLANNING

District Recommended Zone Area Boundaries

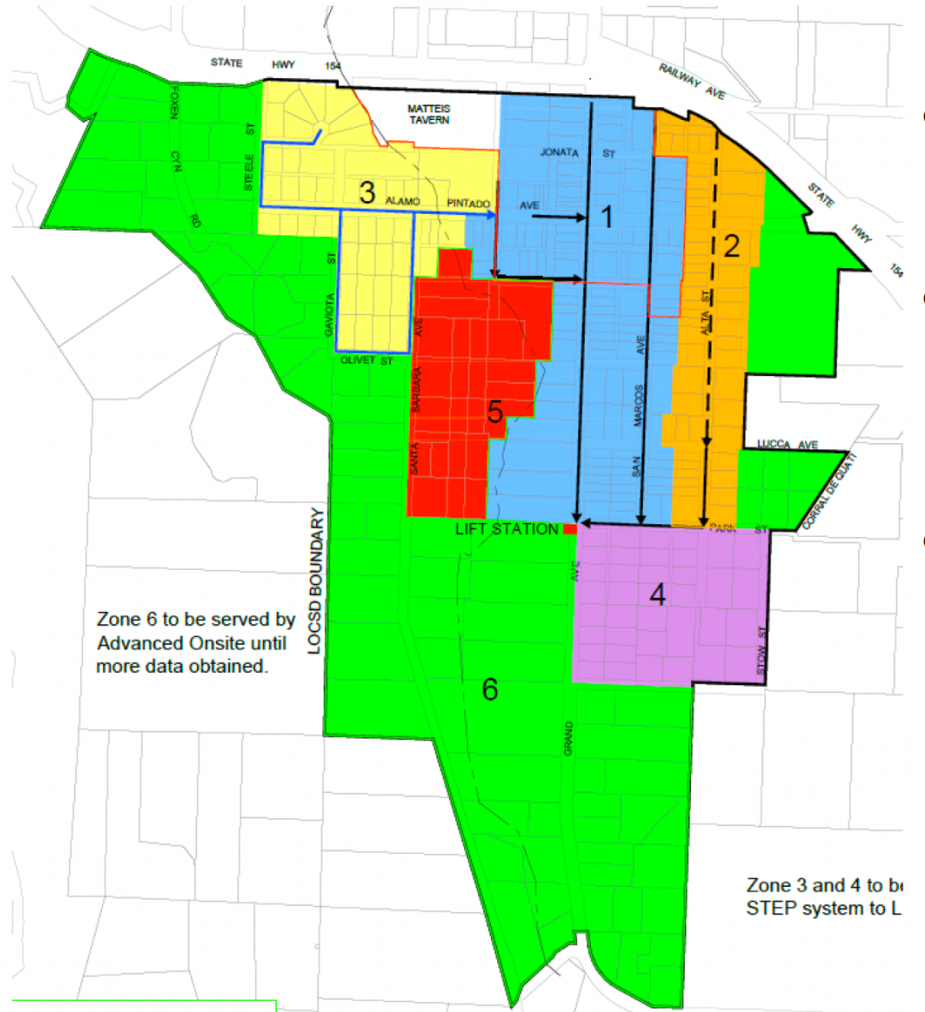


Figure 3 – Service District Zoning Map

Proposed Zone Collections System Alternatives

Collection system alternatives traditionally evaluated for residential development include gravity centralized lift stations, effluent collection systems (also known as step or liquid only sewers), and grinder systems.

Gravity sewers utilize large diameter lines, which gravity flow to a centralized location for further conveyance to a wastewater treatment facility. In Effluent Sewer system, the effluent (primary treated liquid) is typically pumped from the septic tank under low to medium pressure to a small-diameter, pressurized collector sewer. In the individual grinder lift stations, household sewage is collected in a small basin where the solids are macerated and then conveyed into transport lines with the grinder pumps. Residential step and grinder systems consist of an electrical panel, tank or basin, pump vault containing a single pump and level control.

Proposed Treatment Plant Locations

The wastewater treatment works are outside of the scope of Regen’s collection system design work.

Treatment plant capacities are based on estimated flows from all residential and commercial properties. Estimated residential flows of 200 gpd average have been assumed, commercial property flows have been estimated based on water records and potential growth.

Hydraulic analysis will be based on the approved configuration when determined.

COLLECTION SYSTEM

Gravity Collection

Conventional gravity sewage collection systems are the oldest forms of sewage collection and sanitation dating back to the Roman Empire. These systems generally require no mechanical or electrical facilities and rely solely on gravity to transport sewage from the points of connection to a central receiving location, either a transfer lift station or a wastewater treatment plant (WWTP). Gravity collection systems are designed with network of pipes placed at slopes sufficient to maintain minimum velocities to transport solids and prevent deposition and accumulation of materials in the system. Typically, the network is subdivided into primary pipes (sewer mainlines along main roads), secondary pipes, and tertiary pipes collecting wastes from individual neighborhoods and properties.

Design Criteria

Gravity sewer wastewater contains human waste solids, grit, and other solids that down the drain. In considering the solid content in gravity sewers they must be designed to “self-clean” which requires specific velocities to be maintained to “flush” the solids to their destination. Velocities must be maintained at a minimum of 2 to 3 fps (feet per second) to ensure minimal build-up of material within collection lines. Velocities are maintained by designing gravity sewer collection lines to have slopes as is related of flow and pipe diameter.

Manholes are required for access at given straight distances along the gravity sewer lines, at pipe intersections, and at any change in pipe direction. Manholes allow for maintenance, inspection, and cleaning of the gravity collection system. Manholes are generally required at the end of each line, at all changes in grade, size, or alignment, at all intersections, and at distances not to exceed 400 ft for sewers 15” or less (Recommended Standards for Wastewater Facilities, 2004).

Minimum pipe diameters are required in gravity sewers to minimize blockages and allow for adequate space for cleaning equipment and cameras. Although the District does not currently have standard design criteria established for gravity sewer collection systems there are standards set forth in the industry and by local agencies that will be the basis for design. Based on agency and industry standards (and previous studies), a 6-inch minimum gravity sewer main line will be utilized. Gravity sewer pipe materials are assumed to be either PVC SDR3-35 or HDPE PE3408.

Manning’s equation for open channel flow will be utilized with a minimum allowable pipe slope and coefficient “n” equal to 0.013, where “n” is the roughness coefficient of the pipe material.

Table 4 – Gravity Sewer Main Slopes and Design Depths

Pipe Size (inches)	Minimum Slope ¹ (%)	Maximum Liquid Depth to Diameter Ratio (d/D)	Maximum Percent Full (%)
8	0.4	0.5	50
10	0.28	0.5	50
12	0.22	0.5	50
15	0.16	0.75	75

¹ Table 5.1 2013 AECOM Report

Estimated minimum cover over gravity sewer pipes should be maintained at 5 feet with an additional 1-foot vertical separation from existing or future utilities.

Lateral Connection Requirements

Each individual property will be required to connect to the gravity sewer collection system (where appropriate) with private laterals. Laterals are typically owned and maintained by the individual property owners. Each property owner is expected to be responsible for the construction of the lateral connection. Laterals are typically a minimum of 4-inch diameter at a minimum of 2 percent slope per the California Plumbing Code.

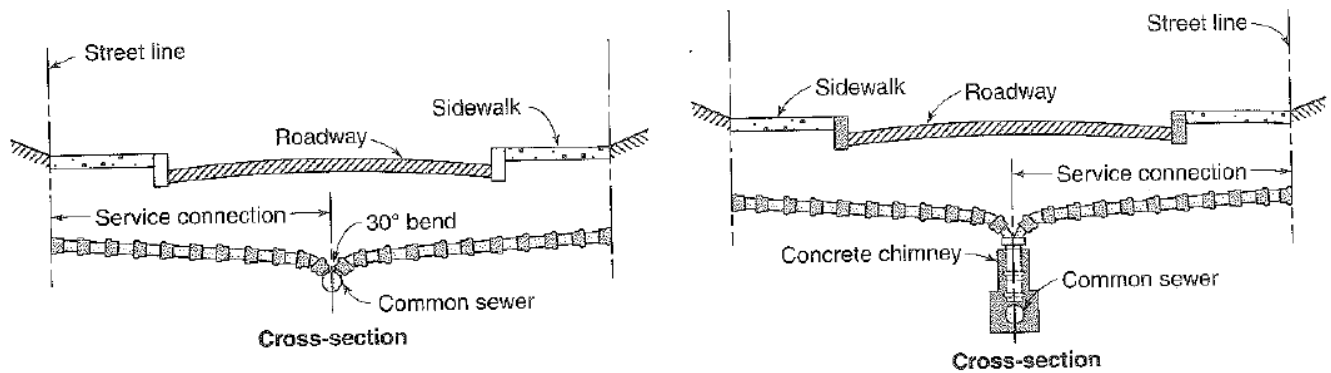


Figure 4 - Typical gravity sewer service lateral

Constructed costs for gravity sewers service laterals vary based upon main line depth, geological conditions, groundwater elevation, pipe material, and service lateral length.

Lateral size serving commercial multiple family dwellings must maintain pipe slope uniform from the sewer main to the property line. Minimum depths for laterals shall be maintained at 4 feet. Wye branches are used for lateral connections to mainline connections. Cleanouts shall be required with all lateral connections.

Right-of-way Requirements

ROW equipment for gravity sewers consists of large diameter mainline laid at a constant slope, manholes, lift stations (if required), and air release valves (if required). Costs fluctuate based upon bedding material, location (rural versus urban), clearing costs, topography, geological conditions, depth, and surface restoration costs. Table 2 excludes manholes, lift-stations, service wye’s, and terminal cleanouts. It also assumes ideal soil conditions, no dewatering, and an 8-ft mean burial depth.

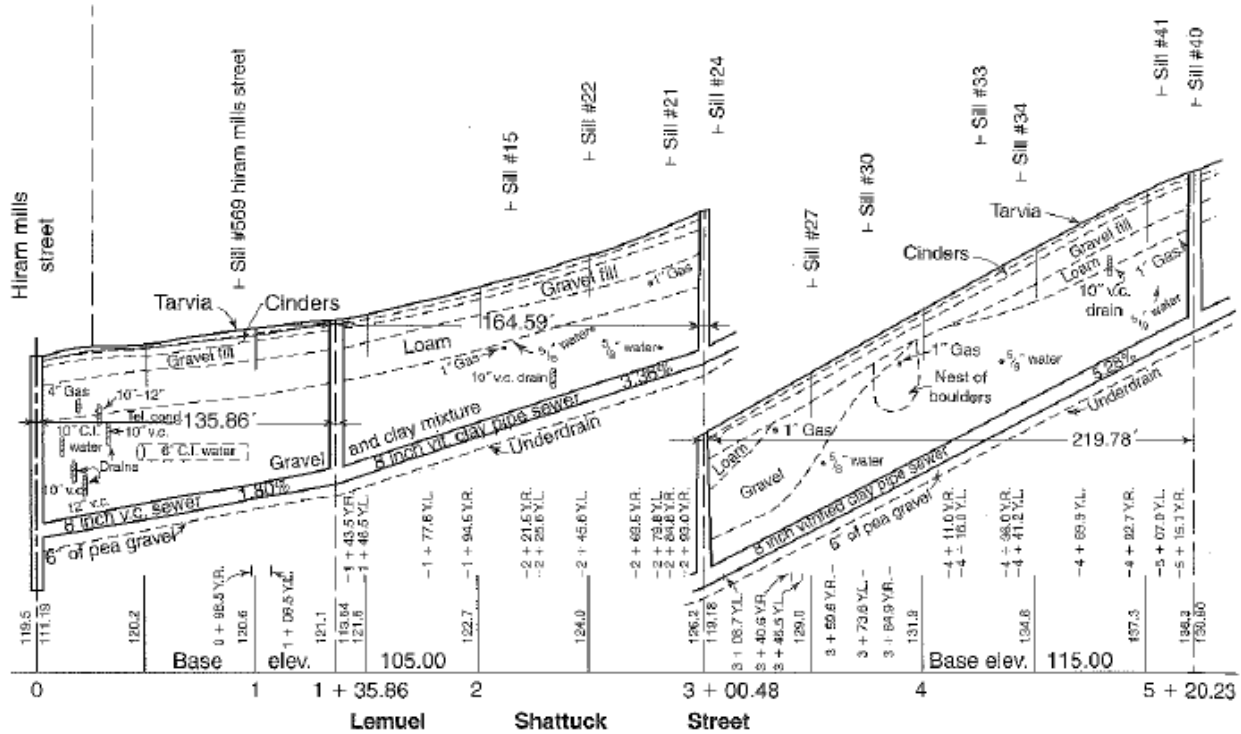


Figure 5 - Profile of gravity sewer

Table 5 - Installed Unit Costs: Gravity Sewer Pipe USD/Linear Ft (PVC).²

Item	Cost (2022 USD)
6" dia Mainline (USD/linear ft)	\$180
8" dia Mainline (USD/linear ft)	\$240
10" dia Mainline (USD/linear ft)	\$300

² Stantec, Preliminary Construction Cost Estimate, Los Olivos (28-Jun-22), WWTP South Side of District

Sewage Lift Station

When gravity sewers are installed in trenches deeper than 10 ft, the cost of sewer line installation increases significantly because of the more complex and costly excavation equipment and trench shoring techniques required. Lift stations are used to reduce mainline installation depth and, in some cases, reduce the capital cost of sewer system construction. Lift station construction has a significant economy of scale and is generally expensive and difficult to apply to small communities. For example, if the capacity of a lift station is increased by 100%, the construction cost would increase only by 50 to 55%.

A sewage lift station will be required to convey wastewater from the District gravity sewer collection system to a wastewater treatment plant regardless of the plant location. For estimating purposes, it is assumed the lift station will include a round manhole wet well, duplex submersible pumps, and telemetry controls. The lift station will need to include an odor control system.

The force main from the pump station to the WWTP shall be a dual force main to provide redundancy and reliability. It shall be two 6-inch diameter force mains, to be confirmed during design (Stantec 2022).

Effluent Sewer Collection

Effluent sewers utilize small settling tanks with pumping filters and effluent filtration units, small diameter transport lines (typically 2"-6") buried with the contours of the land just below frost depth, and small simple cleaning and air release ports throughout the pressurized line network. Since solids in an effluent sewer system are collected and digested in the on-lot tank, only liquid effluent is conveyed to the collection system. Line cleanings are eliminated as a result, so effluent sewer owners and users should be exempt from the charges typically associated with cleaning activities. In addition, effluent sewer collection systems are watertight, reducing infiltration costs in both conveyance and at the treatment facility.

Design Criteria

Transporting wastewater from the primary tanks to the centralized treatment facility will be accomplished with a 2"-4" force main lines. Assumptions include Hazen-Williams C-Factor of 150 and estimated flows per EDU (180 gpd, 3.5 people/dwelling unit).

The force mains in the conveyance system are typically only a few feet deep; therefore, there is potential of breakage due to future excavation events. Location wire and route markers will be used and strict enforcement controlling excavations in proximity of pipe should be exercised. Still, damage can occur and the used of isolation valves can be critical. Odor issues are a potential if primary tanks are not properly installed. All equipment should be installed to ensure proper seal of lids.

Because effluent sewers provide primary treatment on-lot and convey primary-treated and clarified effluent through a watertight, pressurized collection system that's largely immune to infiltration and inflow, they allow bioreactor volume reductions compared to other collection systems (gravity or grinder).

On Lot Processing Tank

A primary septic, or interceptor, tank will collect and retain raw sewage from each dwelling. In the interceptor tank, heavy solids (known as sludge) settle to the bottom while the lighter material (known as scum) floats to the top of the liquid contents. The organic material at the bottom of the tank (sludge) undergoes facultative and anaerobic digestion converting the organic matter to gases. Facultative microbes solubilize the complex organic material to volatile organic acids while strict anaerobes ferment the volatile organic acids to gases (methane, carbon dioxide, etc.). The rate at which both scum and sludge accumulates decreases as the biological process in the tank matures. It allows sufficient storage capacity for sludge and scum, resulting in long intervals between septage pump-outs. With long solids retention times, the tanks provide natural digestion, greatly reducing the impact of solids on a treatment facility. An effluent filter prevents any solids larger than 1/8-inch from reaching the pump. Typically, 40% to 60% of the BOD will be removed in the interceptor tank. It provides enough reserve space for 24 to 48 hours of normal operation before an emergency condition must be corrected, which minimizes the need for immediate maintenance. It provides an operating zone sufficient for modulating peak inflows without causing nuisance alarms or excessive hydraulic gradients.

The tanks in effluent sewers provide passive, long-term anaerobic digestion of primary sludge, flow equalization internal to the collection system, resistance to infiltration and inflow (I/I), and fine-screened effluent to the wastewater treatment facility. They facilitate the downsizing or complete elimination of influent fine-screen processes directly upstream of any wastewater secondary treatment process. The lower organic load of effluent sewers and their near elimination of I/I also permit smaller bioreactors (up

to ~ 57% smaller), reduce bioreactor aeration requirements (lowering bioprocess aeration by ~ 57%), and reduce biosolids management demands (by up to 75%).

For smaller clustered units such as the cottages and villas, and for commercial buildings such as retail shops and offices, one interceptor tank may serve more than one building. Tanks will be furnished appropriately sized for the expected waste flows, typically at a minimum of 2.2 times design flow. For larger users, such as the restaurant and clubhouse, two tanks in series may be used. Grease traps will be required for all commercial kitchen facilities.

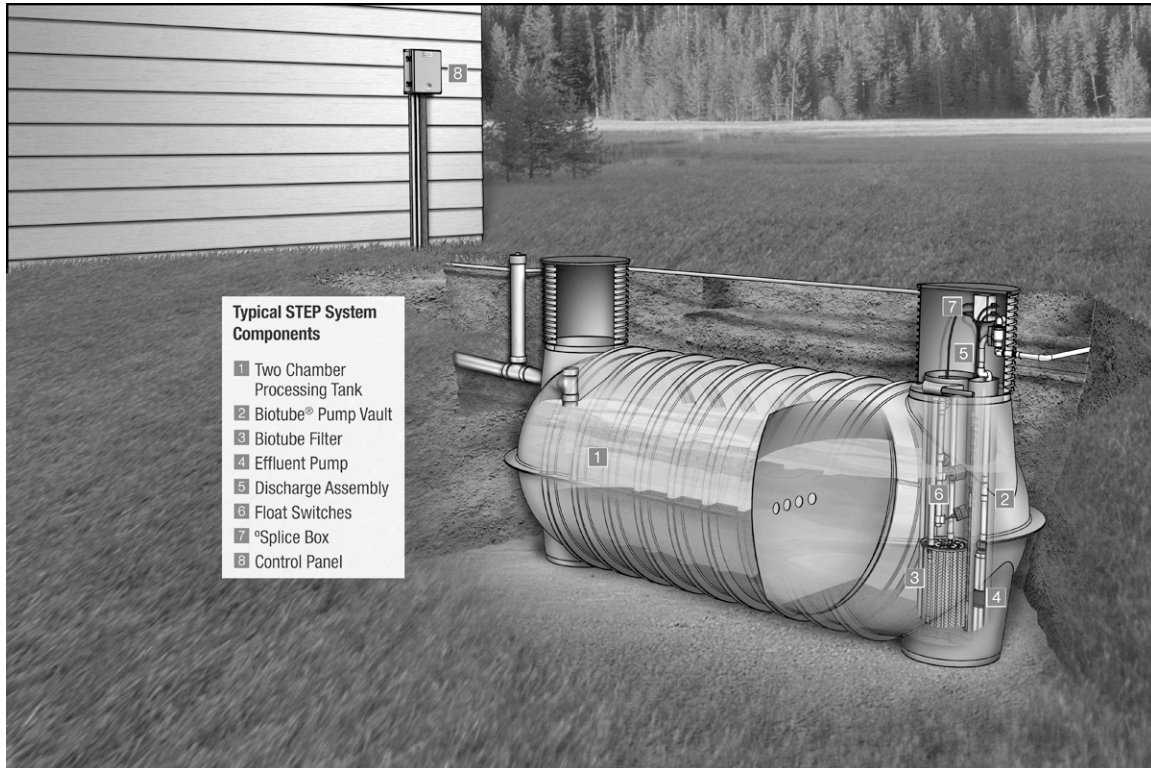


Figure 6 - Typical STEP system components.

courtesy of Orenco Systems Inc.

Lateral Connection Requirements

Effluent sewers use watertight tanks and low-pressure sewer mains. The mains are also watertight and do not include manholes; therefore, they are largely resistant to I/I. Per capita average flows are typically 50 gpcd.

Right-of-way Requirements

Mainline and appurtenances for pressure sewers typically consist of small diameter mainlines (2” to 6” typical), service saddles, air release valves, clean-outs, pigging ports, and mainline isolation valves. Effluent sewer lines are typically installed at minimum depths of 24” to 30” or below frost depth and follow the contour of the land. Mainline material is generally polyvinyl chloride (PVC), polyethylene (PE or HDPE), with pipe buried at shallow depths and with fewer joints compared to gravity sewer due to their increased individual pipe lengths.

Water Lateral Separation Requirements

Individual lot water lateral separation will be required at a minimum of 5 horizontal feet. Primary tank separation from main water lines shall be maintained at a minimum of 25 horizontal feet.

WASTEWATER TREATMENT FACILITY SITING

The siting and size of the treatment facility is outside of the scope of current contract; however, assumptions were made based on previous engineering work. Based on the Stantec Basis of Design Report the preliminary WWTP site will need a minimum of 1.6 acres to accommodate the treatment process, influent/effluent storage, truck access, equipment, buildings/screening, and other onsite needs at buildout of the facility. In addition to the two top recommendations from the Stantec report, an additional option to utilize land at the school was discussed as an alternative treatment and dispersal of effluents. This cooperative with the school district would have to be met before moving forward with additional analysis. For the purpose of this analysis a treatment facility located at the South point of the District was utilized for sizing of collection lines. Based on a general hydraulic analysis a location to the North or at the School would not dramatically impact the cost of the effluent sewer collection system.

ADVANCED ONSITE SYSTEMS

Advanced onsite systems may be an alternative for larger lots within the district. Advanced onsite systems are individual lot systems that collect, treat, and disperse treated water to an on-lot soil dispersal system. Based on the expected background aquifer nitrogen levels it was assumed that standard septic systems would not be an alternative within the district, additional it has been assumed that nitrogen specific advanced onsite systems would be required if they were identified as a feasible solution. Additional evaluation is required to verify that advanced onsite systems are an approvable solution within the district.

Advanced onsite systems include a primary solids settling tank, aeration process for secondary treatment, nitrogen reduction specific processes, and a soil absorption system for final dispersal of treated water. There are a variety of treatment processes and manufacturers available in the area that have systems that can meet the needs of the regulatory requirements if identified as a feasible alternative.

WASTEWATER COLLECTION SYSTEM OPTIONAL LAYOUTS

Various layouts were analyzed based on the recommended district zone map. Options A, B, C, and D provide alternative configurations that can be evaluated as additional information materializes with respect to systems costs and potential for approval of individual on-lot advanced treatment systems.

Option A - Gravity Sewer in central town (zones 1 & 2), Effluent Sewer in area surrounding downtown (zones 3-6)

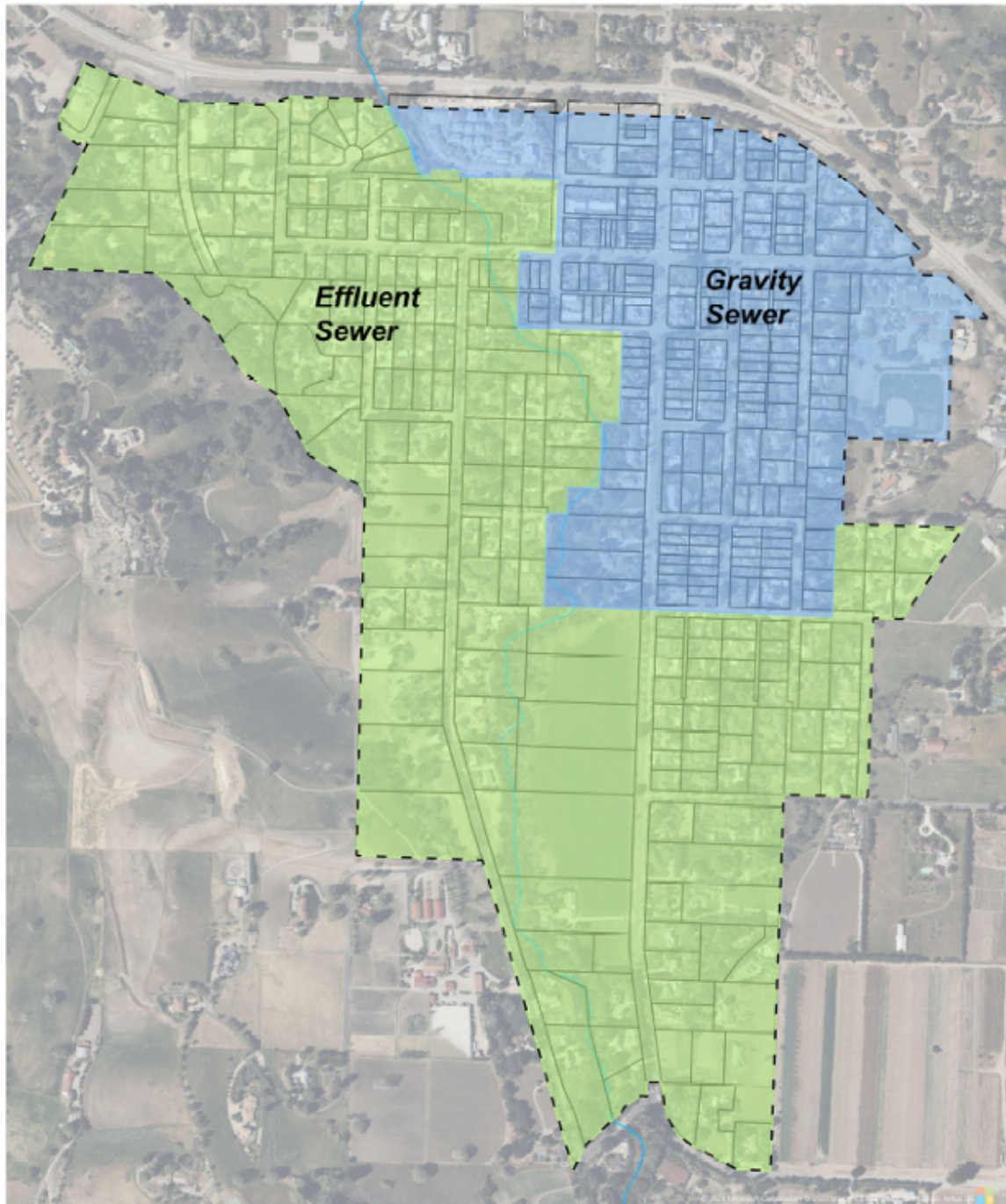


Figure 7 – Proposed Hybrid Sewer Collection System Alternative A

Option B - Effluent Sewer for entire district (zones 1-6)

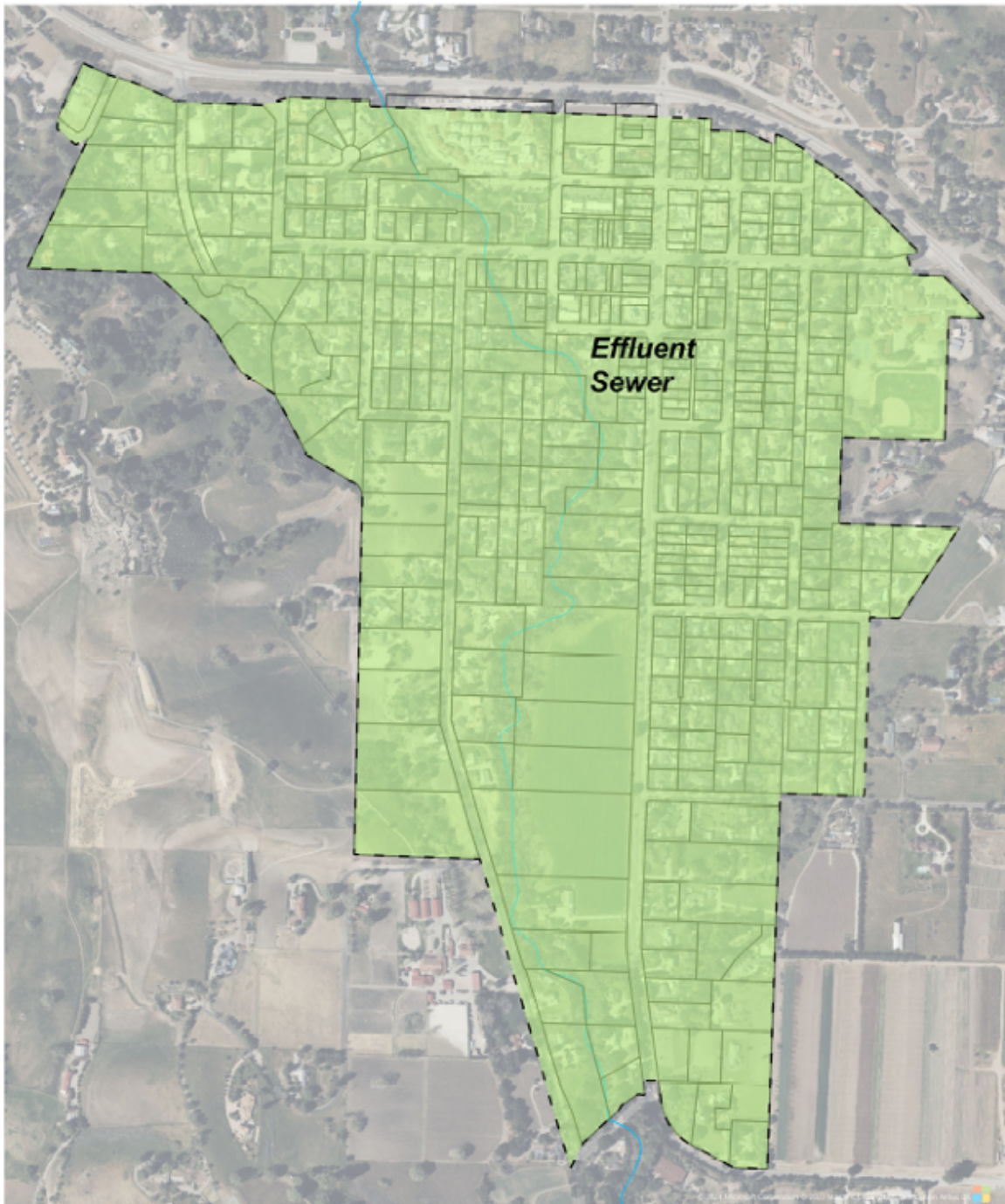


Figure 8 – Proposed Hybrid Sewer Collection System Alternative B

Option C - Gravity Sewer in central town (zones 1 & 2), Effluent Sewer in immediate area surrounding downtown (zones 3-5), Advanced Onsite Systems (zone 6)

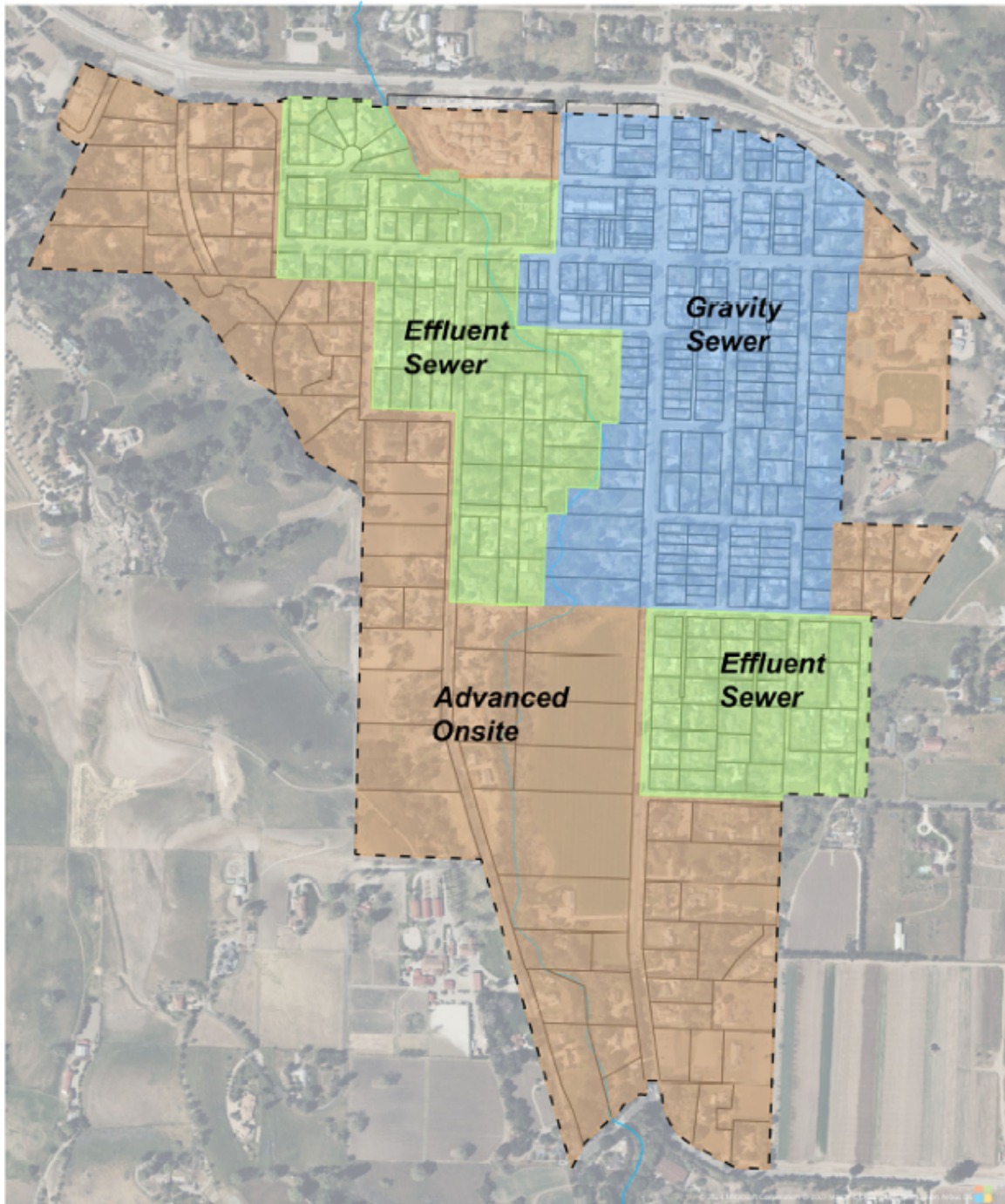


Figure 9 – Proposed Hybrid Sewer Collection System Alternative C

Option D - Effluent Sewer in dense areas (zones 1-5), Advanced Onsite Systems (zone 6)

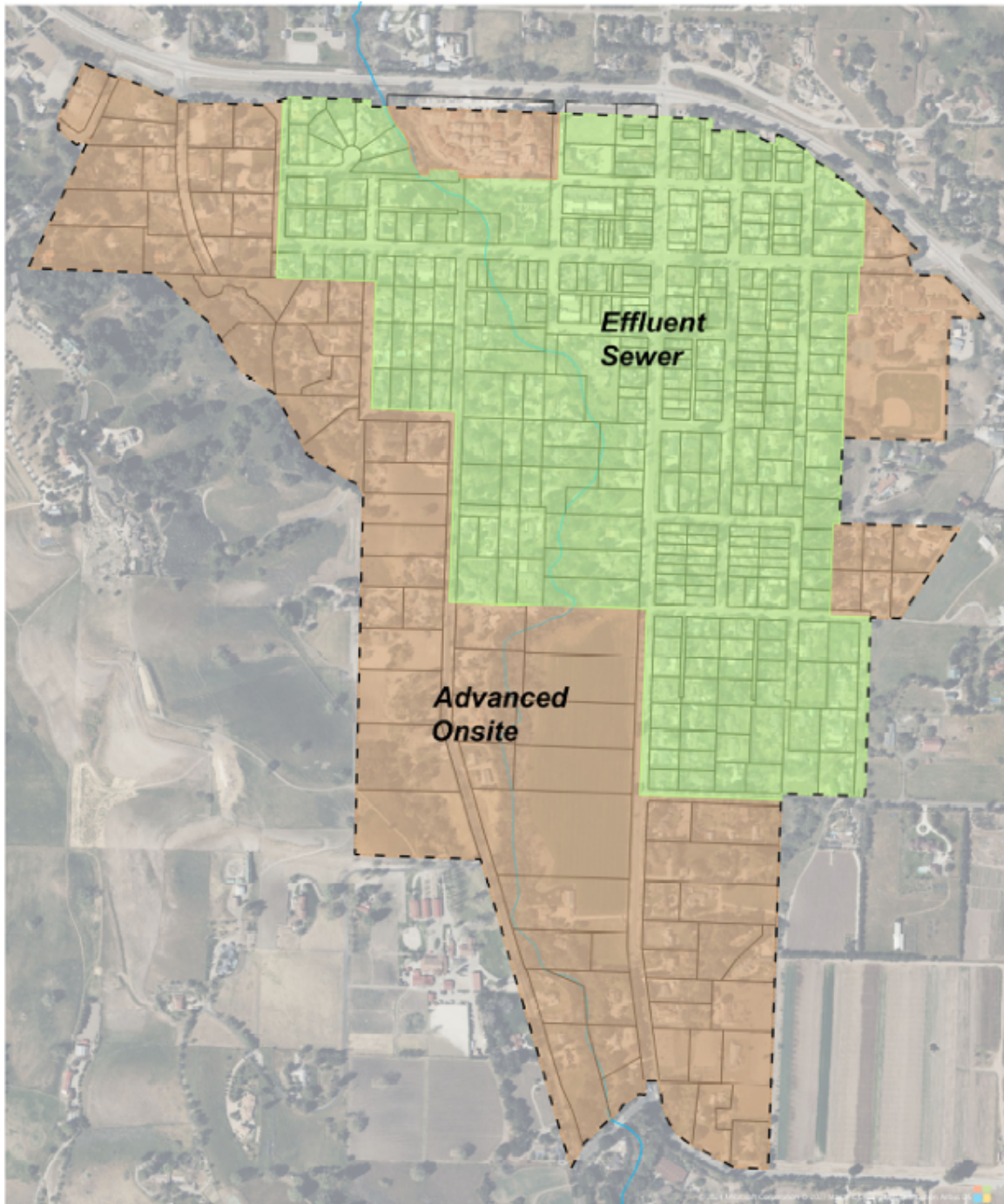


Figure 10 – Proposed Hybrid Sewer Collection System Alternative D

WASTEWATER FLOW AND COMPOSITION ANALYSIS

Wastewater collection options such as Gravity, grinder, and effluent sewers each deliver unique hydraulics and wastewater characteristics to downstream wastewater treatment facilities that greatly affect the design, capital costs, performance, and operational costs of treatment facilities.

The type of wastewater collection system also influences primary and biosolid accumulation and management requirements at treatment facilities. Effluent sewers, when paired with MBRs, reduce the overall volume of primary solids and waste-activated sludge generated by up to 75% (refer to Figure 15 and Table 7 for additional details). With the trend for more stringent regulations governing the disposal of solids, design options that reduce the overall quantity of solids warrant close attention.

Zone Populations

Table 6 – Zone Populations

Zone	Parcels	Equivalent Dwelling Units	Population Equivalent
		(EDU's)	(2.5/EDU)
1	149	249	623
2	58	58	145
3	46	46	115
4	43	43	108
5	26	26	65
6	74	74	185
Total	396	496	1240

Alternative Collection System Typical Loading Rates

Table 7 – Alternative Collection System Typical Loading Rates

Constituent Loading Assumptions	Effluent Sewer	Grinder Sewer	Gravity Sewer
Design Average Flow	50 gpcd	50 gpcd	120 gpcd
Biochemical Oxygen Demand (BOD ₅)	150 mg/L	450 mg/L	200 mg/L
Chemical Oxygen Demand (COD)	381 mg/L	1143 mg/L	508 mg/L
Total Suspended Solids (TSS)	40 mg/L	500 mg/L	210 mg/L
Total Kjeldahl Nitrogen (TKN)	65 mg/L	70 mg/L	35 mg/L
Ammonia (NH ₃ -N)	40 mg/L	55 mg/L	21 mg/L
Total Phosphorus	16 mg/L	17 mg/L	7 mg/L
Fats, Oils, Greases (FOG)	15 mg/L	164 mg/L	80 mg/L

¹Adapted from Metcalf & Eddy 2003; Crites and Tchobanoglous 1998; USEPA 2002; Winneberger 1984.

Table 8 – Estimated Typical Flow Rates

Zone	Effluent Sewer Avg Day	Grinder Sewer Avg Day	Gravity Sewer Avg Day
	(gpd)	(gpd)	(gpd)
1	31,150	31,150	74,760
2	7,200	7,200	17,400
3	5,750	5,750	13,800
4	5,400	5,400	12,960
5	3,250	3,250	7,800
6	9,250	9,250	22,200
Total	62,050	62,050	148,920

Gravity Wastewater Hydraulic and Constituents Estimates

Table 9 – Gravity Collection Hydraulic Estimates

Zone	Avg Day*	Max Month	Max Day	Peak Hour	Peak Hour Factor
	(gpd)	(gpd)	(gpd)	(gpm)	
1	46,781	53,798	65,493	130	4
2	11,600	13,340	16,240	32	4
Total	58,381	67,138	81,733	162	4

* Average day flow based on current water records

Table 10 – Gravity Collection Wastewater Constituent Estimates

Contaminant	Typical Composition	Design Values
Total Suspended Solids (TSS)	175 to 300 mg/L	200 mg/L
BODs at 20°C	200 to 350 mg/L	210 mg/L
Nitrogen (total as N)	30 to 70 mg/L	45 mg/L
Phosphorous (total as P)	6 to 12 mg/L	7 mg/L

Effluent Sewer Wastewater Hydraulic and Constituent Estimates

Table 11 – Effluent Sewer Hydraulic Estimates

Zone	Avg Day*	Max Month	Max Day	Peak Hour	Peak Hour Factor
	(gpd)	(gpd)	(gpd)	(gpm)	
1	46,781	53,798	65,493	65	2
2	11,600	13,340	16,240	16	2

3	9,200	10,580	12,880	13	2
4	8,600	9,890	12,040	12	2
5	5,200	5,980	7,280	7	2
6	14,800	17,020	20,720	21	2
Total	96,181	110,608	134,653	134	2

* Average day flow based on current water records

Table 12 – Effluent Sewer Collection Wastewater Constituent Estimates

Contaminant	Typical Composition	Design Values
Total Suspended Solids (TSS)	35 to 50 mg/L	40 mg/L
BODs at 20°C	110 to 220 mg/L	150 mg/L
Nitrogen (total as N)	40 to 70 mg/L	65 mg/L
Phosphorous (total as P)	8 to 18 mg/L	16 mg/L

Options Wastewater Hydraulic Load Estimates

Table 13 – Option Hydraulic Estimates

Option	Avg Day (gpd)	Max Month (gpd)	Max Day (gpd)	Peak Hour (gpm)
A	96,181	110,608	134,653	215
B	96,181	110,608	134,653	134
C	81,381	93,588	113,933	194
D	81,381	93,588	113,933	113

Options Wastewater Constituent Load Estimates

Table 14 - Option Biological and Solids Loading Estimates

Option	Avg BOD (mg/L)	Avg TSS (mg/L)	Avg TKN (mg/L)
A	180	143	53
B	150	40	65
C	186	162	51
D	150	40	65

Wastewater Flow and Composition Summary

Options B & D provide both flow and composition benefits to the design of the centralized treatment facility and reuse or treated water discharge systems. The reduced peak hydraulic capacity and reduced wastewater constituents are expected to reduce the capital costs associated with the treatment facility.

SUMMARY

Based on the analysis above and attached estimated construction costs for each option, the lowest capital cost options effluent sewer technology coupled with advanced onsite initial options for zone 6. Effluent sewer collection technology reduces waste strength and hydraulic loads, compared to gravity sewer options, in a manner that is energy-conscious, environmentally sustainable, and cost-efficient. Effluent sewers also allow for a reduction in biosolids handling costs and eliminate sewer line cleaning.

Preliminary Cost Summary

Small communities face enormous challenges when constructing and maintaining wastewater infrastructure. Conventional collection system technologies — when applied to small, rural communities — typically result in costs that exceed affordability thresholds and ultimately require grant subsidies to attain reasonable user rates.

Table 15 – Cost Estimates Breakdown

Option	Overhead and Construction	Gravity Sewer Construction	Effluent Sewer Construction	Collection Contingency Costs	Advanced Onsite Construction	Engineering Costs	Costs Provided by District
	(\$US)	(\$US)	(\$US)	(\$US)	(\$US)	(\$US)	(\$US)
A	\$2,830,000	\$6,777,000	\$3,866,382	\$4,042,015	\$0	\$5,254,619	\$2,760,000
B	\$2,830,000	\$0	\$8,279,524	\$3,332,857	\$0	\$4,332,714	\$2,360,000
C	\$2,830,000	\$6,777,000	\$2,407,632	\$3,604,390	\$6,734,000	\$4,685,706	\$2,760,000
D	\$2,830,000	\$0	\$6,820,774	\$2,895,232	\$6,734,000	\$3,763,802	\$2,360,000

Table 16 – Cost Estimate Totals

Option	Collection System Subtotal	Advanced Onsite Subtotal
	(\$US)	(\$US)
A	\$25,503,016	\$0
B	\$21,637,492	\$0
C	\$23,064,728	\$6,734,00
D	\$18,669,808	\$6,734,00

Alternative collection systems were developed and designed to avoid the shortcomings associated with applying gravity sewers to small communities. Historically, effluent sewers (\$9,702/connection) have resulted in an average cost savings of \$6,692 (41%), when compared to gravity sewers (\$16,394/connection). In California the price of construction and material greatly exceed costs seen throughout the country, yet the savings historically seen with effluent sewer installations appear to still hold true. Effluent sewers may also offer for expedited installation times within the right-of-ways as

small diameter pipes and directional boring activities are not as extensive as trenching of deep gravity sewer lines.

Additional analysis should be completed to further evaluate hydraulic loads for the various alternatives as flows from water records may not accurately reflect flows associated with gravity sewers where groundwater impact may impact the flow a wastewater treatment facility receives from any gravity connection. Additionally, wastewater characteristics from gravity sewers are estimated assuming impacts from groundwater and additional infiltration and inflow sources, therefore wastewater characteristics are based on the 120 gpd per capita typical flow.

An effluent sewer alternative would also all for further evaluation in connecting to Solvang as they would likely not require additional booster stations to transport the effluent.

Alternatives C&D provide a phased approach which includes the use of Advanced Onsite Systems throughout zone 6, which allows for a slightly reduced capital cost for both collection and treatment. It should be noted that the costs associated with the Advanced Onsite Systems includes treatment and dispersal, compared to the Effluent Sewer and Gravity costs which only include collection (treatment and dispersal or reuse will be additional cost evaluated in another report). If one of these two options is selected for funding and construction, there is a future opportunity for advanced onsite systems to remain in operations while connecting to the centralized facility. This future option would greatly reduce the need for the centralized treatment facility to expand based on organic loads, but simply require the need for additional hydraulic capacity, which could drastically reduce the cost for future expansion.

Based on the economic estimates, and the potential reduction of community disturbances during construction it is recommended that Option B & D be considered for funding and further design as the most viable collection alternative for the community of Los Olivos. These two alternatives would also all for further evaluation in connecting to Solvang as they would likely not require additional booster stations to transport the effluent.

APPENDIX A

30% DESIGN PLANS FOR: LOS OLIVOS CALIFORNIA EFFLUENT SEWER WASTEWATER COLLECTION SYSTEM

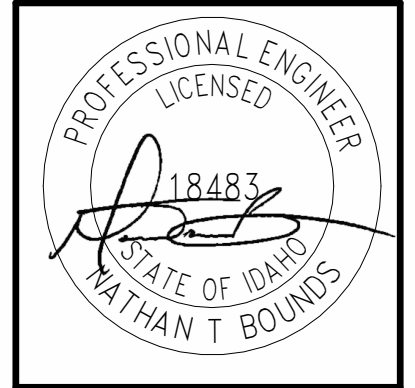
PLAN SPECIFICATIONS

SYSTEM DESCRIPTION:
THESE PLANS DEPICT THE PRELIMINARY DESIGN OF THE WASTEWATER COLLECTION AND TREATMENT SYSTEM SERVICING THE SPRING ROCK DEVELOPMENT, LOCATED IN ADA COUNTY, IDAHO STATE. SPRING ROCK DEVELOPMENT IS A PRIVATE COMMUNITY LOCATED ALONG TENMILE CREEK RD WITHIN THE CITY OF KUNA, ID.

COMPLIANCE:
THE SYSTEM DESIGN WILL ADHERE TO CALIFORNIA STATE AND SANTA BARBARA COUNTY REQUIREMENTS AS PRESCRIBED IN CALIFORNIA.

TOPOGRAPHIC SURVEY NOTES:

1. LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE ONLY AND ARE BASED ON RECORD INFORMATION.
2. ALL ELEVATIONS DISTANCES ARE IN FEET.
3. ELEVATIONS ARE REFERENCED TO MEAN SEA LEVEL.



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LOS OLIVOS, CA

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No.	Description	Date

Project number	22031
Date	5.8.24
Drawn by	JS
Checked by	NTB

PRELIMINARY DESIGN

COVER SHEET
C101

DRAWING INDEX

SHEET NUMBER	SHEET NAME
C000	TEMPORARY
C101	COVER SHEET
C102	SYSTEM OVERVIEW
C103	ZONES 1-3
C104	ZONES 4-5
C105	ZONE 6
C106	EXAMPLE OM LOT TANK DETAILS
C107	EFFLUENT SEWER DETAILS
C108	EFFLUENT SEWER DETAILS

OVERALL SITE PLAN

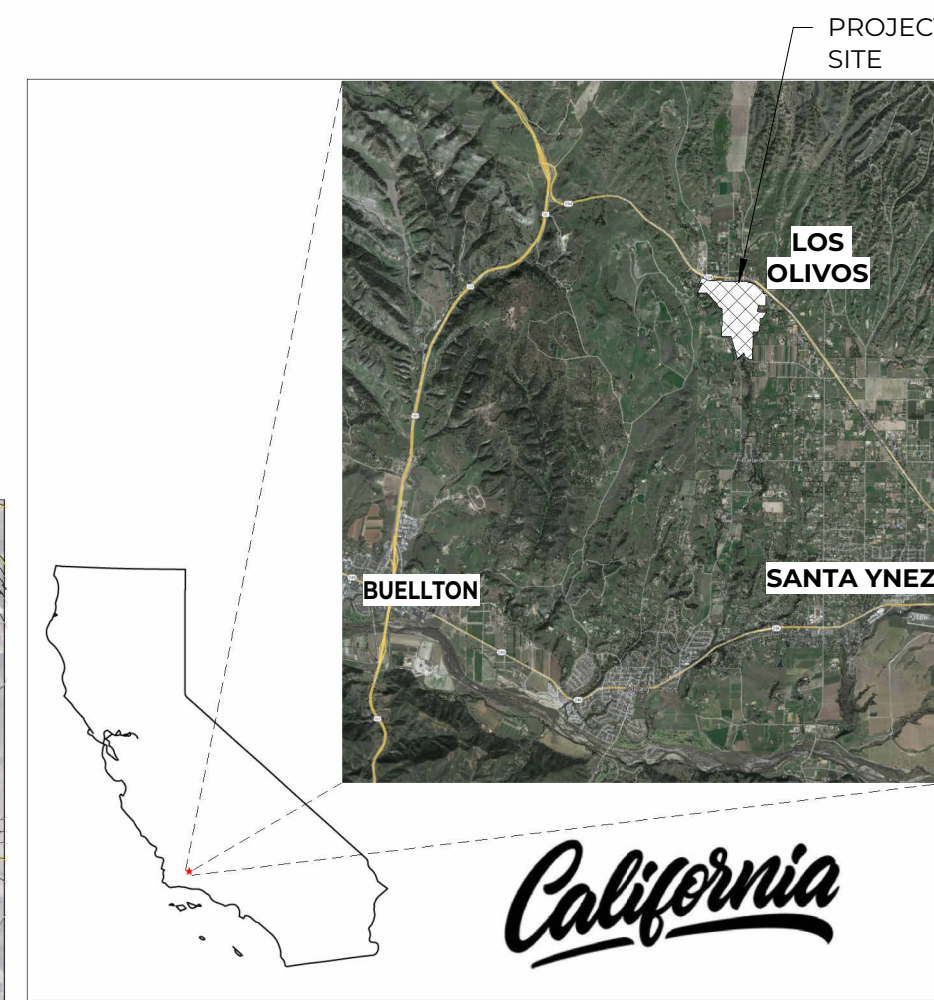
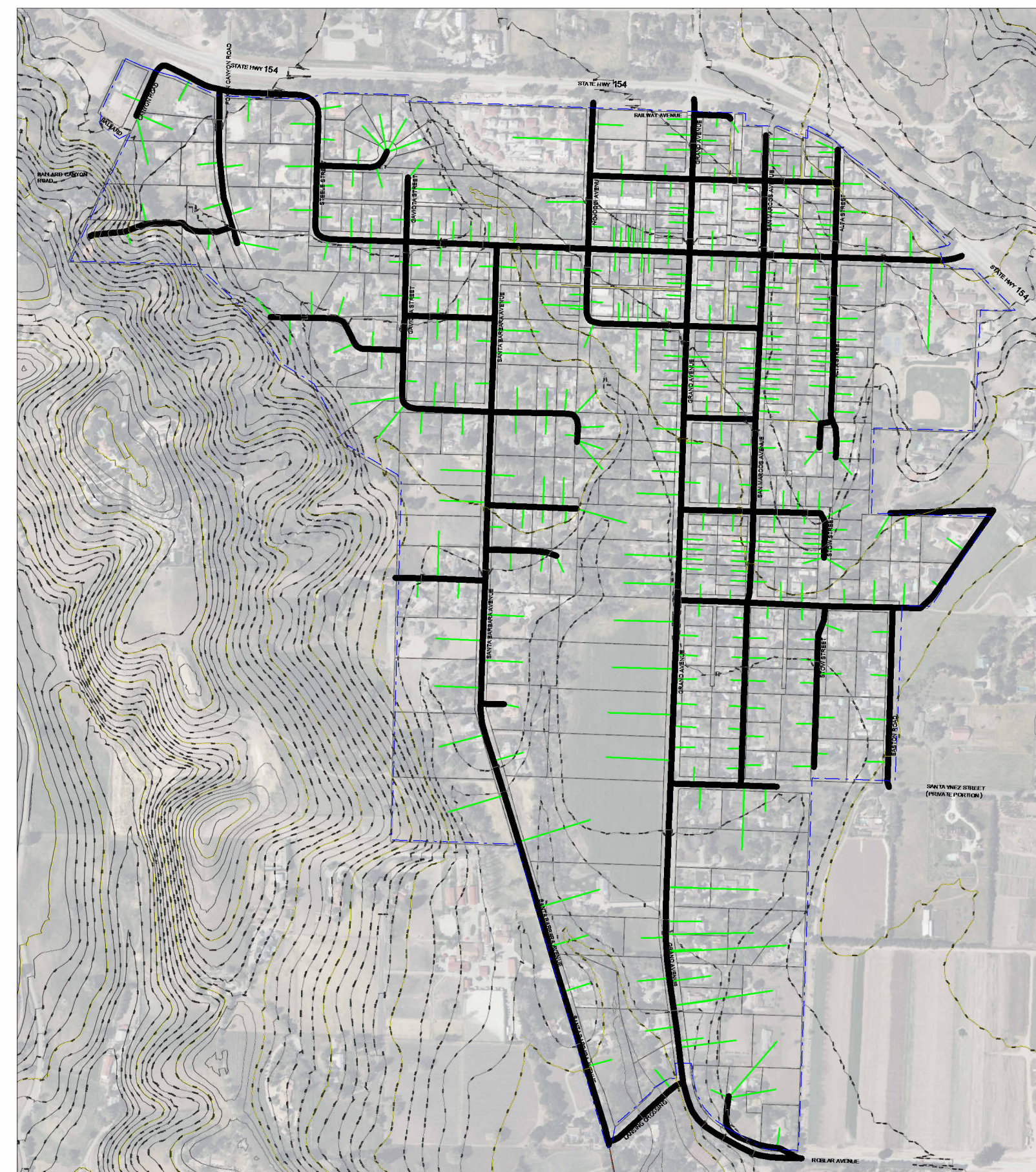
LEGEND

CIVIL	
(ELEV.)	EXISTING ELEV.
ELEV.	NEW ELEV.
	EXISTING WATER
	EXISTING WATERMAIN
	NEW WATER
	EXISTING STORM SEWER (STS)
	NEW STORM SEWER (STS)
	EXISTING SANITARY SEWER (SS)
	NEW SANITARY SEWER (SS)
	EXISTING PRESSURE SEWER (PS)
	NEW PRESSURE SEWER (PS)
	EXISTING FORCEMAIN (FM)
	NEW FORCEMAIN (FM)
	KITCHEN WASTE LINE (KW)
	NEW ELECTRICAL CONDUIT
	CLEANOUT
	EXISTING VALVE
	NEW VALVE
	EXISTING MANHOLE (MH)
	NEW MANHOLE (MH)
MECHANICAL	
	UNION
	BALL VALVE
	CHECK VALVE
	PIPE BREAK
	PIPE RISE
	PIPE DROP
	PIPE END CAP

CONTACT INFO

ENGINEERING FIRM: **REGEN, PLLC**
 ADDRESS: 213 S 11TH STREET
 BOISE, ID 83702
 (541) 580-2380
 CONTACT: TRISTIAN BOUNDS

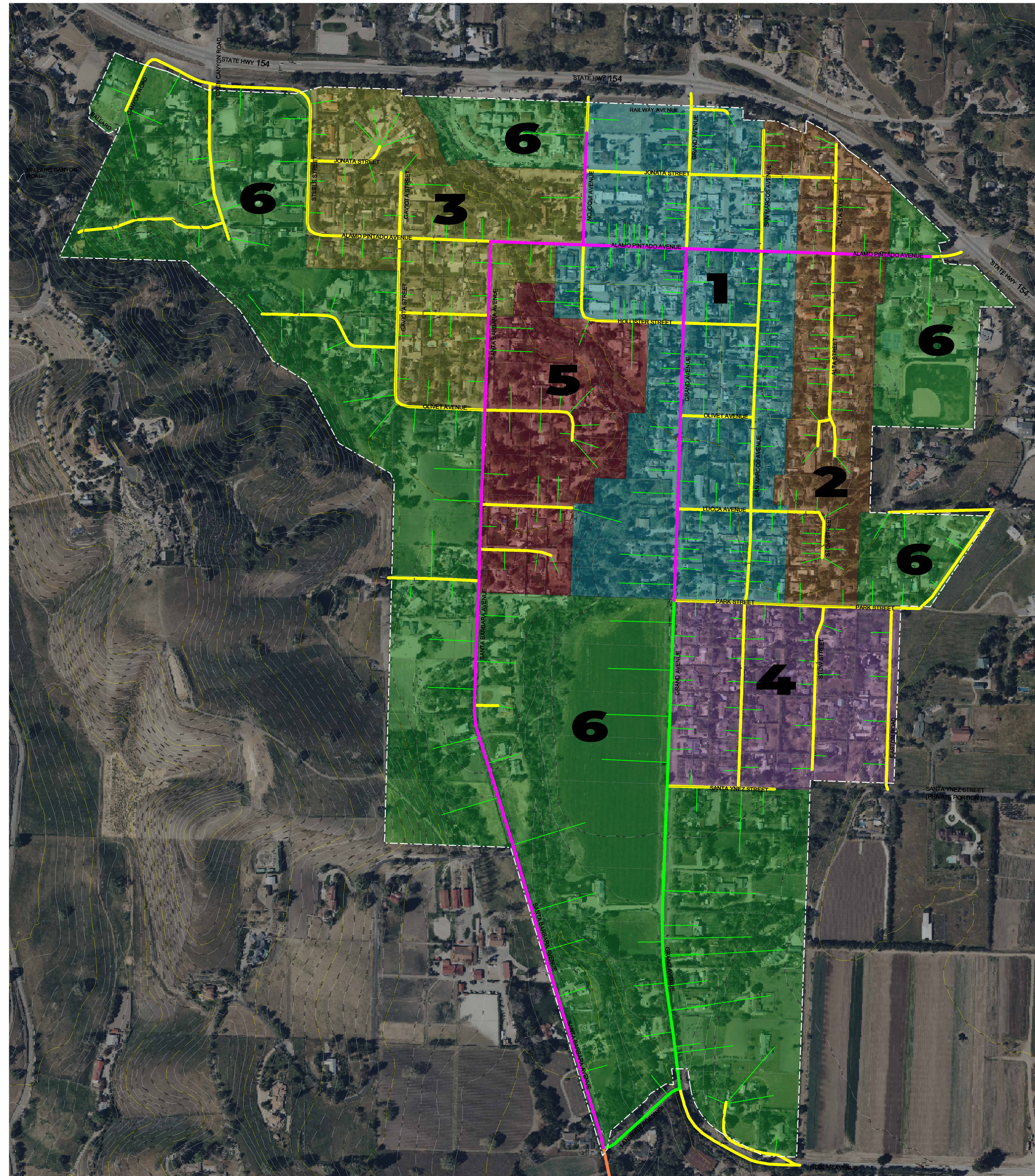
OWNER: **LOS OLIVOS**
 ADDRESS: LOS OLIVOS
 SERVICE DISTRICT
 (000) 000-0000
 CONTACT: GUY SAVAGE



DRY UTILITIES NOTE:
 DRY UTILITIES (ELECTRICITY, TELEPHONE, GAS, CABLE TV) SHOWN HEREON ARE APPROXIMATE. DESIGN SHALL BE BY THE SURVEYORS, AND INSTALLATION PAID FOR BY OWNER. CONTRACTOR SHALL COORDINATE WITH OWNER AND UTILITY COMPANIES IN THE TIMING AND INSTALLATION OF UTILITIES.

BEFORE YOU DIG, CALL





OVERALL LEGEND

- 2" Ø PIPE
- 3" Ø PIPE
- 4" Ø PIPE
- 6" Ø PIPE
- ZONE 1
- ZONE 2
- ZONE 3
- ZONE 4
- ZONE 5
- ZONE 6



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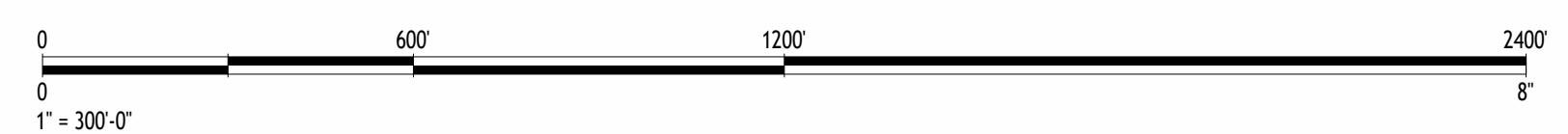
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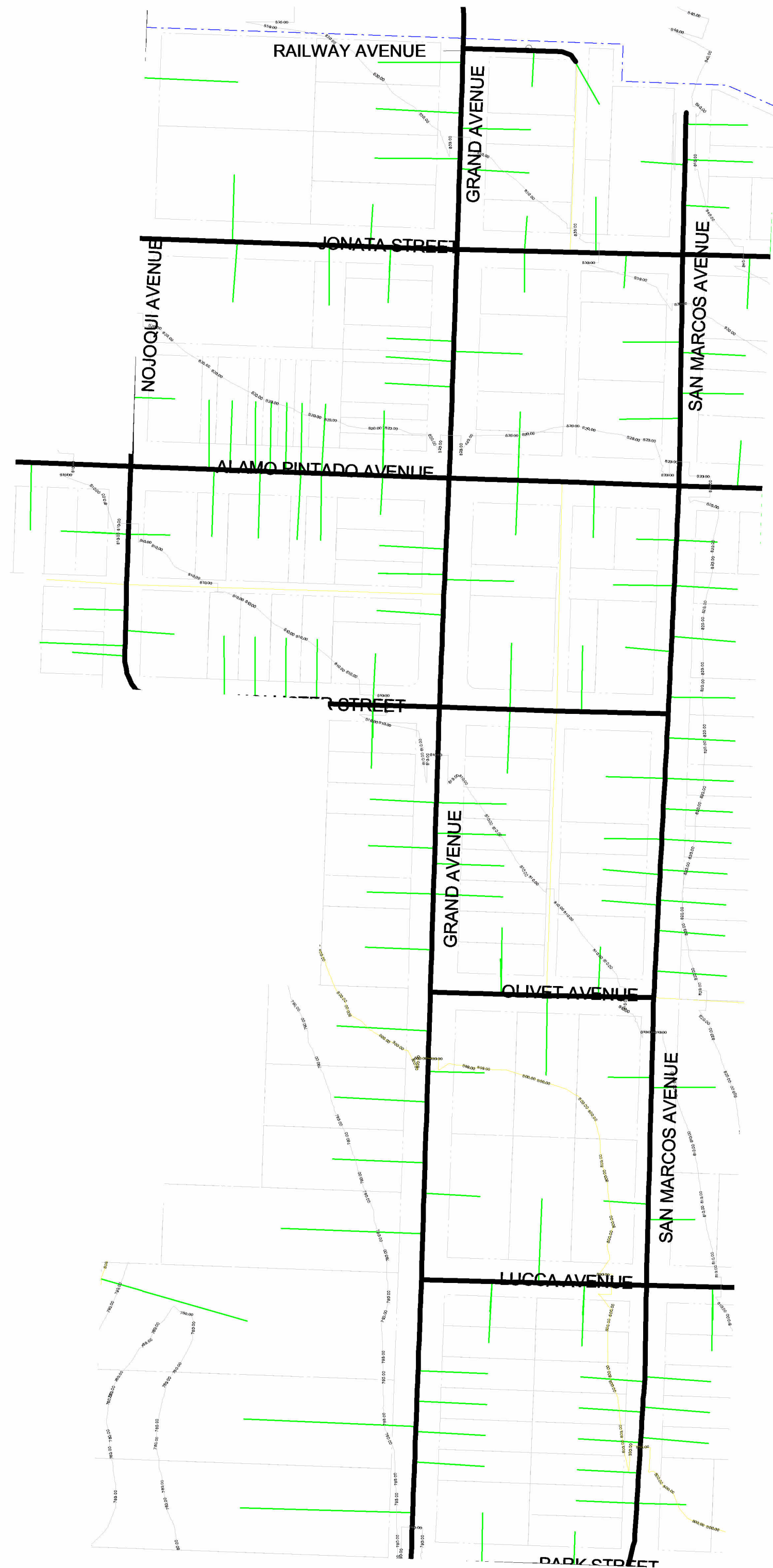
PRELIMINARY DESIGN

SYSTEM OVERVIEW

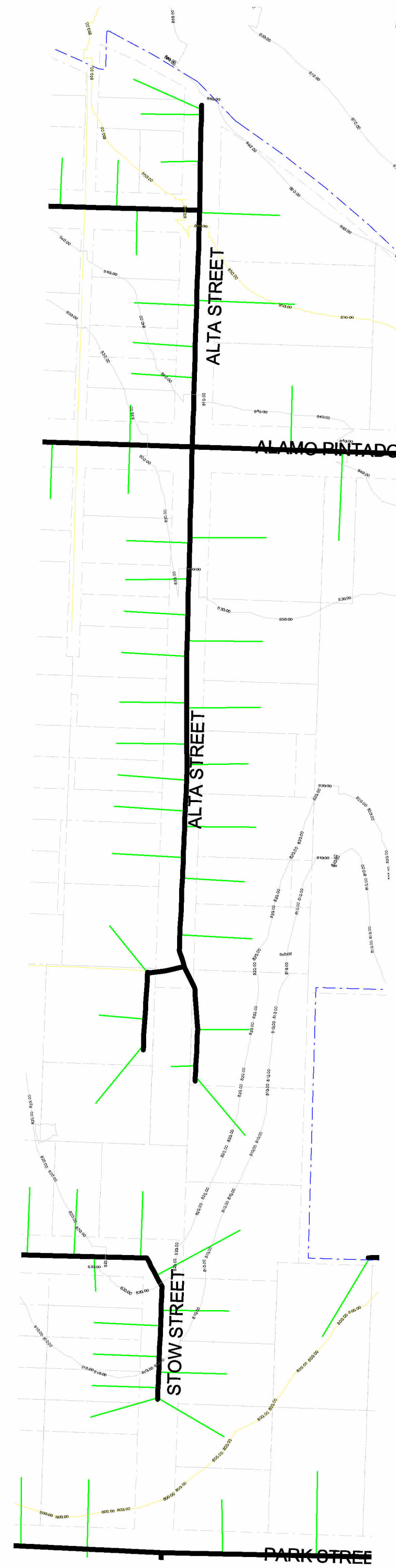
C102

1 OVERALL SITE PLAN
1" = 300'-0"

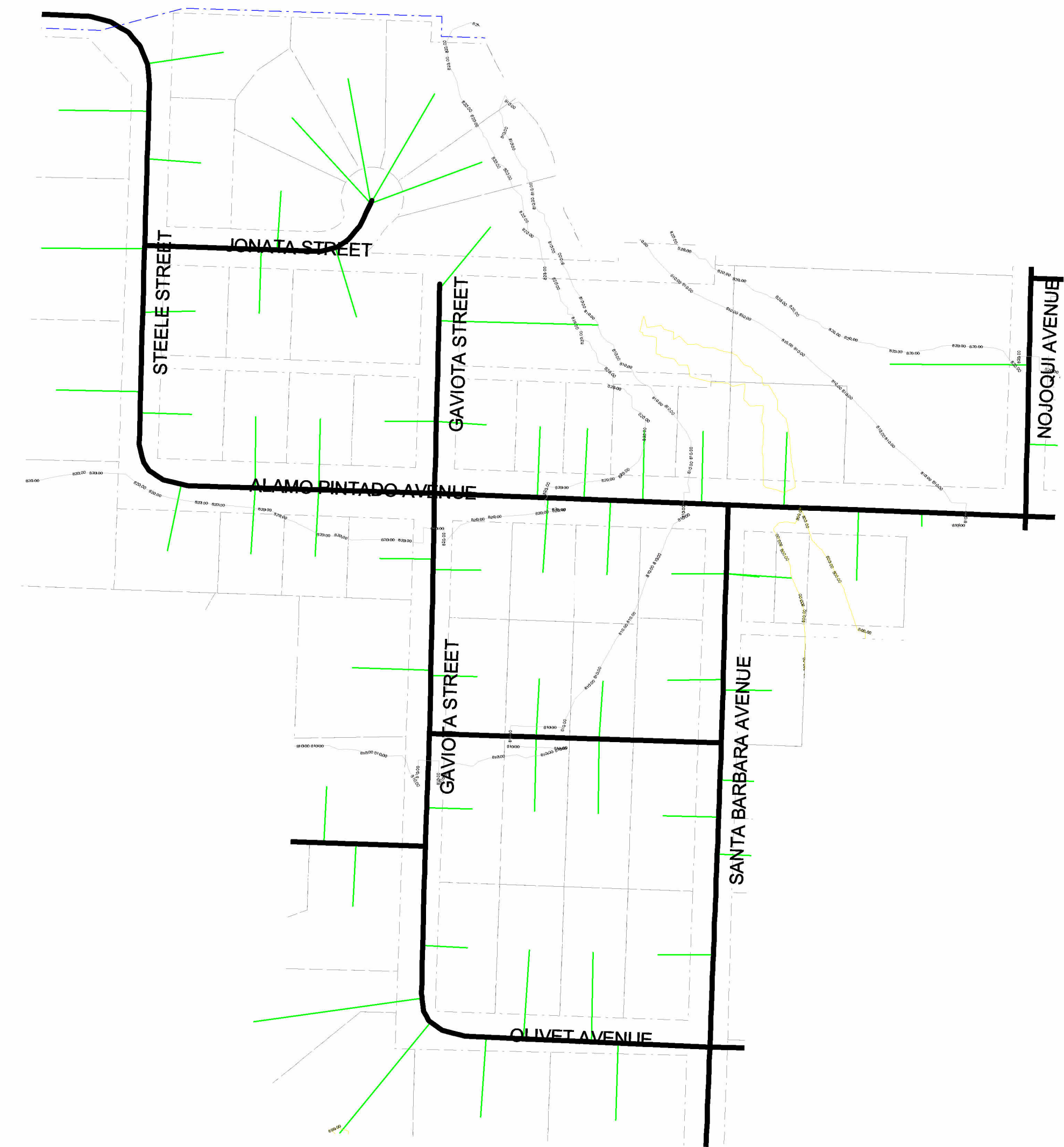




1 ZONE 1
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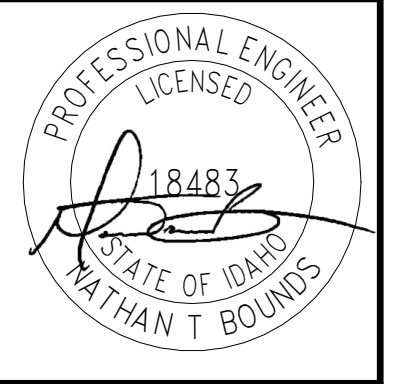
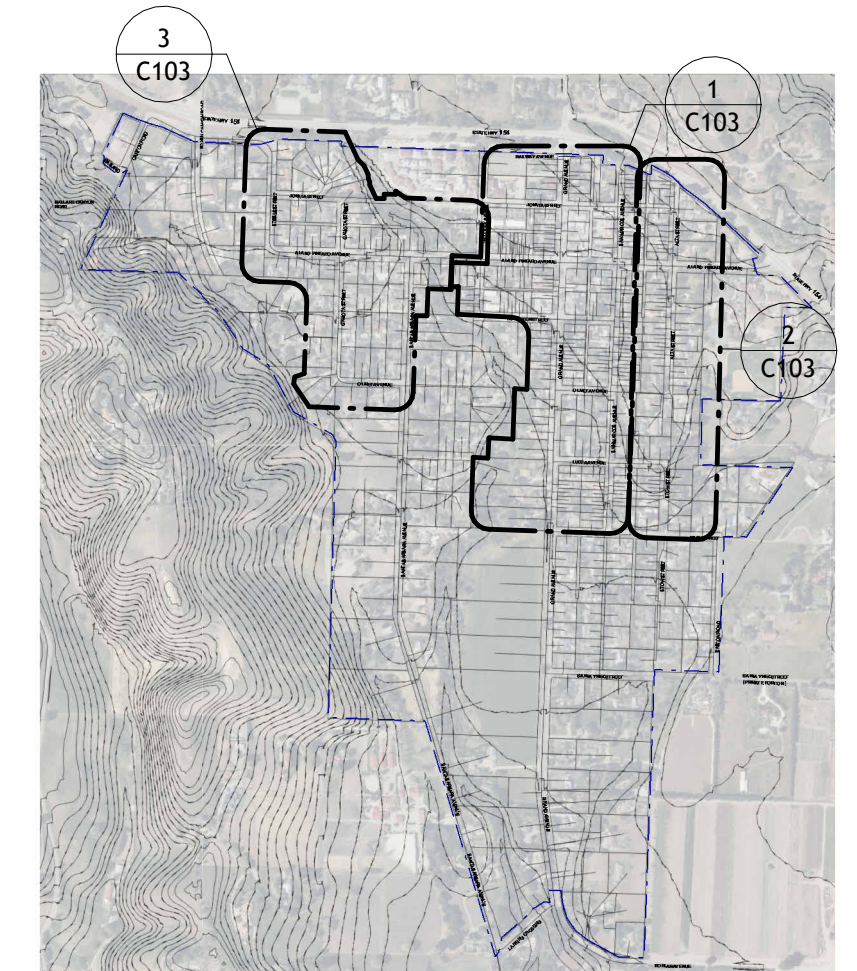


2 ZONE 2
1" = 160'-0"



3 ZONE 3
1" = 160'-0"

KEY PLAN



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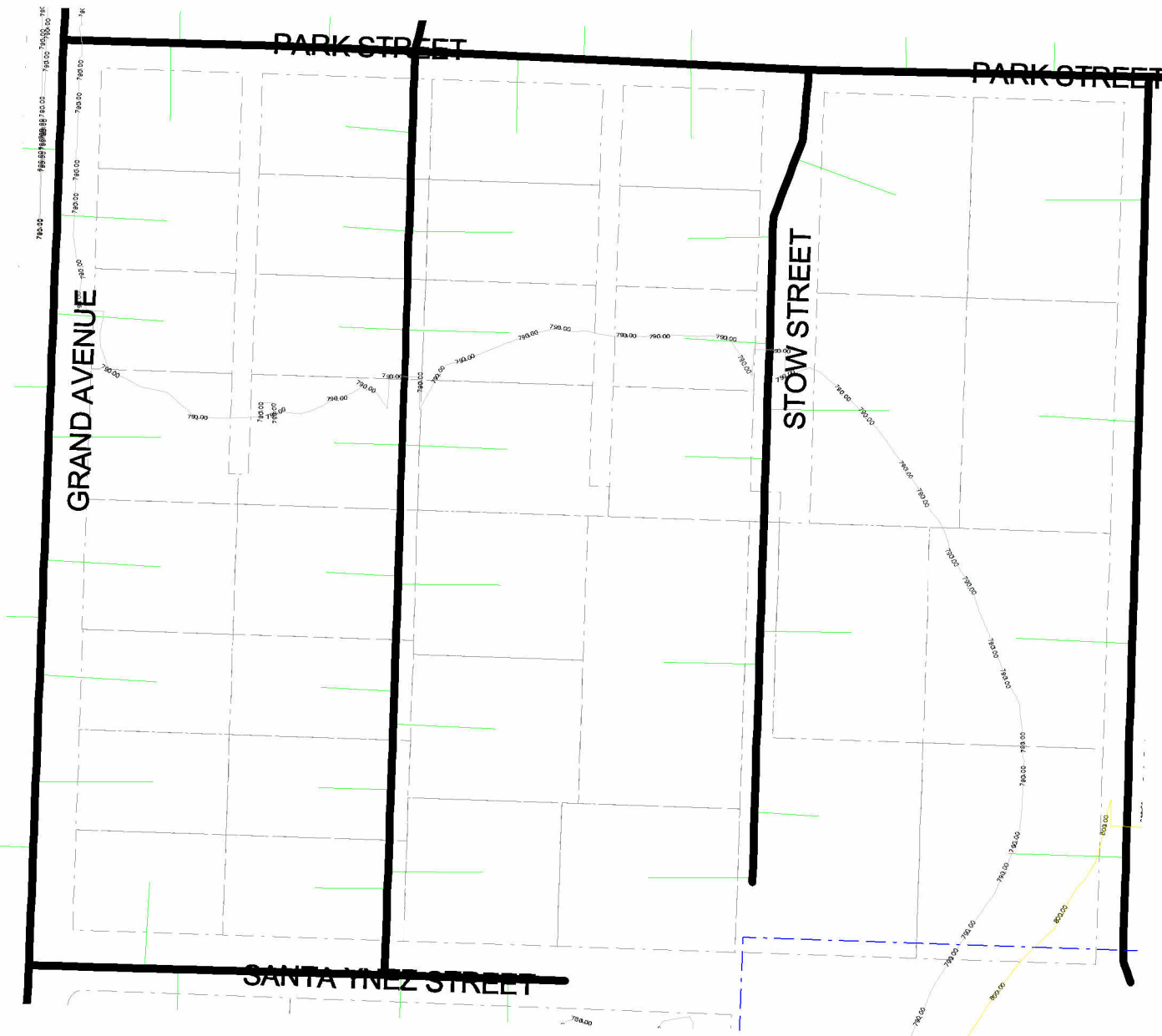
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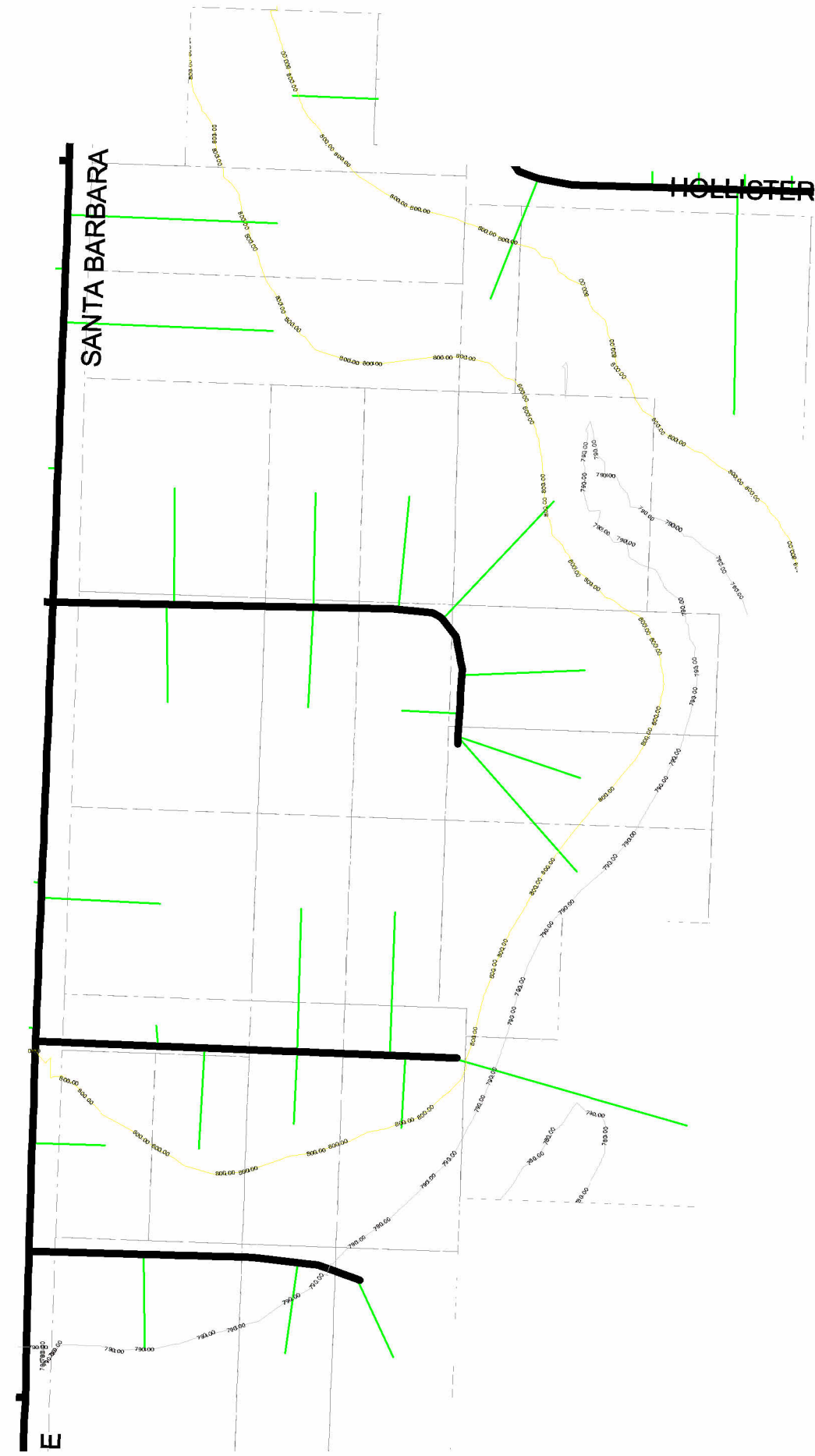
Project number 22031
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PRELIMINARY DESIGN

ZONES 1-3
C103

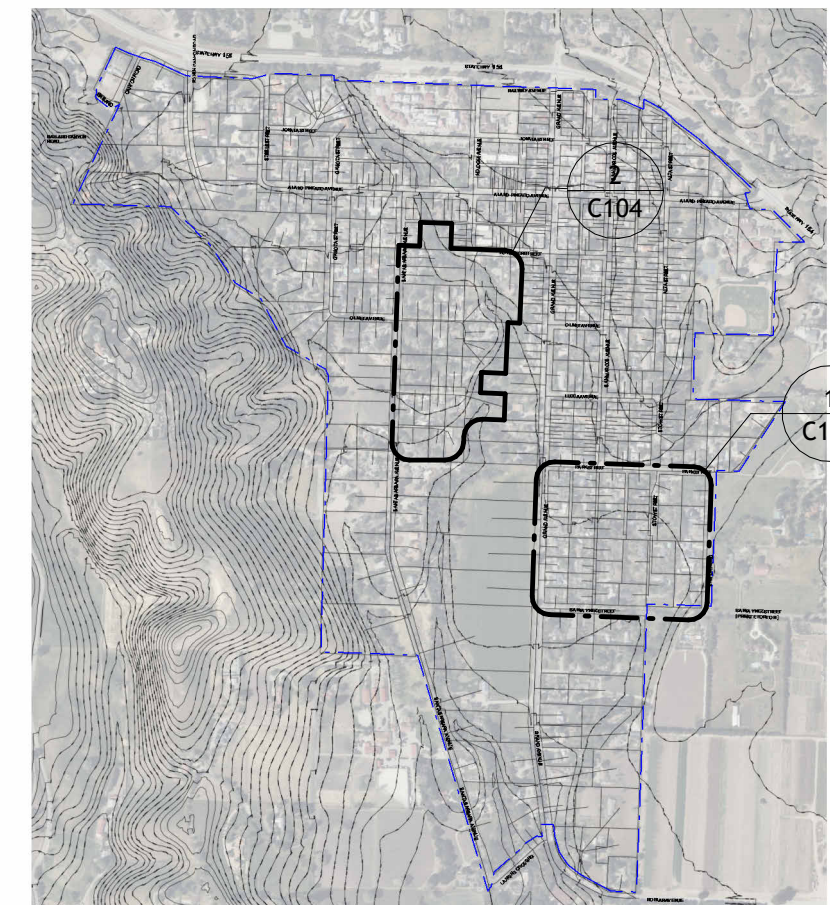


1 **ZONE 4**
1" = 160'-0"



2 **ZONE 5**
1" = 160'-0"

KEY PLAN



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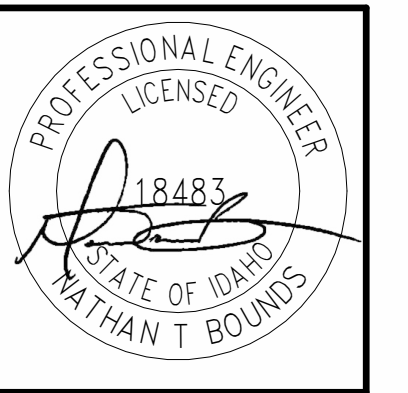
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Project number 22031
Date 5.824
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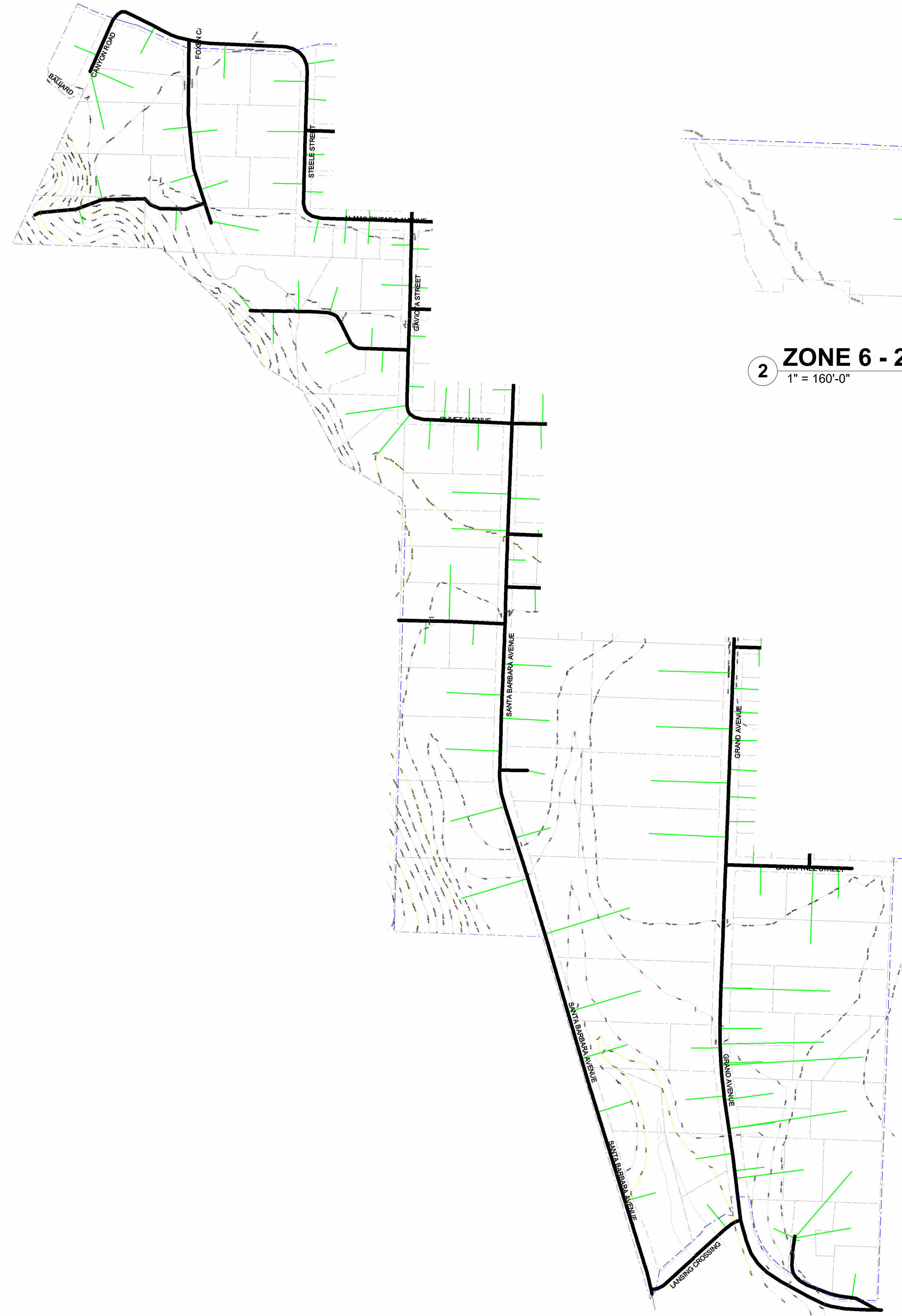
PRELIMINARY DESIGN

ZONES 4-5

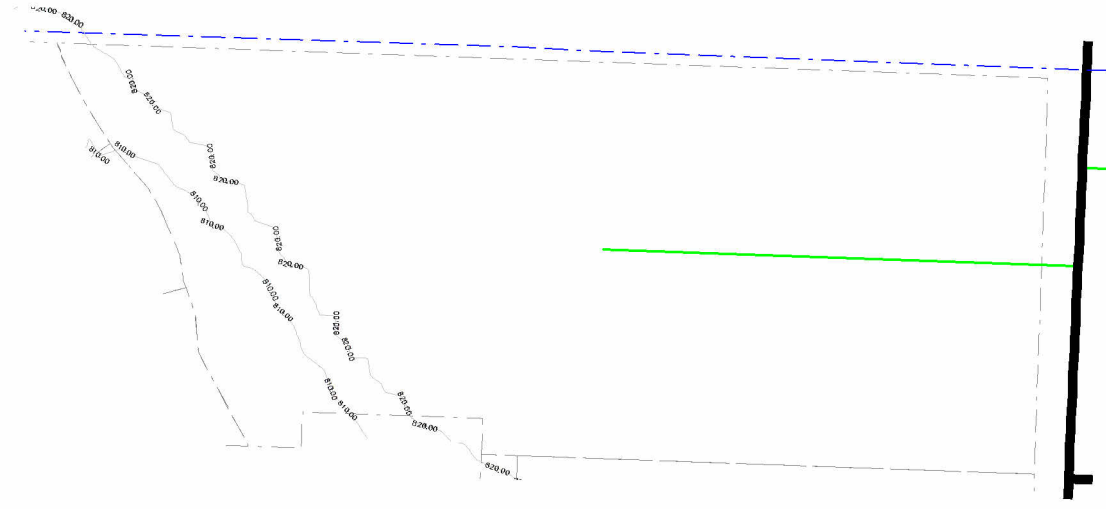
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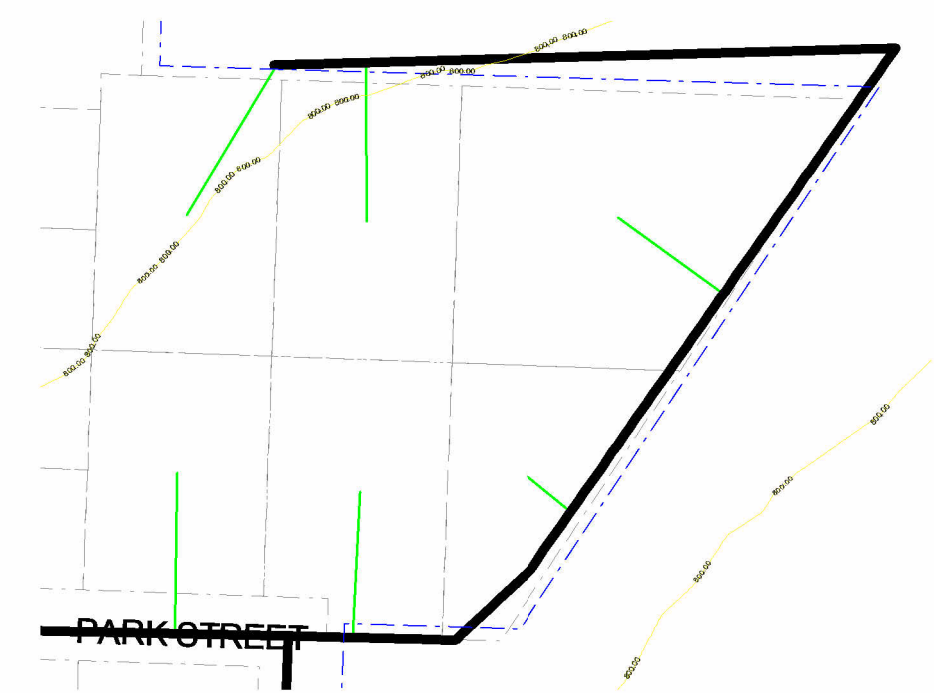
1 ZONE 6 - 1
1" = 300'-0"



2 ZONE 6 - 2
1" = 160'-0"

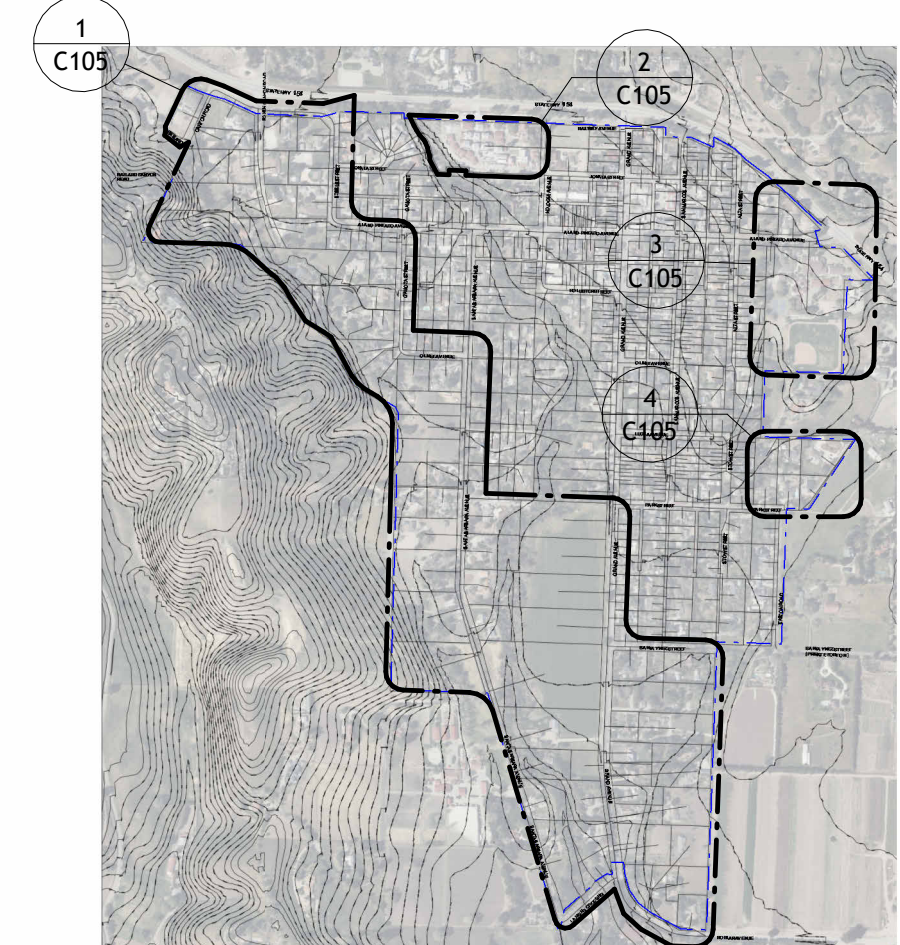


3 ZONE 6 - 3
1" = 160'-0"



4 ZONE 6 - 4
1" = 160'-0"

KEY PLAN



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ZONE 6
C105



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PRELIMINARY DESIGN

EXAMPLE OM LOT TANK DETAILS

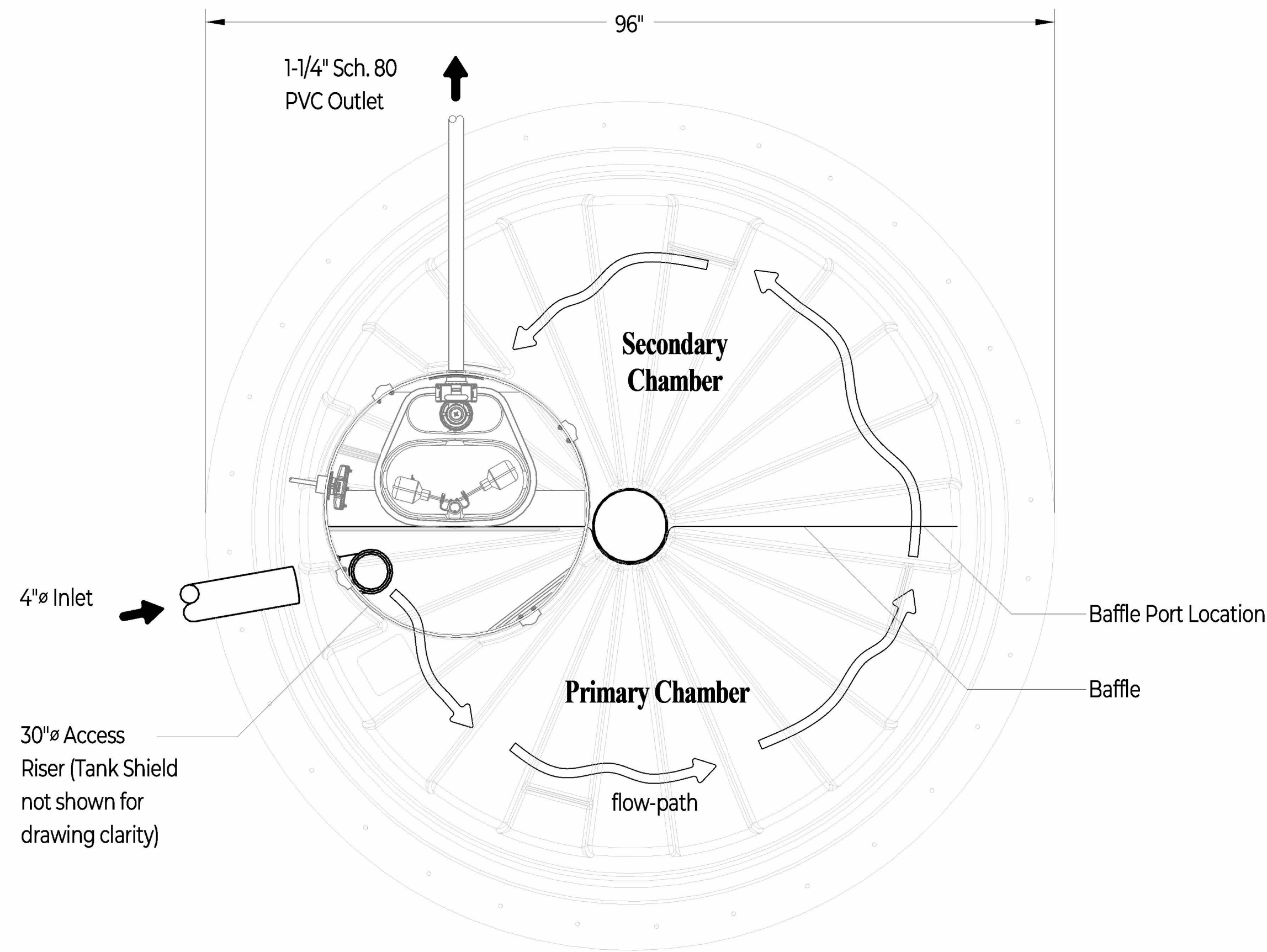
C106

TANK NOTES:

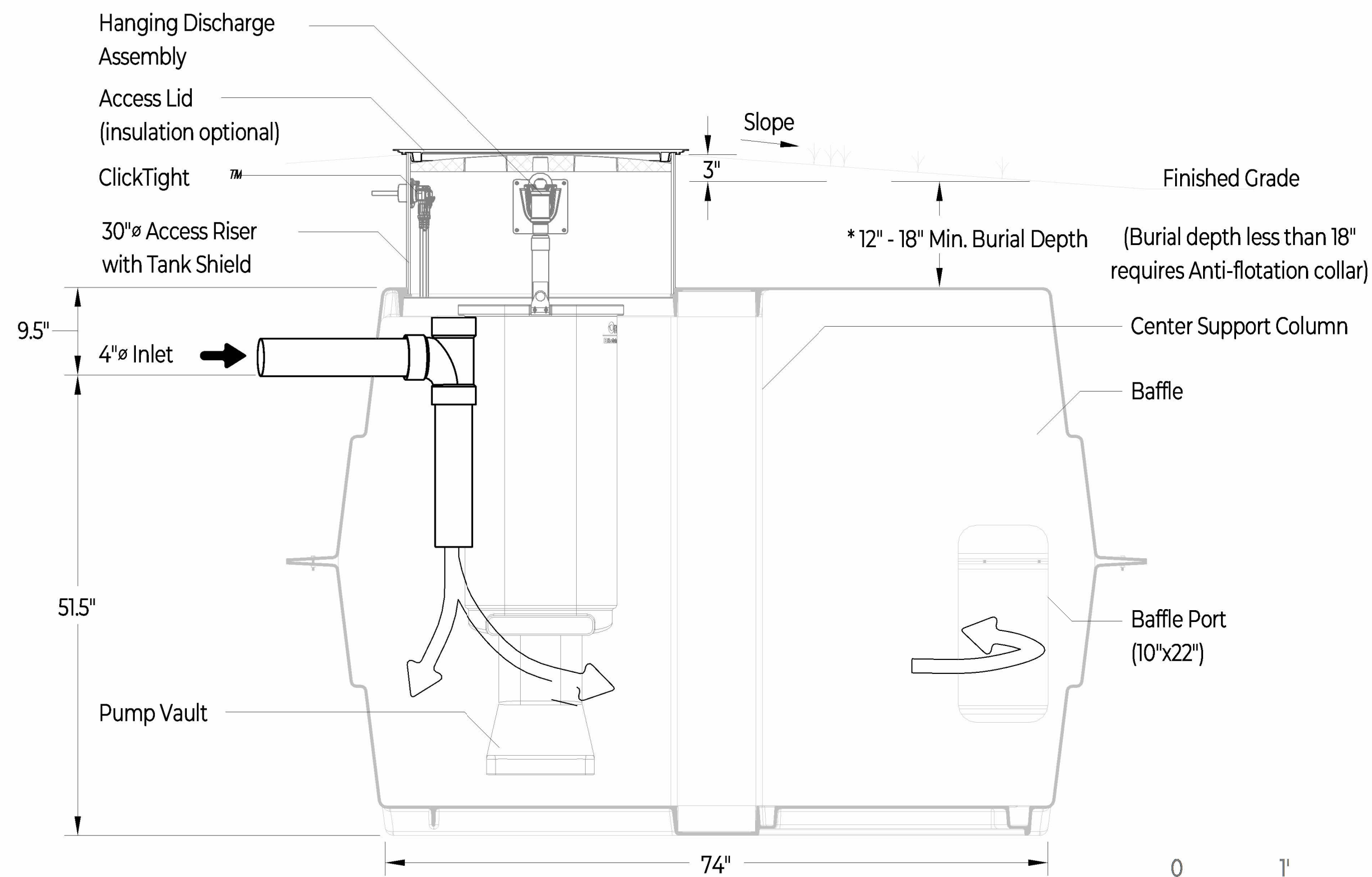
TANK VOLUMES: Total Volume: 1220 gal±
 Nominal Volume: 1000 gal± @ 48"
 Unit volume at typical Operating Depth: .20 gal/in.±

LOADS: Top = 500 psf minimum
 Lateral Load = 62.4 pcf, EFP
 Concentrated Wheel Load = 2500 lb.
 The septic tank shall be capable of withstanding long-term hydrostatic loading, in addition to the soil loading, due to a water table maintained at ground surface.
 Soil Bearing = 1000 psf (re-evaluate support base if soil bearing is less or unequal)

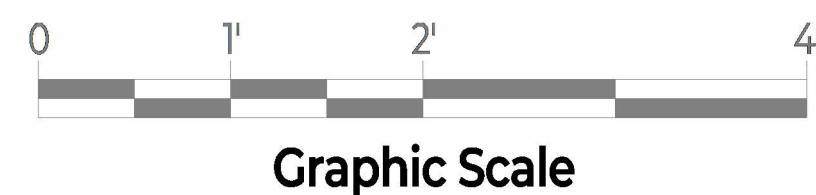
INSTALLATION: Installation, bedding, compaction, etc., shall be in "strict" compliance with the manufacturers standards and state or local rules and or guidelines. All tanks shall be set level on a minimum 4 inch thick compacted sand or approved granular bedding overlying a firm uniform base. The base shall be stable and uniform in order to ensure equal bearing across the tank bottom. Installations with 18 inches or less of ground cover may require additional buoyancy considerations as described in the manufacturers instructions. A minimum cover of 12 inches is required over the tank in areas subject to occasional light wheel loads. Refer to installation instructions Document NIM-LOS-1.



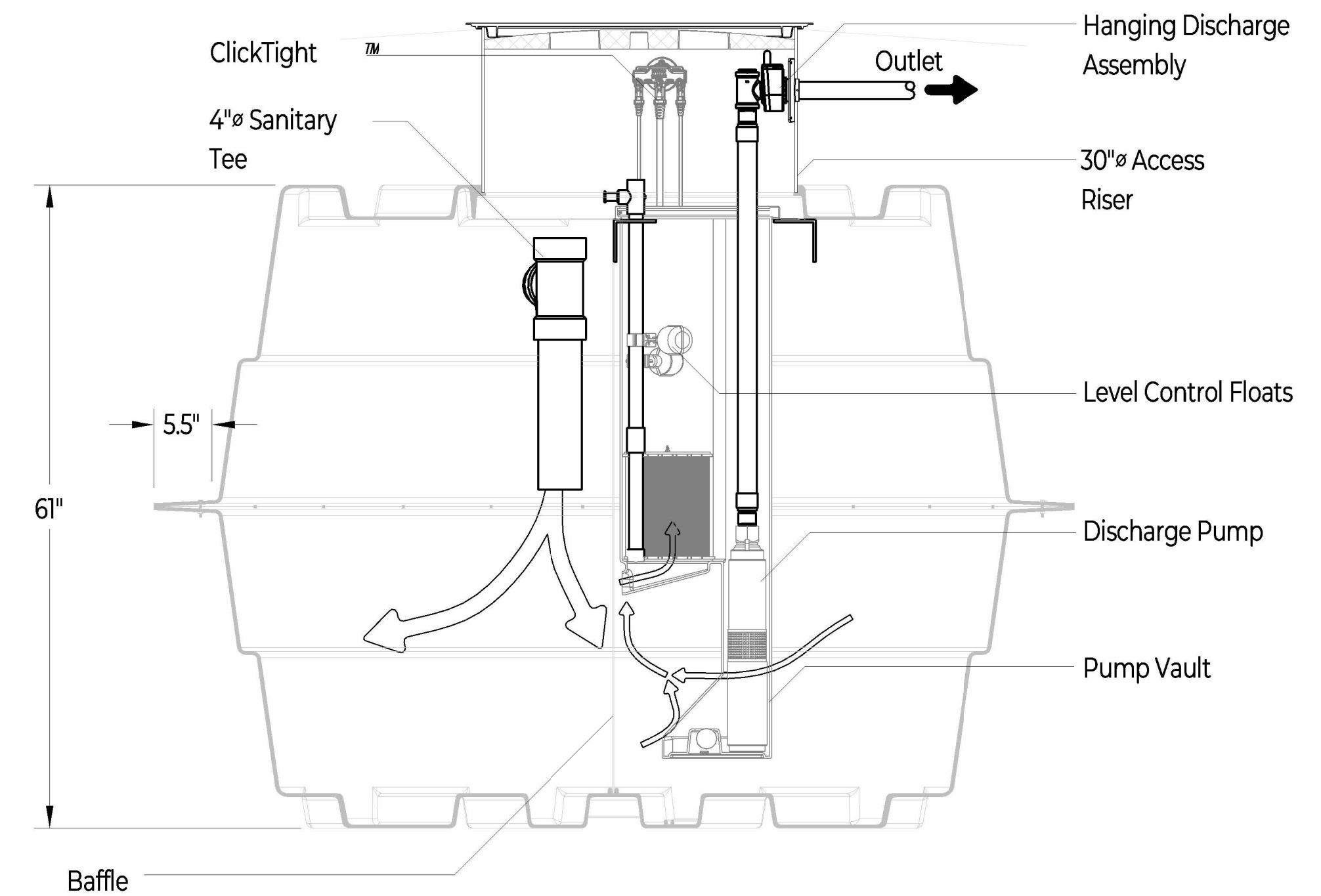
M1000 Tank Top Detail



M1000 Tank Side Detail



Inside Height Inches	Total Gallons
60	1217
54	1124
48	1006
42	881
36	744
30	601
24	460
18	324
12	200
6	83
0	0



M1000 Tank End Detail



LOS OLIVOS
 30% DESIGN PLANS
 LOS OLIVOS, CA

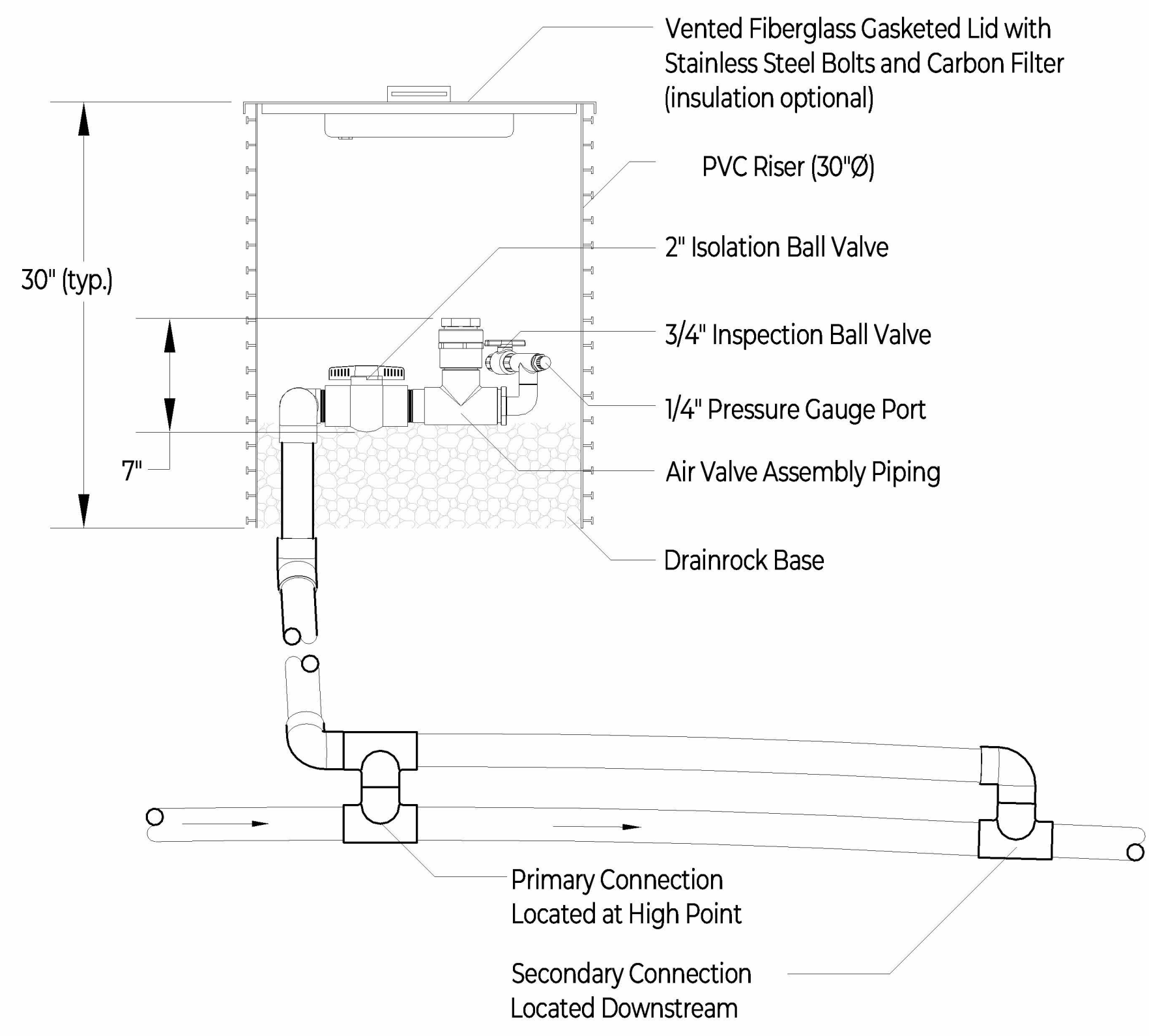
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Revision No.	Description	Date

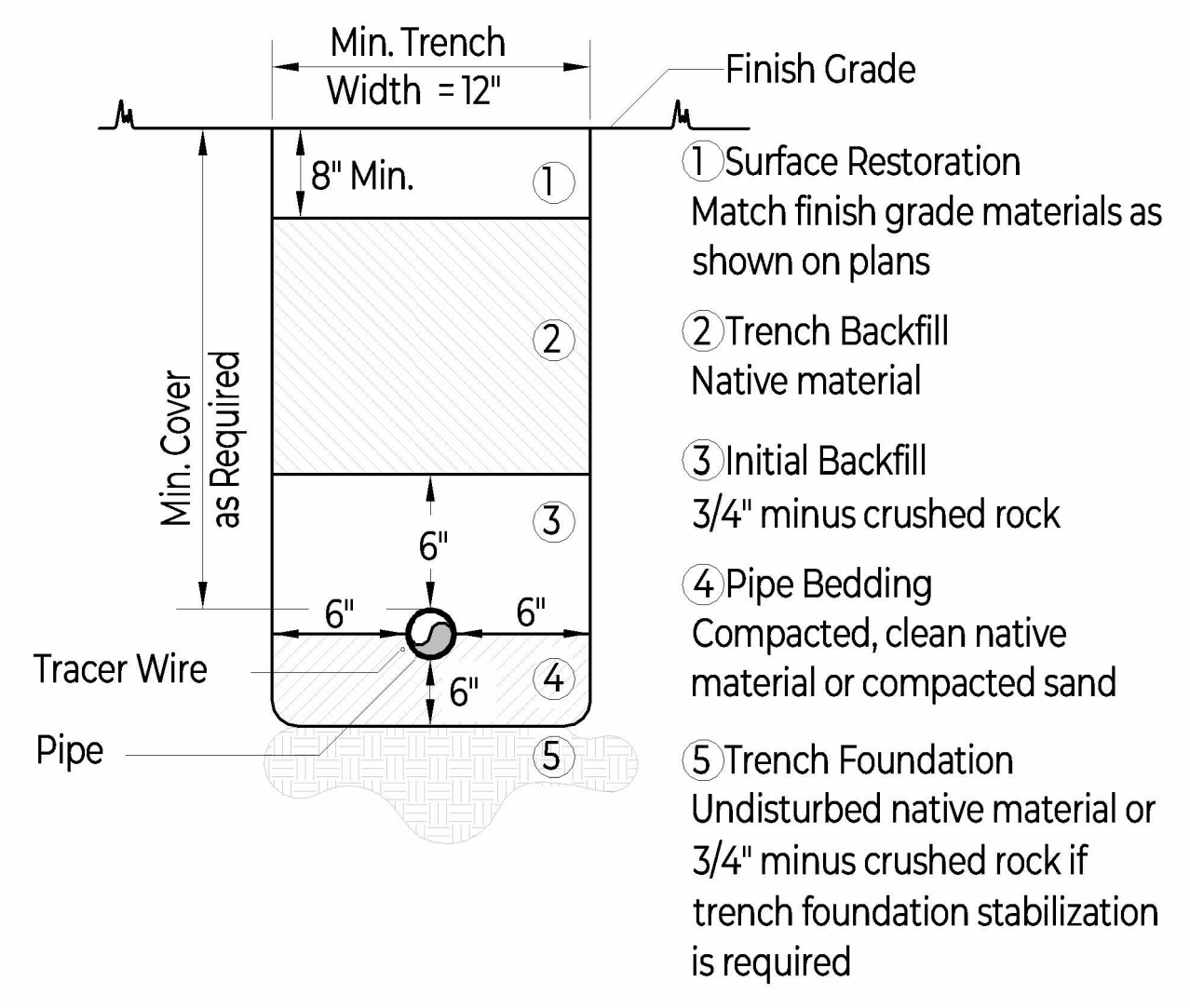
Project number: 22031
 Date: 5.8.24
 Drawn by: JS
 Checked by: NTB

PRELIMINARY DESIGN

EFFLUENT SEWER DETAILS
C107



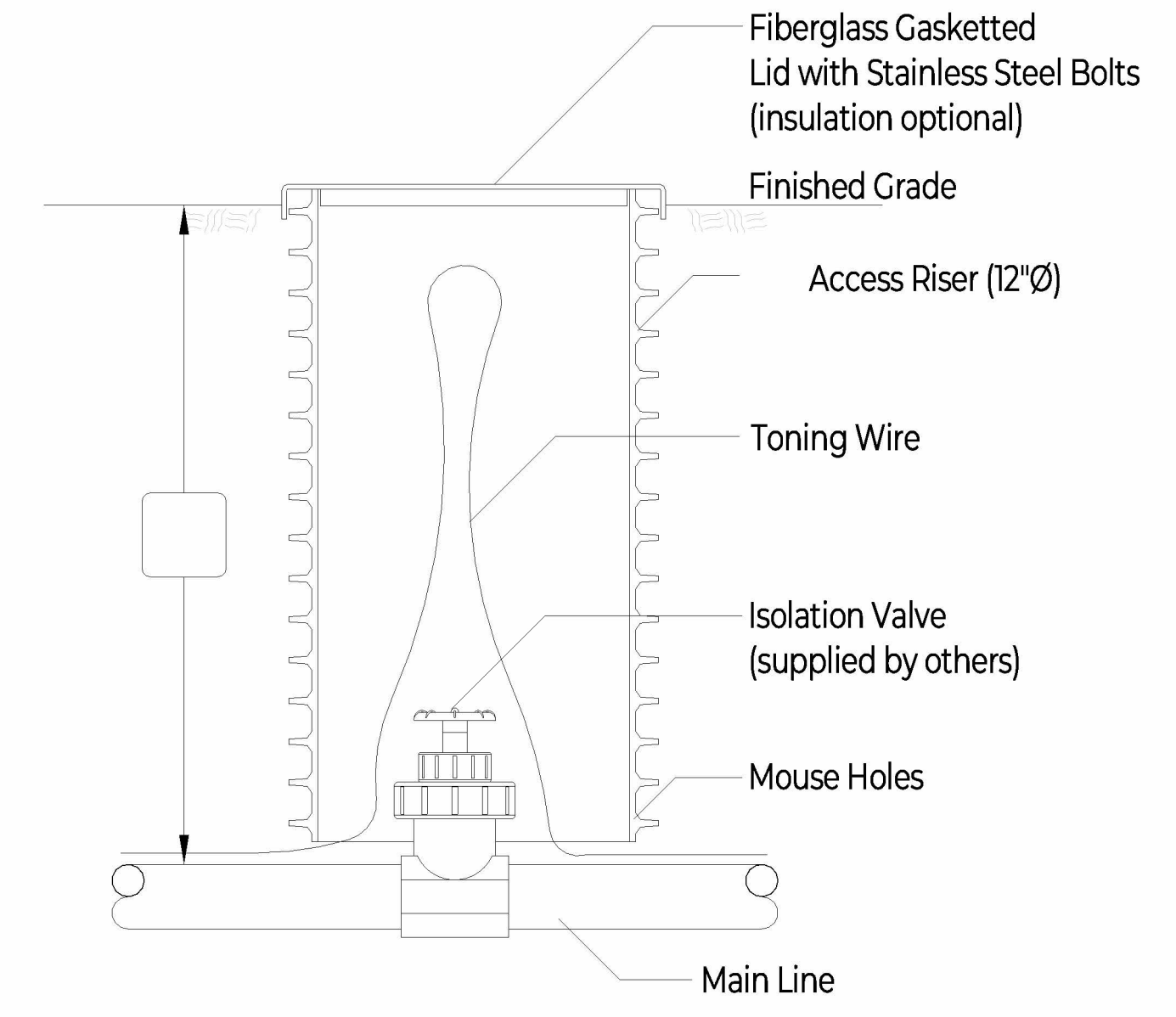
Air Valve Assembly - Manual Configuration



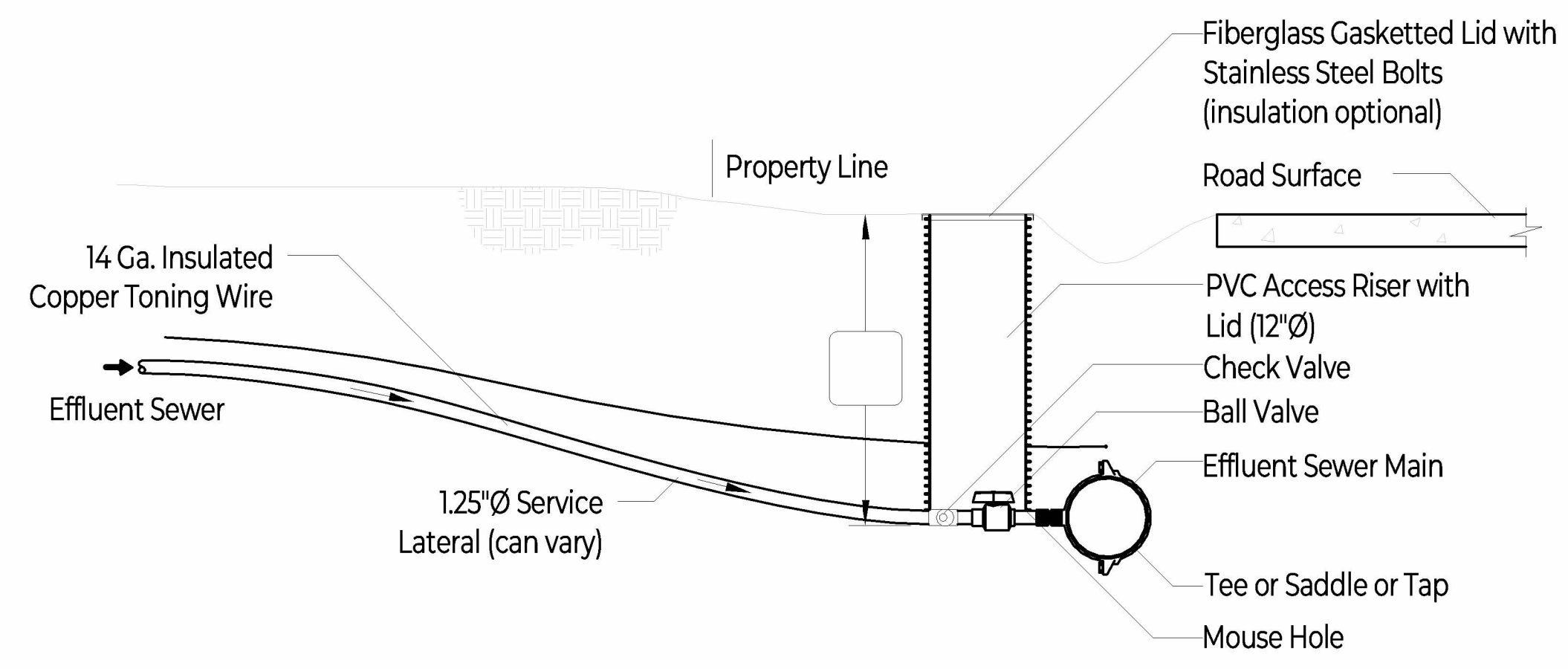
Typical Sewer Trench Details

Note:
 All dimensions shown are minimum and relative to outside of pipe bell.
Mainline Testing:
 Allowable Loss Gal/hr/1000ft

Test Pressure	3 in	4 in	6 in
150 psi	0.23	0.37	0.55
125 psi	0.25	0.34	0.50
100 psi	0.23	0.30	0.45



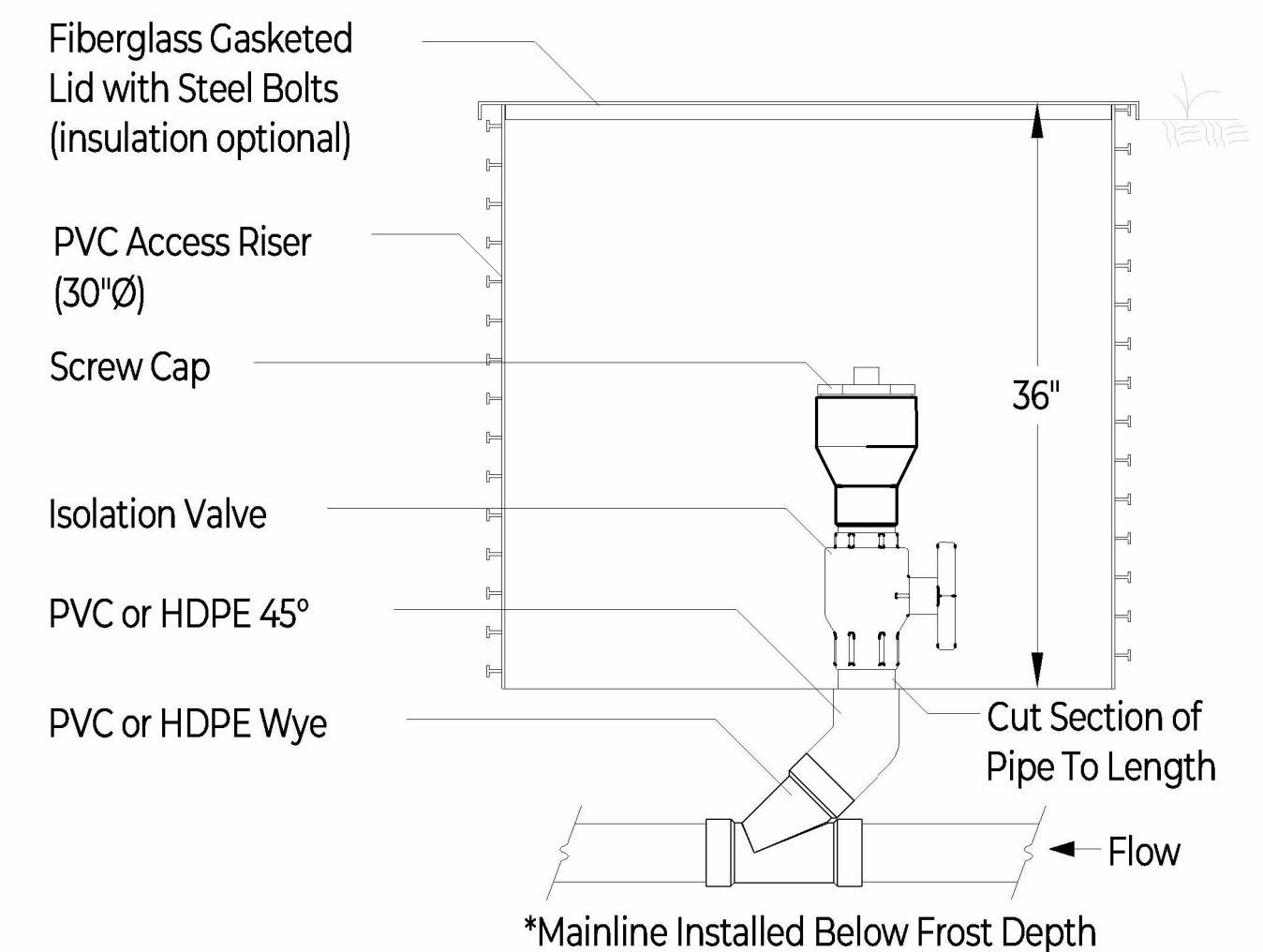
Isolation Valve Detail



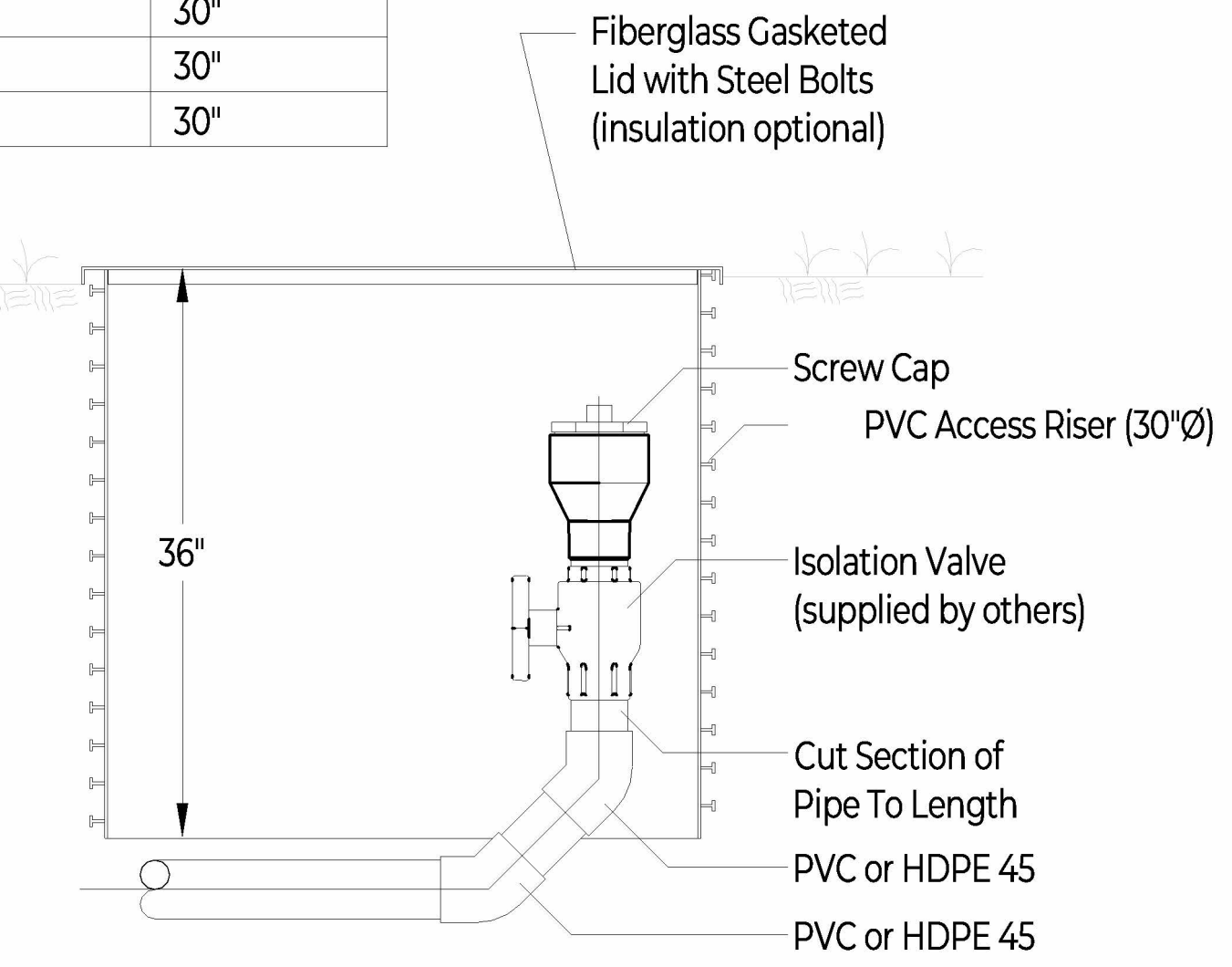
Note: All service laterals from the effluent sewer main to the property line shall be pressure tested prior to any backfilling. Typically tested with air compressor with ≈ zero loss at 60 seconds. Typically installed below frost depth. Access risers shall not be located in vehicular traffic areas. Alternative HDPE valve box as an option for warmer climates.

Effluent Sewer Service Connection

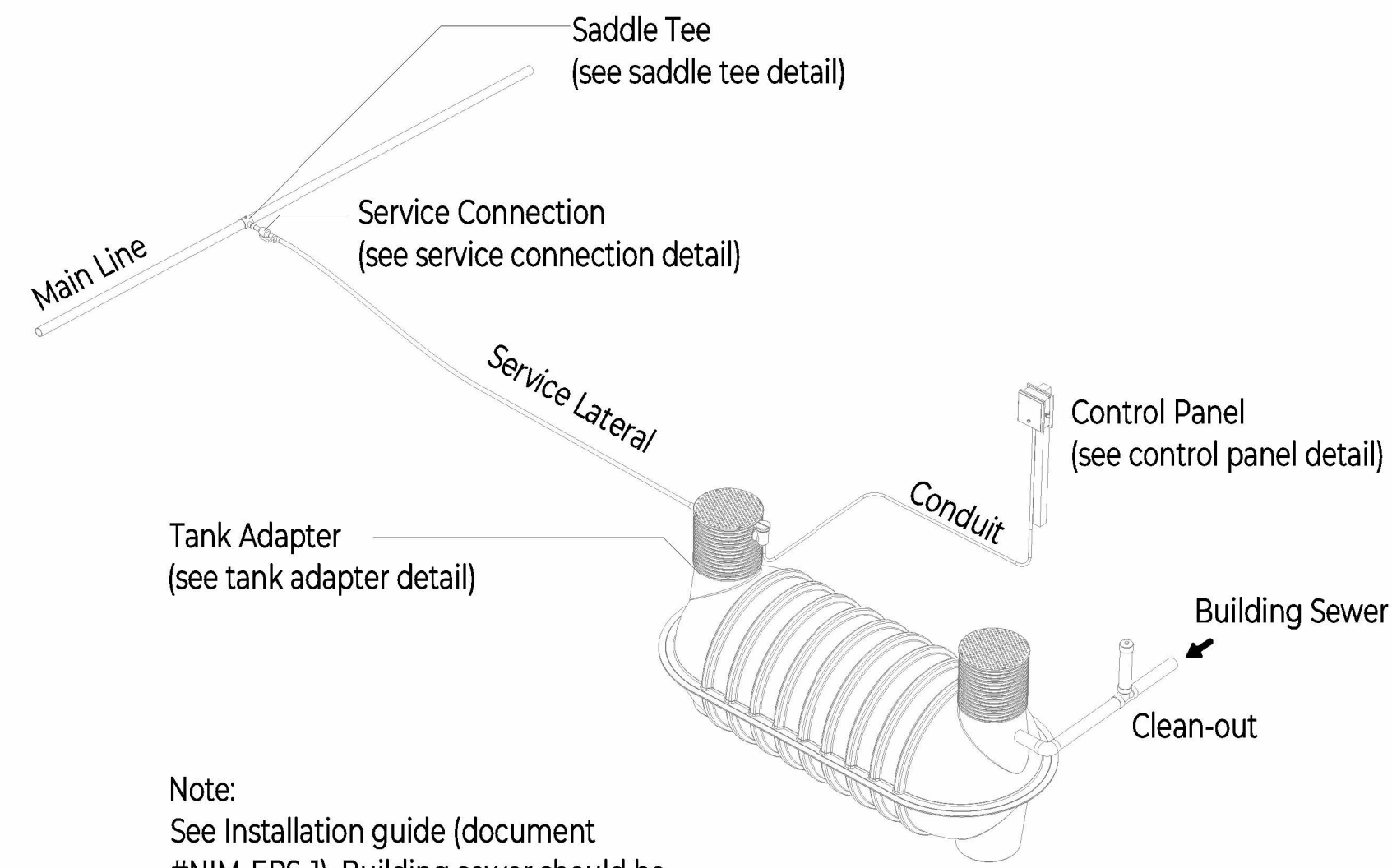
In-Line Pig Port + Clean-Out Component Sizing			
Force Main Dia.	Screw Cap Dia.	Valve & Fittings Dia.	Access Riser & Lid Dia.
2"	3"	2"	30"
3"	4"	3"	30"
4"	6"	4"	30"
6"	8"	6"	30"



In-Line Pig Port

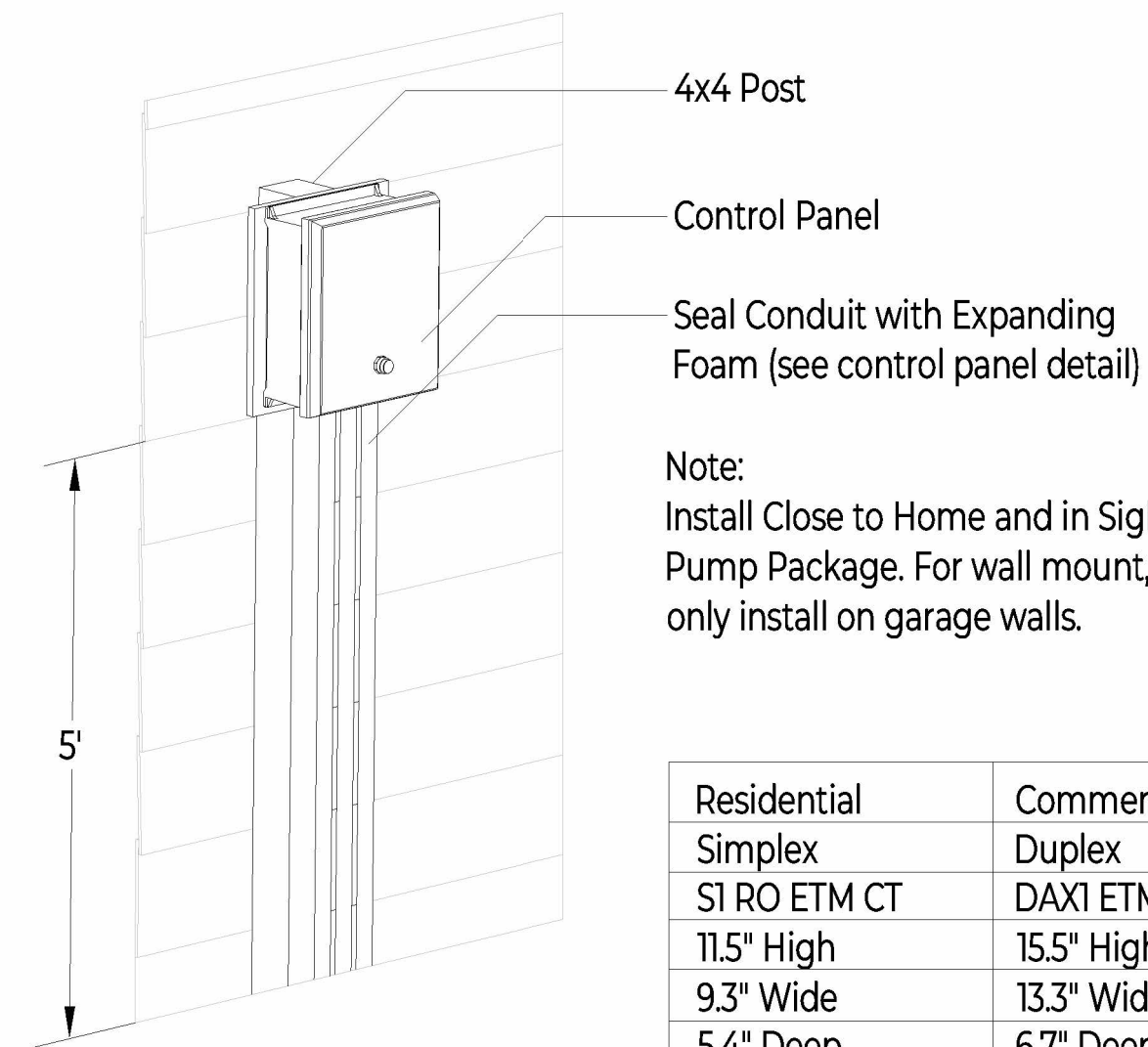


Clean-Out Detail

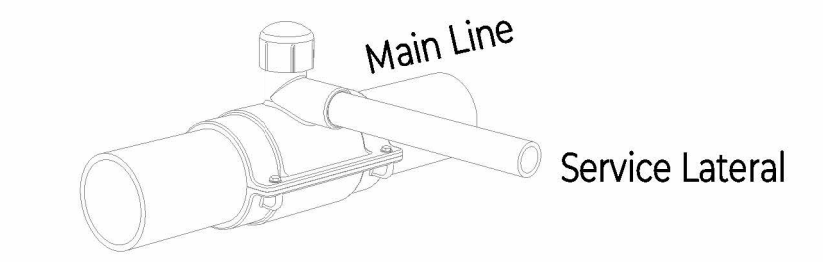


Note:
See Installation guide (document #NIM-EPS-1). Building sewer should be inspected to eliminate illegal connections & confirm pipe & fitting integrity. No storm sewer connections allowed.

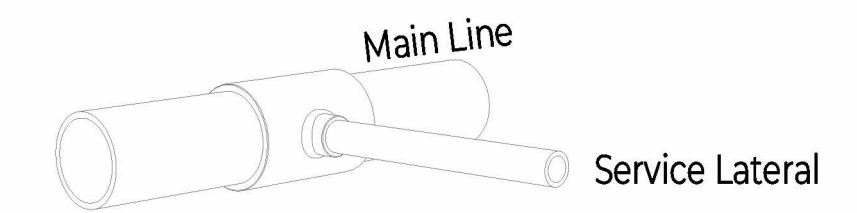
Typical Effluent Sewer Detail



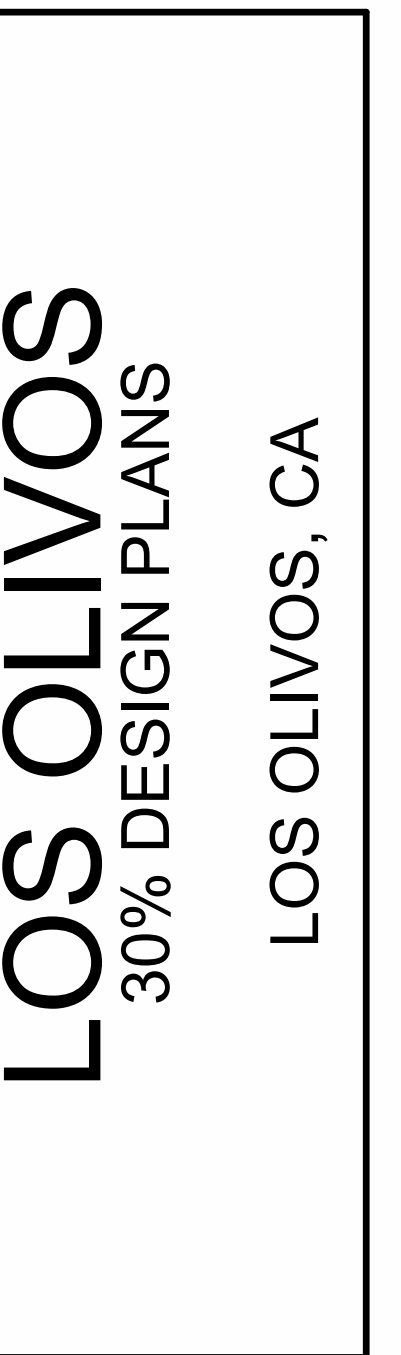
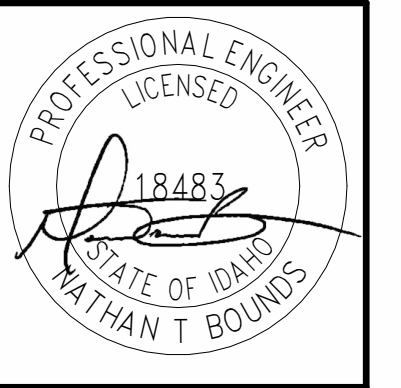
Control Panel Detail
(Wall or 4x4 Post Mount)



Hot Tap Saddle Detail



Tee Saddle Detail



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Revision		
No.	Description	Date

Project number	22031
Date	5.8.24
Drawn by	JS
Checked by	NTB

PRELIMINARY DESIGN

EFFLUENT
SEWER
DETAILS

C108

APPENDIX B

Los Olivos Wastewater Collection Option A - Gravity Collection Zone 1 & 2, Effluent Sewer Zones 3-6

Item	Description	Unit	Quantity	Unit Price	Total Cost	Responsible Lead	Notes
Overhead and Construction Support							
1	Mobilization, Demobilization, Road Permits, Bonds, & Insurance	LS	1	\$ 2,000,000	\$ 2,000,000	Unknown	Stantec Report
2	Construction Survey	LS	1	\$ 250,000	\$ 250,000	Unknown	Stantec Report
3	Pothole Existing Utilities	LS	1	\$ 250,000	\$ 250,000	Unknown	Stantec Report
4	Traffic Control	LS	1	\$ 330,000	\$ 330,000	Unknown	Should be unnecessary for Effluent zones with boring
Overhead and Construction Support Services Subtotal:					\$ 2,830,000		
Gravity Collection System Construction							
Zone 1							
5	6-inch PVC Sewer Main (<15 ft cover)	LF	8000	\$ 180	\$ 1,440,000	Unknown	Stantec Report
6	8-inch PVC Sewer Main (<15 ft cover)	LF	4000	\$ 240	\$ 960,000	Unknown	Stantec Report
7	48-inch Standard Manhole	EA	30	\$ 17,500	\$ 525,000	Unknown	Stantec Report
8	Service Connection	EA	149	\$ 12,000	\$ 1,788,000	Unknown	4 in service connection (<14 ft) @ 50', landscape repair
Zone 1 Construction Subtotal:					\$ 4,713,000		
Zone 2							
9	6-inch PVC Sewer Main (<15 ft cover)	LF	900	\$ 180	\$ 162,000	Unknown	Stantec Report
10	8-inch PVC Sewer Main (<15 ft cover)	LF	400	\$ 240	\$ 96,000	Unknown	Stantec Report
11	48-inch Standard Manhole	EA	8	\$ 17,500	\$ 140,000	Unknown	Stantec Report
12	48-inch Drop Manhole	EA	2	\$ 20,000	\$ 40,000	Unknown	Stantec Report
13	Service Connection	EA	58	\$ 12,000	\$ 696,000	Unknown	4 in service connection (<14 ft) @ 50', landscape repair
14	Lift Station (duplex pumps, 350 gpm each, 25 HP each, 25 ft deep, 8 ft diameter, site gate, fence, electrical, SCE meter, backup power)	LS	1	\$ 600,000	\$ 600,000	Unknown	Stantec Report
15	4-inch PVC Sewer Forcemain (5 ft cover, separate trench)	LF	3,000	\$ 110	\$ 330,000	Unknown	Stantec Report
Zone 2 Construction Subtotal:					\$ 2,064,000		
Gravity Collection Subtotal:					\$ 6,777,000		
Effluent Sewer Collection System Construction							
Zone 3							
16	2-inch PVC Sewer Main (<4 ft cover)	LF	1705	\$ 51	\$ 86,955	Unknown	Direct boring estimate (Ventura Drilling)
17	3-inch PVC Sewer Main (<4 ft cover)	LF	1290	\$ 54	\$ 69,660	Unknown	Direct boring estimate (Ventura Drilling)
18	4-inch VC Sewer Main (<4 ft cover)	LF	0	\$ 63	\$ -	Unknown	Direct boring estimate (Ventura Drilling)
19	Primary Treatment Tanks	EA	46	\$ 15,000	\$ 690,000	Unknown	Primary tank, service connection, repair (Biosolutions)
Zone 3 Construction Subtotal:					\$ 846,615		
Zone 4							
20	2-inch PVC Sewer Main (<4 ft cover)	LF	4133	\$ 51	\$ 210,783	Unknown	Direct boring estimate (Ventura Drilling)
21	3-inch PVC Sewer Main (<4 ft cover)	LF	0	\$ 54	\$ -	Unknown	Direct boring estimate (Ventura Drilling)
22	4-inch VC Sewer Main (<4 ft cover)	LF	900	\$ 63	\$ 56,700	Unknown	Direct boring estimate (Ventura Drilling)
23	Primary Treatment Tanks	EA	43	\$ 15,000	\$ 645,000	Unknown	Primary tank, service connection, repair (Biosolutions)
Zone 4 Construction Subtotal:					\$ 912,483		
Zone 5							
24	2-inch PVC Sewer Main (<4 ft cover)	LF	1200	\$ 51	\$ 61,200	Unknown	Direct boring estimate (Ventura Drilling)
25	3-inch PVC Sewer Main (<4 ft cover)	LF	1321	\$ 54	\$ 71,334	Unknown	Direct boring estimate (Ventura Drilling)
26	4-inch VC Sewer Main (<4 ft cover)	LF	0	\$ 63	\$ -	Unknown	Direct boring estimate (Ventura Drilling)
27	Primary Treatment Tanks	Each	26	\$ 15,000	\$ 390,000	Unknown	Primary tank, service connection, repair (Biosolutions)
Zone 5 Construction Subtotal:					\$ 522,534		
Zone 6							
28	2-inch PVC Sewer Main (<4 ft cover)	LF	4494	\$ 51	\$ 229,194	Unknown	Direct boring estimate (Ventura Drilling)
29	3-inch PVC Sewer Main (<4 ft cover)	LF	2214	\$ 54	\$ 119,556	Unknown	Direct boring estimate (Ventura Drilling)
30	4-inch VC Sewer Main (<4 ft cover)	LF	2000	\$ 63	\$ 126,000	Unknown	Direct boring estimate (Ventura Drilling)
31	Primary Treatment Tanks	Each	74	\$ 15,000	\$ 1,110,000	Unknown	Primary tank, service connection, repair (Biosolutions)
Zone 6 Construction Subtotal:					\$ 1,584,750		
Effluent Collection Subtotal:					\$ 3,866,382		
Collection Construction Subtotal:					\$ 13,473,382		
32	Construction Contingency (30%)				\$ 4,042,015		
Collection Construction & Contingency Total:					\$ 17,515,397		
Engineering & Construction Management							
33	Final Design Engineering & Support	LS	1	\$ 2,627,309	\$ 2,627,309	Unknown	Assume 15% of construction
34	Construction Management and Inspections	LS	1	\$ 2,627,309	\$ 2,627,309	Unknown	Assume 15% of construction
Engineering & Construction Management Subtotal:					\$ 5,254,619		
Option #1 Collection System Total:					\$ 22,770,016		
Costs to be Provided by District							
35	Legal and Administration	LS	1	\$ 250,000	\$ 250,000	District	Assumed
36	Property Acquisition for Lift Station	AC	0.4	\$ 1,000,000	\$ 400,000	District	Assume \$1M/Acre, 0.4 acres assumed
37	Property Acquisition for Easements	AC	2.11	\$ 1,000,000	\$ 2,110,000	District	Assume \$1M/Acre, placeholder to match Stantec Estimate
District Costs Subtotal:					\$ 2,760,000		
Option #1 Collection System Total Costs:					\$ 25,530,016		

Los Olivos Wastewater Collection Option B - Effluent Sewer Zones 1-6

Item	Description	Unit	Quantity	Unit Price	Total Cost	Responsible Lead	Notes
Overhead and Construction Support							
1	Mobilization, Demobilization, Road Permits, Bonds, & Insurance	LS	1	\$ 2,000,000	\$ 2,000,000	Unknown	Stantec Report
2	Construction Survey	LS	1	\$ 250,000	\$ 250,000	Unknown	Stantec Report
3	Pothole Existing Utilities	LS	1	\$ 250,000	\$ 250,000	Unknown	Stantec Report
4	Traffic Control	LS	1	\$ 330,000	\$ 330,000	Unknown	Should be unnecessary for Effluent zones with boring
Overhead and Construction Support Services Subtotal:					\$ 2,830,000		
Effluent Sewer Collection System Construction							
Zone 1							
5	2-inch PVC Sewer Main (<4 ft cover)	LF	5113	\$ 51	\$ 260,763	Unknown	Direct boring estimate
6	3-inch PVC Sewer Main (<4 ft cover)	LF	2989	\$ 54	\$ 161,406	Unknown	Direct boring estimate
7	4-inch PVC Sewer Main (<4 ft cover)	LF	0	\$ 63	\$ -	Unknown	Direct boring estimate
8	Primary Treatment Tanks	Each	149	\$ 20,000	\$ 2,980,000	Unknown	Primary tank, service connection, landscape repair
Zone 1 Construction Subtotal:					\$ 3,402,169		
Zone 2							
9	2-inch PVC Sewer Main (<4 ft cover)	LF	2023	\$ 51	\$ 103,173	Unknown	Direct boring estimate
10	3-inch PVC Sewer Main (<4 ft cover)	LF	700	\$ 54	\$ 37,800	Unknown	Direct boring estimate
11	4-inch PVC Sewer Main (<4 ft cover)	LF	0	\$ 63	\$ -	Unknown	Direct boring estimate
12	Primary Treatment Tanks	Each	58	\$ 15,000	\$ 870,000	Unknown	Primary tank, service connection, landscape repair
Zone 2 Construction Subtotal:					\$ 1,010,973		
Zone 3							
13	2-inch PVC Sewer Main (<4 ft cover)	LF	1705	\$ 51	\$ 86,955	Unknown	Direct boring estimate
14	3-inch PVC Sewer Main (<4 ft cover)	LF	1290	\$ 54	\$ 69,660	Unknown	Direct boring estimate
15	4-inch PVC Sewer Main (<4 ft cover)	LF	0	\$ 63	\$ -	Unknown	Direct boring estimate
16	Primary Treatment Tanks	Each	46	\$ 15,000	\$ 690,000	Unknown	Primary tank, service connection, landscape repair
Zone 3 Construction Subtotal:					\$ 846,615		
Zone 4							
17	2-inch PVC Sewer Main (<4 ft cover)	LF	4133	\$ 51	\$ 210,783	Unknown	Direct boring estimate (Ventura Drilling)
18	3-inch PVC Sewer Main (<4 ft cover)	LF	0	\$ 54	\$ -	Unknown	Direct boring estimate (Ventura Drilling)
19	4-inch PVC Sewer Main (<4 ft cover)	LF	900	\$ 63	\$ 56,700	Unknown	Direct boring estimate (Ventura Drilling)
20	Primary Treatment Tanks	Each	43	\$ 15,000	\$ 645,000	Unknown	Primary tank, service connection, repair (Biosolutions)
Zone 4 Construction Subtotal:					\$ 912,483		
Zone 5							
21	2-inch PVC Sewer Main (<4 ft cover)	LF	1200	\$ 51	\$ 61,200	Unknown	Direct boring estimate (Ventura Drilling)
22	3-inch PVC Sewer Main (<4 ft cover)	LF	1321	\$ 54	\$ 71,334	Unknown	Direct boring estimate (Ventura Drilling)
23	4-inch PVC Sewer Main (<4 ft cover)	LF	0	\$ 63	\$ -	Unknown	Direct boring estimate (Ventura Drilling)
24	Primary Treatment Tanks	Each	26	\$ 15,000	\$ 390,000	Unknown	Primary tank, service connection, repair (Biosolutions)
Zone 5 Construction Subtotal:					\$ 522,534		
Zone 6							
25	2-inch PVC Sewer Main (<4 ft cover)	LF	4494	\$ 51	\$ 229,194	Unknown	Direct boring estimate (Ventura Drilling)
26	3-inch PVC Sewer Main (<4 ft cover)	LF	2214	\$ 54	\$ 119,556	Unknown	Direct boring estimate (Ventura Drilling)
27	4-inch PVC Sewer Main (<4 ft cover)	LF	2000	\$ 63	\$ 126,000	Unknown	Direct boring estimate (Ventura Drilling)
28	Primary Treatment Tanks	Each	74	\$ 15,000	\$ 1,110,000	Unknown	Primary tank, service connection, repair (Biosolutions)
Zone 6 Construction Subtotal:					\$ 1,584,750		
Effluent Collection Subtotal:					\$ 8,279,524		
Collection Construction Subtotal:					\$ 11,109,524		
29	Construction Contingency (30%)				\$ 3,332,857		
Collection Construction & Contingency Total:					\$ 14,442,381		
Engineering & Construction Management							
30	Final Design Engineering & Support	LS	1	\$ 2,166,357	\$ 2,166,357	Unknown	Assume 15% of construction
31	Construction Management and Inspections	LS	1	\$ 2,166,357	\$ 2,166,357	Unknown	Assume 15% of construction
Engineering & Construction Management Subtotal:					\$ 4,332,714		
Option #2 Collection System Total:					\$ 18,775,096		
Costs to be Provided by District							
32	Legal and Administration	LS	1	\$ 250,000	\$ 250,000	District	Assume
33	Property Acquisition for Lift Station	AC	0	\$ -	\$ -	District	Assume \$1M/Acre, Not needed with option #2
34	Property Acquisition for Easements	AC	2.11	\$ 1,000,000	\$ 2,110,000	District	Assume \$1M/Acre, placeholder to match Stantec Estimate
District Costs Subtotal:					\$ 2,360,000		
Option #2 Collection System Total Costs:					\$ 21,135,096		

Los Olivos Wastewater Collection Option C - Gravity Collection Zone 1 & 2, Effluent Sewer Zones 3-5, Alt Onsite Zone 6

Item	Description	Unit	Quantity	Unit Price	Total Cost	Responsible Lead	Notes
Overhead and Construction Support							
1	Mobilization, Demobilization, Road Permits, Bonds, & Insurance	LS	1	\$ 2,000,000	\$ 2,000,000	Unknown	Stantec Report
2	Construction Survey	LS	1	\$ 250,000	\$ 250,000	Unknown	Stantec Report
3	Pothole Existing Utilities	LS	1	\$ 250,000	\$ 250,000	Unknown	Stantec Report
4	Traffic Control	LS	1	\$ 330,000	\$ 330,000	Unknown	Should be unnecessary for Effluent zones with boring
Overhead and Construction Support Services Subtotal:					\$ 2,830,000		
Gravity Collection System Construction							
Zone 1							
5	6-inch PVC Sewer Main (<15 ft cover)	LF	8000	\$ 180	\$ 1,440,000	Unknown	Stantec Report
6	8-inch PVC Sewer Main (<15 ft cover)	LF	4000	\$ 240	\$ 960,000	Unknown	Stantec Report
7	48-inch Standard Manhole	EA	30	\$ 17,500	\$ 525,000	Unknown	Stantec Report
8	Service Connection	EA	149	\$ 12,000	\$ 1,788,000	Unknown	4 in service connection (<14 ft) @ 50', landscape repair
Zone 1 Construction Subtotal:					\$ 4,713,000		
Zone 2							
9	6-inch PVC Sewer Main (<15 ft cover)	LF	900	\$ 180	\$ 162,000	Unknown	Stantec Report
10	8-inch PVC Sewer Main (<15 ft cover)	LF	400	\$ 240	\$ 96,000	Unknown	Stantec Report
11	48-inch Standard Manhole	EA	8	\$ 17,500	\$ 140,000	Unknown	Stantec Report
12	48-inch Drop Manhole	EA	2	\$ 20,000	\$ 40,000	Unknown	Stantec Report
13	Service Connection	EA	58	\$ 12,000	\$ 696,000	Unknown	4 in service connection (<14 ft) @ 50', landscape repair
14	Lift Station (duplex pumps, 350 gpm each, 25 HP each, 25 ft deep, 8 ft diameter, site gate, fence, electrical, SCE meter, backup power)	LS	1	\$ 600,000	\$ 600,000	Unknown	Stantec Report
15	4-inch PVC Sewer Forcemain (5 ft cover, separate trench)	LF	3,000	\$ 110	\$ 330,000	Unknown	Stantec Report
Zone 2 Construction Subtotal:					\$ 2,064,000		
Gravity Collection Subtotal:					\$ 6,777,000		
Effluent Sewer Collection System Construction							
Zone 3							
16	2-inch PVC Sewer Main (<4 ft cover)	LF	1705	\$ 51	\$ 86,955	Unknown	Direct boring estimate (Ventura Drilling)
17	3-inch PVC Sewer Main (<4 ft cover)	LF	1290	\$ 54	\$ 69,660	Unknown	Direct boring estimate (Ventura Drilling)
18	4-inch VC Sewer Main (<4 ft cover)	LF	0	\$ 63	\$ -	Unknown	Direct boring estimate (Ventura Drilling)
19	Primary Treatment Tanks	Each	46	\$ 15,000	\$ 690,000	Unknown	Primary tank, service connection, repair (Biosolutions)
Zone 3 Construction Subtotal:					\$ 846,615		
Zone 4							
20	2-inch PVC Sewer Main (<4 ft cover)	LF	4133	\$ 51	\$ 210,783	Unknown	Direct boring estimate (Ventura Drilling)
21	3-inch PVC Sewer Main (<4 ft cover)	LF	0	\$ 54	\$ -	Unknown	Direct boring estimate (Ventura Drilling)
22	4-inch VC Sewer Main (<4 ft cover)	LF	900	\$ 63	\$ 56,700	Unknown	Direct boring estimate (Ventura Drilling)
23	Primary Treatment Tanks	Each	43	\$ 15,000	\$ 645,000	Unknown	Primary tank, service connection, repair (Biosolutions)
Zone 4 Construction Subtotal:					\$ 912,483		
Zone 5							
24	2-inch PVC Sewer Main (<4 ft cover)	LF	1200	\$ 51	\$ 61,200	Unknown	Direct boring estimate (Ventura Drilling)
25	3-inch PVC Sewer Main (<4 ft cover)	LF	1321	\$ 54	\$ 71,334	Unknown	Direct boring estimate (Ventura Drilling)
26	4-inch VC Sewer Main (<4 ft cover)	LF	2000	\$ 63	\$ 126,000	Unknown	Direct boring estimate (Ventura Drilling)
27	Primary Treatment Tanks	Each	26	\$ 15,000	\$ 390,000	Unknown	Primary tank, service connection, repair (Biosolutions)
Zone 5 Construction Subtotal:					\$ 648,534		
Effluent Collection Subtotal:					\$ 2,407,632		
Collection Construction Subtotal:					\$ 12,014,632		
28	Construction Contingency (30%)				\$ 3,604,390		
Collection Construction & Contingency Total					\$ 15,619,022		
Zone 6							
29	Individual Advanced Onsite Systems	LF	74	\$ 70,000	\$ 5,180,000	Unknown	Assumed TN requirement of 20 mg/L
Zone 6 Construction Subtotal:					\$ 5,180,000		
Advanced Onsite Systems Subtotal:					\$ 5,180,000		
30	Construction Contingency (30%)				\$ 1,554,000		
Advanced Onsite Collection Construction Total					\$ 6,734,000		
Engineering & Construction Management							
30	Final Design Engineering & Support	LS	1	\$ 2,342,853	\$ 2,342,853	Unknown	Assume 15% of construction (Advanced Onsite Not Included)
31	Construction Management and Inspections	LS	1	\$ 2,342,853	\$ 2,342,853	Unknown	Assume 15% of construction (Advanced Onsite Not Included)
Engineering & Construction Management Subtotal:					\$ 4,685,706		
Option #3 Collection & Advanced Onsite System Total:					\$ 27,038,728		
Costs to be Provided by District							
32	Legal and Administration	LS	1	\$ 250,000	\$ 250,000	District	Assumed
33	Property Acquisition for Lift Station	AC	0.4	\$ 1,000,000	\$ 400,000	District	Assume \$1M/Acre, 0.4 acres assumed
34	Property Acquisition for Easements	AC	2.11	\$ 1,000,000	\$ 2,110,000	District	Assume \$1M/Acre, placeholder to match Stantec Estimate
District Costs Subtotal:					\$ 2,760,000		
Option #3 Gravity & Effluent Collection Systems Total Costs:					\$ 23,064,728		
Option #3 Collection & Advanced Onsite Systems Total Costs:					\$ 29,798,728		

Los Olivos Wastewater Collection Option D - Effluent Sewer Zones 1-5, Alt Onsite Zone 6

Item	Description	Unit	Quantity	Unit Price	Total Cost	Responsible Lead	Notes
Overhead and Construction Support							
1	Mobilization, Demobilization, Road Permits, Bonds, & Insurance	LS	1	\$ 2,000,000	\$ 2,000,000	Unknown	Stantec Report
2	Construction Survey	LS	1	\$ 250,000	\$ 250,000	Unknown	Stantec Report
3	Pothole Existing Utilities	LS	1	\$ 250,000	\$ 250,000	Unknown	Stantec Report
4	Traffic Control	LS	1	\$ 330,000	\$ 330,000	Unknown	Should be unnecessary for Effluent zones with boring
Overhead and Construction Support Services Subtotal:					\$ 2,830,000		
Effluent Sewer Collection System Construction							
Zone 1							
5	2-inch PVC Sewer Main (<4 ft cover)	LF	5113	\$ 51	\$ 260,763	Unknown	Direct boring estimate
6	3-inch PVC Sewer Main (<4 ft cover)	LF	2989	\$ 54	\$ 161,406	Unknown	Direct boring estimate
7	4-inch VC Sewer Main (<4 ft cover)	LF	0	\$ 63	\$ -	Unknown	Direct boring estimate
8	Primary Treatment Tanks	Each	149	\$ 20,000	\$ 2,980,000	Unknown	Primary tank, service connection, landscape repair
Zone 1 Construction Subtotal:					\$ 3,402,169		
Zone 2							
9	2-inch PVC Sewer Main (<4 ft cover)	LF	2023	\$ 51	\$ 103,173	Unknown	Direct boring estimate
10	3-inch PVC Sewer Main (<4 ft cover)	LF	700	\$ 54	\$ 37,800	Unknown	Direct boring estimate
11	4-inch VC Sewer Main (<4 ft cover)	LF	0	\$ 63	\$ -	Unknown	Direct boring estimate
12	Primary Treatment Tanks	Each	58	\$ 15,000	\$ 870,000	Unknown	Primary tank, service connection, landscape repair
Zone 2 Construction Subtotal:					\$ 1,010,973		
Zone 3							
13	2-inch PVC Sewer Main (<4 ft cover)	LF	1705	\$ 51	\$ 86,955	Unknown	Direct boring estimate
14	3-inch PVC Sewer Main (<4 ft cover)	LF	1290	\$ 54	\$ 69,660	Unknown	Direct boring estimate
15	4-inch VC Sewer Main (<4 ft cover)	LF	0	\$ 63	\$ -	Unknown	Direct boring estimate
16	Primary Treatment Tanks	Each	46	\$ 15,000	\$ 690,000	Unknown	Primary tank, service connection, landscape repair
Zone 3 Construction Subtotal:					\$ 846,615		
Zone 4							
17	2-inch PVC Sewer Main (<4 ft cover)	LF	4133	\$ 51	\$ 210,783	Unknown	Direct boring estimate
18	3-inch PVC Sewer Main (<4 ft cover)	LF	0	\$ 54	\$ -	Unknown	Direct boring estimate
19	4-inch VC Sewer Main (<4 ft cover)	LF	900	\$ 63	\$ 56,700	Unknown	Direct boring estimate
20	Primary Treatment Tanks	Each	43	\$ 15,000	\$ 645,000	Unknown	Primary tank, service connection, landscape repair
Zone 4 Construction Subtotal:					\$ 912,483		
Zone 5							
21	2-inch PVC Sewer Main (<4 ft cover)	LF	1200	\$ 51	\$ 61,200	Unknown	Direct boring estimate
22	3-inch PVC Sewer Main (<4 ft cover)	LF	1321	\$ 54	\$ 71,334	Unknown	Direct boring estimate
23	4-inch VC Sewer Main (<4 ft cover)	LF	2000	\$ 63	\$ 126,000	Unknown	Direct boring estimate
24	Primary Treatment Tanks	Each	26	\$ 15,000	\$ 390,000	Unknown	Primary tank, service connection, landscape repair
Zone 5 Construction Subtotal:					\$ 648,534		
Effluent Collection Subtotal:					\$ 6,820,774		
Collection Construction Subtotal:					\$ 9,650,774		
25	Construction Contingency (30%)				\$ 2,895,232		
Collection Construction & Contingency Total:					\$ 12,546,006		
Zone 6							
26	Individual Advanced Onsite Systems	LF	74	\$ 70,000	\$ 5,180,000	Unknown	Assumed TN requirement of 20 mg/L
Zone 6 Construction Subtotal:					\$ 5,180,000		
Advanced Onsite Systems Subtotal:					\$ 5,180,000		
27	Construction Contingency (30%)				\$ 1,554,000		
Advanced Onsite Construction Total:					\$ 6,734,000		
Engineering & Construction Management							
28	Final Design Engineering & Support	LS	1	\$ 1,881,901	\$ 1,881,901	Unknown	Assume 15% of construction (Advanced Onsite Not Included)
29	Construction Management and Inspections	LS	1	\$ 1,881,901	\$ 1,881,901	Unknown	Assume 15% of construction (Advanced Onsite Not Included)
Engineering & Construction Management Subtotal:					\$ 3,763,802		
Option #4 Collection & Advanced Onsite System Total:					\$ 23,043,808		
Costs to be Provided by District							
30	Legal and Administration	LS	1	\$ 250,000	\$ 250,000	District	Assumed
31	Property Acquisition for Lift Station	AC	0.4	\$ -	\$ -	District	Assume \$1M/Acre, Not needed option #4
32	Property Acquisition for Easements	AC	2.11	\$ 1,000,000	\$ 2,110,000	District	Assume \$1M/Acre, placeholder to match Stantec Estimate
District Costs Subtotal:					\$ 2,360,000		
Option #4 Effluent Sewer Collection Total Costs:					\$ 18,669,808		
Option #4 Effluent Sewer Collection & Advanced Onsite Total Costs:					\$ 25,403,808		

ITEM 8 – COROLLO WWTP EVALUATION

COROLLO WWTP EVALUATION

March 20, 2024

Mr. Randy Murphy
City of Solvang
1644 Oak Street
Solvang, CA 93463

Subject: Evaluation of Los Olivos flows on WWTP

Dear Randy,

Thank you for the opportunity to engage with the City in evaluating the impact of Los Olivos flows on the wastewater treatment plant (WWTP). The evaluation laid out in the scope and budget attached considers impacts of additional flows on the WWTP capacity as well as water quality of the effluent. Currently the City's new WWTP permit NOA has new final limits for TDS, chloride, sulfate, sodium, boron and total nitrogen based on the Santa Rita groundwater basin water quality objectives. It is important to consider the impacts of these salt constituents on the WWTPs ability to meet the new effluent standards.

We look forward to continuing to work with the City on this evaluation.

Sincerely,
CAROLLO ENGINEERS, INC.



Jeff Weishaar
Vice President

Attachment A: Evaluation of Los Olivos Flows on the WWTP Scope and Assumptions

General Assumptions

General assumptions for the study include the following:

- Los Olivos Community Services District (LOCSD) will provide all data related to flows and loads anticipated by the flows they wish to discharge to the City of Solvang's WWTP. Data to include anticipated flow variations (monthly average, maximum month, peak day and hour) and quality data (BOD, TSS, ammonia, total nitrogen, TDS, chloride, sulfate, sodium, and boron).
- LOCSD or City will cover the costs for any required sampling and separately pay for any laboratory costs needed.
- Project duration estimated at 4 months.

Task 1 – PROJECT MANAGEMENT AND MEETINGS

Task includes project management activities and meetings which include:

- Ongoing monthly project management and invoices, schedule updates, and progress letters.
- Monthly check-in meetings (up to 4 meetings at one hour) – Virtual.
- Kickoff meeting – A kickoff meeting will be held with Carollo team and City staff to discuss the project workplan, schedule and goals/objectives.

Deliverables: Meeting agendas, notes and powerpoints; electronic delivery

Task 2 – DATA COLLECTION AND REVIEW

Task includes:

- Consultant will provide a data request to the City of Solvang and LOCSD for all relevant data and past reports.
- Review of data provided by LOCSD and City, including groundwater, drinking water supply, WWTP influent and effluent water quality and volumes. Constituents to be evaluated include BOD, TSS, ammonia, total nitrogen, TDS, sodium, chloride, boron, and sulfate.
- LOCSD will provide a schedule of when flows will be delivered to City and when increases will be scheduled.
- Development of a sampling plan, if needed.

Deliverables: Data Request and Sampling Plan; electronic delivery

Task 3 – CAPACITY ASSESSMENT

The Consultant will evaluate existing WWTP capacity and the ability to accept new flows and loads from LOCSD. Average and peak conditions will be considered in the capacity analysis. The impact of additional loading on the WWTP's ability to meet discharge requirements related to treatment (BOD, TSS, ammonia, total nitrogen) will be considered. The timing of when discharges will be increasing will be established along with increased amounts. Consultant will use knowledge of City's WWTP and planned improvements.

Task 4 - WATER QUALITY ANALYSIS

The Consultant will evaluate the impact of LOCSD flows and loads on the City's ability to comply with the NOA discharge requirements for TDS, chloride, sulfate, sodium, and boron. Consultant will summarize data provided LOCSD and any data collected by the City or LOCSD via the sampling plan. This data will be used to develop a flow weighted loading analysis and estimated effluent concentrations expected over time if the City accepts LOCSD discharges. These concentrations will be compared to effluent limits to determine compliance.

Task 5 – RECOMMENDATION AND TM

The Consultant will summarize the findings of Tasks 2-4 into a draft Technical Memorandum (TM). The TM will identify the recommendation and conditions for the City to take additional flows and loads from LOCSD. The TM will also lay out the next steps for implementation if project is feasible. The draft TM will be reviewed by the City. A final TM will be developed incorporating City and LOCSD comments.

Deliverables: Draft and Final TM

City of Solvang – LOCSD Study

Task Description	Hours by Classification							Labor	PECE	Printing/ Travel	Estimated Fee
	Senior Prof	Lead Prof	Project Engineer	Professional	Assistant Prof	Support Staff	Total Hours				
	\$305	\$284	\$240	\$185	\$165	\$135			\$ 14.00		
Task 1 - Project Management and Meetings	9	10	2	10	0	8	39	\$ 9,000	\$ 546	\$ 500	\$ 10,050
<i>Project Management (4 months)</i>	4	0	0	0	0	8	12	\$ 2,300	\$ 168	\$ -	\$ 2,470
<i>Meetings - Kickoff, Monthly Progress (4) = 5</i>	5	10	2	10	0	0	27	\$ 6,700	\$ 378	\$ 500	\$ 7,580
Task 2 - Data Collection and Review	2	4	6	16	0	0	28	\$ 6,200	\$ 392	\$ -	\$ 6,590
<i>Data Collection and Review</i>	1	2	4	12	0	0	19	\$ 4,100	\$ 266	\$ -	\$ 4,370
<i>Sampling Plan (1)</i>	1	2	2	4	0	0	9	\$ 2,100	\$ 126	\$ -	\$ 2,230
Task 3 - Capacity Assessment	2	4	8	16	0	0	30	\$ 6,600	\$ 420	\$ -	\$ 7,020
<i>Evaluation of WWTP Capacity Impacts</i>	2	4	8	16	0	0	30	\$ 6,600	\$ 420	\$ -	\$ 7,020
Task 4 - Water Quality Analysis	2	2	0	8	0	0	12	\$ 2,700	\$ 168	\$ -	\$ 2,870
<i>Evaluation of WQ Impacts</i>	2	2	0	8	0	0	12	\$ 2,700	\$ 168	\$ -	\$ 2,870
Task 5 - Recommendation and TM	3	6	10	32	0	14	65	\$ 12,800	\$ 910	\$ -	\$ 13,710
<i>Draft TM</i>	2	4	8	24	0	8	46	\$ 9,200	\$ 644	\$ -	\$ 9,840
<i>Final TM</i>	1	2	2	8	0	6	19	\$ 3,600	\$ 266	\$ -	\$ 3,870
Total	18	26	26	82	0	22	174	\$ 37,300	\$ 2,436	\$ 500	\$ 40,240

**ITEM 9 – WSC – CITY OF SOLVANG INFRASTRUCTURE
EVALUATION**

WSC – CITY OF SOLVANG INFRASTRUCTURE EVALUATION



Proposal for Los Olivos/Solvang Collection System Modeling

May 8, 2024

Los Olivos Community Services District

Guy Savage
General Manager
PO Box 345
Los Olivos, CA 93441

Water Systems Consulting

805 Aerovista Place, Suite 201
San Luis Obispo, CA 93401

Joshua Reynolds, PE

P: (805) 457-8833 x 107
E: jreynolds@wsc-inc.com

Adam Donald, PE

P: (503) 419-6336 x 402
E: adonald@wsc-inc.com

Dear Guy,

Water Systems Consulting, Inc. (WSC) appreciates the opportunity to provide you with a proposal to provide hydraulic modeling services to support the Los Olivos Community Services District (LOCSD) determine the impacts of transitioning from a septic system to a collection system that disposes of their wastewater through the City of Solvang's (City's) wastewater treatment plant.

WSC understands LOCSD is in the early stages of transitioning away from a septic system and the City and LOCSD have joint interest in the City treating LOCSD's wastewater. LOCSD has reached out to WSC to evaluate the impacts of adding this wastewater to the City's collection system to understand the potential impacts and costs associated with the City taking on the additional loading from LOCSD. The enclosed documents present WSC's proposed scope of work and fee estimate to assist LOCSD with their modeling needs. We are thankful for the opportunity to support LOCSD. If you have any questions regarding this proposal, please contact us using the information provided in the margins.

Sincerely,

Water Systems Consulting, Inc.

**Joshua Reynolds, PE
Vice President/Principal in Charge**

**Adam Donald, PE
Project Manager**

Scope of Work

Task 0 Project Management

0.1 Project Administration

- Prepare monthly progress reports to be submitted with each invoice. It is assumed that the project duration is 3 months.

0.2 Progress Meetings

- Lead monthly progress meetings (3 total progress meetings)

Deliverables:

- (1) Monthly progress reports and invoices.

Assumptions:

- (1) Project duration is 3 months.
- (2) Progress meetings are assumed to be 30 minutes in duration and occur using a virtual video conferencing platform.

Task 1 Data Gathering

1.1 Data Gathering

- Collect and review the available loading data for LOCSD.

Deliverables:

- (1) Data request log

Assumptions:

- (1) Loading data is assumed to be available as the average annual flow for the LOCSD system that can be applied as a point load to the model. This scope assumes WSC will not be calculating the average annual flow.

Task 2 Solvang Capacity Analysis

2.1 Hydraulic Model Analysis

- Apply LOCSD loading to the City of Solvang's collection system model to evaluate the impacts of this additional load under existing and buildout conditions.
- Identify capacity constraints in the City's collection system under existing and buildout conditions with the addition of the Los Olivos loading and identify necessary upgrades to remove capacity constraints.

- Compare influent sewage lift station rated capacity with projected sewage flows including Los Olivos loading to determine if the existing force main and pumps are sufficiently sized.
- Provide planning level cost estimate for necessary capacity upgrades. Costs will be limited to the cost to upsize each undercapacity main. Influent sewage lift station cost opinion will be a limited planning level effort, and will rely on guidance from the City of Solvang.

2.2 Hydraulic Modeling Technical Memorandum (TM)

- Prepare a draft TM for LOCSO to review summarizing the methodology used in performing the hydraulic model analysis and the modeling results.
- Prepare a final TM addressing LOCSO comments.

Deliverables:

- (1) Draft hydraulic model TM
- (2) Final hydraulic model TM

Assumptions:

- (1) Los Olivos will provide an estimate of average annual flow and peaking factor for use in modeling their loading.
- (2) If peaking factor is not available, the peaking factor of 4.0 from the City of Solvang's collection system model will be applied to the Los Olivos average annual flow.
- (3) Los Olivos loading will be applied near Sunny Fields Park at City of Solvang manhole MD-114.
- (4) City of Solvang collection system model is assumed to be calibrated and will not be recalibrated as part of this analysis.
- (5) LOCSO review times will be two weeks.
- (6) Capacity analysis will be limited to preparing pipe upsize cost calculations for the existing pipes. WSC will not perform an alternatives evaluation for upgrade options and will not look at diversion manholes leading into new parallel trunk lines.
- (7) Influent sewage lift station rated capacity will be provided by the City of Solvang.

Task No. Task Description	WSC							ALL FIRMS
	QA/QC	Project Manager/ Project Engineer	Project Administration	WSC Labor Hours	WSC Labor Fee	Expenses	WSC Fee	Total Fee
	Joshua Reynolds	Adam Donald	Kay Merrill					
<i>Billing rates, \$/hr</i>	\$399	\$257	\$179					
0 Project Management								
0.1 Project Administration	1	3	4	8	\$ 1,886	\$ -	\$ 1,886	\$ 1,886
0.2 Progress Meetings		2		2	\$ 514	\$ -	\$ 514	\$ 514
SUBTOTAL	1	5	4	10	\$ 2,400	\$ -	\$ 2,400	\$ 2,400
1 Data Gathering								
1.1 Data Gathering	1	4		5	\$ 1,427	\$ -	\$ 1,427	\$ 1,427
SUBTOTAL	1	4	0	5	\$ 1,427	\$ -	\$ 1,427	\$ 1,427
2 Solvang Capacity Analysis								
2.1 Hydraulic Model Analysis	2	34		36	\$ 9,536	\$ -	\$ 9,536	\$ 9,536
2.2 Hydraulic Modeling TM	2	18		20	\$ 5,424	\$ -	\$ 5,424	\$ 5,424
SUBTOTAL	4	52	0	56	\$ 14,960	\$ -	\$ 14,960	\$ 14,960
COLUMN TOTALS	6	61	4	71	\$ 18,787	\$ -	\$ 18,787	\$ 18,787

10% mark-up on direct expenses; 15% mark-up for sub-contracted services
 Standard mileage rate \$0.625 per mile (or current Federal Mileage Reimbursement Rate)
 Rates are subject to revision as of January 1 each year.

ITEM 10 – GROUNDWATER MONITORING WELLS

GROUNDWATER MONITORING WELLS



Scope of Work and Fee Estimate

To: Guy Savage, Los Olivos Community Services District

From: Tim Thompson, GSI Water Solutions
Andy Lapostol, GSI Water Solutions

Date: May 6, 2024

RE: Biannual Monitoring and Reporting for Existing Groundwater Monitoring Network

GSI Water Solutions (GSI) is pleased to present the following scope of work and budget for hydrogeologic support services associated with the Los Olivos Groundwater Monitoring Plan (GWMP). The objective of this work is to conduct supplemental nitrate sampling for the Los Olivos Community Services District’s (District) existing groundwater monitoring network. This sampling may help GSI better characterize nitrate within the aquifer and determine if nitrates are more concentrated towards the top of the aquifer. A “dual-sampling” method as recommended by the Regional Board may provide more information about the nature of nitrate contamination in the shallow alluvial aquifer underlying Los Olivos.

Data developed from this one-time sampling event will be beneficial to the District’s ongoing efforts to meet County of Santa Barbara and Regional Water Quality Control Board requests for improved understanding of the shallow aquifer conditions in the Los Olivos area.

Task 1 – Sample 5 Existing Monitoring Network Wells

The District’s monitoring network currently consists of five monitoring wells, recently installed by GSI. GSI proposes to conduct a single water quality sampling event for these five wells in May 2024, as per recommendations from the Regional Water Board.

GSI staff will mobilize to Los Olivos to collect water level measurements and water quality samples from each of the five monitoring wells. Water level measurements will be taken prior to water quality sampling, using a water level sounder with a precision of 0.01 foot and will be recorded to the nearest 0.01 foot. It is assumed that all wells can get sampled in one day.

Then, each well will be sampled twice: once after purging¹ water near the top of the well screen and again after cleaning sampling equipment and purging water from the middle of the well screen. If the well dewateres too rapidly in any of the monitoring wells during purging, it is possible that only one sample will be collected. All water will be purged with a submersible pump. Purging volumes and field parameters (e.g., pH, temperature, and electrical conductivity) will be documented on purge logs in addition to the date and time of sampling. Samples will be sent to an accredited laboratory for analysis of the constituents shown in Table 1.

¹ Unless otherwise directed by the District, it is assumed that purged will be disposed of directly on site. Total purge volumes for are expected to be minimal, on the order of 10-15 gallons per well.

Additional information regarding monitoring and sampling methods may be found in the Los Olivos Groundwater Monitoring Plan, prepared by GSI in April 2021.

Table 1. Sampling Parameters

Field Parameters	Laboratory Analyses		Laboratory Sample Timing
Constituent	Constituent	Method	Purge 1 (shallow) or 2 (deep)
pH	Nitrate as N, Nitrite as N	EPA 300	1 and 2
Temperature	Chloride, Sulfate	EPA 300	1 and 2
Electrical Conductivity	Total Dissolved Solids	SM 2540C	1 and 2
	Total Kjeldahl Nitrogen	EPA 351.2	1 and 2
	Nitrate-Nitrite as N, Total N	Calculated	1 and 2
	Total Boron, Total Sodium	EPA 200.7	1 and 2
	Pharmaceuticals and Personal Care Products	LMCS PPCP NEG/POS	2
	Nitrogen and Oxygen Isotopes	15N/14N and 18O/16O	2

Task 1 Deliverables

- Water quality sampling results reported by the Laboratory
- A spreadsheet table summarizing water quality sampling results collected from the monitoring network to date

Fee Estimate and Schedule

The proposed fee to complete the work on a time-and-materials basis is \$22,150, including all expenses and laboratory analysis fees. You will only be billed for actual time spent on the project, and the budget will not be exceeded without your prior approval. GSI’s 2024 Fee Schedule is provided as Attachment A.

Every effort will be made to work within this authorized budget. If more budget is required, we will inform you in advance so that you can decide how you wish to manage our effort.

Work can begin upon receipt of authorization to proceed and execution of the professional services agreement.

Sincerely,
GSI Water Solutions



Tim Thompson, PG, CHG
Principal Water Resources Consultant



2024 GSI Fee Schedule

Labor Category	Hourly Rate
Technical Professionals	
Principal Tim Thompson	\$250 – \$360 \$305
Supervising Brian Franz	\$210 – \$310 \$250
Managing Andres Lapostol	\$170 – \$230 \$175
Consulting	\$150 – \$190
Project	\$140 – \$170
Staff Nehuen Fortunelli	\$120 – \$160 \$155
Other Services	
GIS/Graphics/Database	\$130 – \$185
Editor/Documents	\$130 – \$155
Administration	\$95 – \$125

The hourly rate for trial preparation and expert witness testimony is 1.5 times the standard billing rate shown above.

Expenses

- **Mileage:** IRS authorized rate/mile plus 10 percent markup
- **Direct expenses and outside services:** Cost plus 10 percent markup
- **Enterprise GIS:** \$100 per month for the duration of use



Mr. Guy Savage
General Manager
Los Olivos Community Services District
(805) 500-4098
gm.locsd@gmail.com

May 10, 2024

Re: Survey Proposal for Los Olivos Community Services District. Monitoring well locations at various locations in Los Olivos., Ca 93441

Dear Mr. Savage,

Scope of Services:

We understand you are looking for 5 monitoring wells to be put onto the state Geotracker system. Here is our scope of work

We will locate the 5 well locations at the above site. We will use our Leica Robotic total station and maintain accuracy to within .01' vertical accuracy for the monitoring well locations. We will use Leica GPS to tie survey control and monitoring wells to a current Horizontal and vertical Datum that is published. We will supply you with an excel spread sheet with all locations in a Lat. Long. format and CCS 83 coordinate listing as well.

Schedule and Fee:

All tasks are on a **Time and Materials basis, based on our current fee schedule, unless otherwise noted below**, and shall be billed on our 60 day billing cycle or upon completion. Gromatici can complete the work within **two weeks** from receiving the signed contract and retainer designated below.

The cost of the survey is:

\$1,300.00

Task 1: Location of Monitoring wells

If you would like Gromatici to provide these services please return the agreement letter initialed and signed and I will return a signed copy for your records. Please feel free to call and ask me any questions regarding the proposal.

- 2432 Railway Ave., Suite I – Los Olivos, CA 93441 • eackerman@gromatici.com
- 93 Castilian Drive., Goleta, CA 1st fl – Suite 81B•
- Mail: P.O. Box 650, Los Olivos, CA 93441**
- (805) 845-2133 office SB • (805) 691-9112 Office LO • (866) 610-1045 fax

Additional Services:

Services outside the scope of work will require written approval prior to performance of the work. Design changes by the Owner/Client or designer after the start of work shall be considered additional services. Any work requested (including re-staking) by the client that is outside the scope of this agreement shall be identified as such, and billed out on a Time and Materials Basis, or a fixed fee or not-to-exceed amount agreed upon prior to the start of the additional work. Compensation for additional services shall be in accordance with Gromatici's current Fee Schedule plus travel time.

Billing will be performed on a monthly basis and due within 60 days.

Mr. Savage, again, thank you for considering Gromatici for your surveying support needs. I will be able to provide the quality control you need to have a smooth project, and provide it at a good value. Please feel free to call me and ask me any questions regarding the proposal.

Sincerely,



Eric J Ackerman, PLS 8226
Principal Land Surveyor
Gromatici Land Surveying, Inc.

x:\leads\private\2024 leads\p-2024-3161 locsd savage\p-2024-3161 proposal rev01.docx

Agreement between Client and Consultant

Client Initials	Consultant Initials

Project Number: _____
(Office Use)

THIS AGREEMENT entered into at Santa Barbara, California on the _____ day of _____ and between "client" and Gromatici, hereinafter called the "consultant" is as follows:

Client: _____

Consultant: Gromatici Land

Name: _____

Surveying, Inc.

Mailing Address: _____

Address: P.O. Box 650

Los Olivos, CA 93441

Phone: _____

Phone: (805) 691-9112

Fax: _____

Fax: (866) 610-1045

Email: _____

The client intends to retain Gromatici for professional land surveying services for the site known as for **Los Olivos Community Services District: Various locations**, hereinafter called "project".

Our professional Land Surveyors and Engineers are licensed by the Board of Professional Engineers, Land Surveyors, and Geologists. Eric J. Ackerman is licensed to perform Land Surveying and Planning: PLS 8226, CFedS#1609. The client and consultant, for mutual consideration hereinafter set forth, agree as follows:

Client Initials Consultant Initials

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A. Consultant agrees to perform services as outlined in the attached proposal letter dated May 10, 2024, in a professional and competent manner according to standard practices at our current hourly rates (see our attached Fee Schedule), or on a Lump Sum Fee Basis if listed in aforementioned proposal letter.

B. Client and consultant agree that the following provisions shall be a part of their agreement:

1. Payments shall be made upon completion or on a monthly progress billing basis. Progress billing must be paid within 30 days of receiving them, regardless of the job completeness.
2. Additional items outside of the scope of work listed in the proposal letter required by the client will require a signed change order or email confirmation from the client.
3. Client and Gromatici Land Surveying, Inc agree that in the event of any legal action and/or arbitration proceeding against Gromatici Land Surveying, Inc or the owner, Eric J. Ackerman and Deborah I. Ackerman, the amount of damages, if any, shall be limited to the actual fees paid to Gromatici Land Surveying, Inc.
4. A late payment FINANCE CHARGE of 1% per month (12% per year) shall be applied to any unpaid balance commencing 30 days after the date of billing.
5. Client may terminate by written instruction unless the survey is required to be recorded by state law. Only the time actually spent will be due to Gromatici Land Surveying, Inc. If the project was on a lump sum fee basis, then only the time spent up to the lump sum fee will be charged to the client. Some types of projects, like Elevation Certificates and LOMA's are performed at a substantial discount vs. billing at our fee schedule and the time spent may actually result in a bill that is for the complete amount of the Lump Sum fee should client decide to cancel the job near completion.
6. The client shall be responsible for all governmental fees associated with the work performed under this contract and any other fees not specifically covered by the terms of this contract. This includes filing fees for Corner Records and Record of Surveys and billable time spent complying with State Law regarding filing requirements should that determination be made by the State or the County Surveyor's Office.
7. All Title Company fees such as copy of documents and research fees will be paid by client. Should these fees exceed \$100, the client will be notified and authorized by the client before proceeding.

Client Initials Consultant Initials

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8. Ownership of Work Product. **Client and Consultant acknowledge** that all original papers, documents, maps, surveys, and other work product of Consultant, and copies thereof, produced by Consultant pursuant to this Agreement, except documents which are required to be filed with public agencies, **shall be jointly owned by both Client and Consultant. Both Client and Consultant** shall have the unrestricted right to use any such work product, for any purpose whatsoever, without the consent of **the other party**. Any use by Client outside the intended use provided by consultant is not warranted by Consultant and Consultant is not liable for misuse or misrepresentation of said deliverables when used outside of the intended use thereof.
9. Use of Work Product. Client agrees not to use or permit any other person to use final maps, exhibits, legal descriptions, surveys, or other work product ("Work Product") prepared by Consultant, which Work Product is not final and which is not signed, and stamped or sealed by Consultant. Client agrees that Consultant is not responsible for any such use of non-final Work Product and waives any right to claim liability against Consultant therefore.
10. Deposition and Court appearances: Client agrees that in the event of a dispute with another party where my testimony, or the testimony of an employee of Gromatici is needed either in court, or a deposition, that the client will pay for the time and materials or the fees listed in the current Fee Schedule. The attorney working in the clients behalf may or may not retain us directly but the payment for our services rendered will still be paid by the client unless then law firm retains us directly. No change order will need to be made if this situation arises.

Client Initials	Consultant Initials

Client further agrees that final Work Product is for the sole use of Client for the specific purpose described in this Agreement. Such final Work Product may not be altered or reproduced in any way nor used on any other project or for any other purposes than as specifically authorized by Consultant in writing prior to any such use, alteration, or reproduction.

IN WITNESS HEREOF, the parties hereto have accepted, made and executed this agreement upon the conditions above stated and on the exhibits attached hereto, the day and year first above written.

Client:

 Name of Client (Print or Type)

 Date

 Signature

 Title

Consultant:

Gromatici Land Surveying, Inc.

 Consultant

 Date

 Signature

Eric J Ackerman- President, PLS 8226

 Name/Title



Billing Rates for 2024

I. Surveying and Planning (Straight time)*

Principal Surveyor	\$200.00 per hour
Project Surveyor	\$160.00 per hour
Senior Surveyor	\$145.00 per hour
Associate Surveyor	\$125.00 per hour
Assistant Surveyor	\$95.00 per hour
CAD Tech (Drafting):	\$115.00 per hour
Administrative	\$50.00 per hour

Non-Prevailing Wage Rates:

2 Person Field Crew	\$245.00 per hour
1 Person Field Crew – Principal (With Robot)	\$215.00 per hour
1 Person Field Crew – Chief (With Robot)	\$195.00 per hour
3 Person Crew (Usually GPS Control Surveys)	\$330.00 per hour
GPS hourly charge (added to field crew rate)	\$50.00 per hour
Travel Time (Discounted rate)	\$135.00 per hour
Airman (Drone Surveys)	\$155.00 per hour

Prevailing Wage Rates:

2 Person Field Crew	\$305.00 per hour
1 Person Field Crew	\$245.00 per hour
Flagger	\$80.00 per hour

II. High Definition Laser Scanning:

Scanning project will be determined on a case-by-case basis. There are a few options with the end product in mind:

1. Full Scans
 - a. 3D data only
 - b. 2D data only
 - c. Both 2D and 3D data
2. Partial Scans can also be provided with the same options.

Hourly Rate 1-Man Crew:	\$175 per hour
Hourly Rate 2-Man Crew:	\$245 per hour
Post-processing:	\$115 per hour

III. Forensic

Court Appearance	\$1,800 per day
------------------	-----------------

Rates are subject to change without notice.
 eackerman@gromatici.com 805-691-9112 office 866-610-1045 fax



Depositions \$375 per hour (2 hours min.)

* Straight time is the first 9 hours including travel time. **Overtime** rate as authorized by client will be 1.25 times the rates shown above.

Monument Costs:

Monument Type A	\$35.00 per unit
Monument Type B	\$25.00 per unit
Monument Type C	\$15.00 per unit
Monument Type D	\$10.00 per unit
Witness Stakes:	\$10.00 per unit

Monument Type A = 1.5" galvanized steel pipe with a 2" Brass Cap.
 Monument Type B = 1" galvanized steel pipe with a 1" Brass Cap or Aluminum Cap.
 Monument Type C = 3/4" galvanized steel pipe with a copper plug.
 Monument Type D = 1" copper plug set in concrete or Mag nail and washer.

We can customize your survey monuments at an extra charge.
Bond Plots are \$1.50 per square foot. Mylar plots are \$5.00 per square foot.

Stakes and Lath:

Survey Stakes	1x2x18, 25¢ each
Survey Lath	1x2x24, 30¢ each
Survey Lath	1x2x36, 50¢ each
Survey Lath	1x2x48, 56¢ each

Hubs, 2x2x6, 32¢ each
 Hubs, 2x2x9, 35¢ each
 Hubs, 2x2x12, 39¢ each
 Hubs, 2x2x18, 58¢ each

Reimbursable expenses will have a 15% markup.

Supplemental Data to Proposal

In order to provide you with a better understanding of the work involved we have prepared some additional information to supplement our cost proposal. Please read this first, and then feel free to ask me any questions about the proposal.

Instructions: Feel free to read the whole document but I would recommend selecting the subject that fits the purpose of your survey. For instance: If you selected a topographic basemap, go to the Topographic Surveys first, then read about boundary surveys and the other services later.

BOUNDARY SURVEYS

Boundary surveys require research, field surveying, office compilation of data, and finally in most cases the production of a map. The first step, research establishes the basis for the survey by locating any relevant recorded surveys, deeds, highway right-of-way maps, etc. This can be very simple such as a lot in a Tract Map, or it can end up taking days depending on the complexity of the creation of the parcel and the availability of the mapping and deeds for the parcel. This is the most important step in a boundary survey. Unfortunately there are no GPS coordinates for your corner we can plug in and know where they go as of yet. There are some exceptions to this that likely don't apply to your parcel. The majority of the millions of boundary corners in the state are based upon a deed or map. Some fieldwork finding them has to be done prior to completing the survey.

With this information in hand, the field crew will begin its work with a thorough monument search. For newer parcels, we can sometimes easily find them and be done with the survey. For most parcels, the monuments have been removed or disturbed by landscapers, fence builders, and even the landowners themselves. Typically, in order to find enough monuments that relate to the subject property, the search will extend several lots in either direction. (Most surveys in downtown areas require that the entire city block be surveyed.) Next, where needed, new property corner monuments are set, based on the measured positions of all found monuments and on the legal principles which govern boundary surveys. Depending on how we are proposing your survey, we may or may not set new corners. That decision is left up to you prior to setting anything.

When property corners are set, State law (Section 8762-8773 of the Professional Land Surveyors Act) requires that the survey be recorded with a Corner Record or Record of Survey, depending on the situation we encounter. The surveyor may not know until after the field survey is complete, which of the two methods will be required. The first method, being the simplest, is called a Corner Record. It is produced on an 8 ½ x 11" sheet and then filed in the office of the County Surveyor. It is used in cases where lost monuments are replaced in their original positions based on the location of other original monuments of record (usually in a subdivision of tract lot siting). The other method is called a Record of Survey map, and is required for any survey in which monuments are set and for which a Corner Record would not be applicable. It is prepared on an 18" x 26" Mylar sheet that is first checked by the County Surveyors Office and then filed in the County Recorder's Office.

The preparation of either a Corner Record or a Record of Survey map requires additional office time after the survey is complete. The amount of time would depend on the complexity of the survey.

Typically Gromatici will charge Time & Materials for these types of surveys due to the unknown nature of the boundary survey. We prefer to offer our boundary surveying in PHASES, starting with the initial research, pre-survey calculations, and the initial field work, which includes reconnaissance and surveying. We may or may not complete the survey in this first phase depending the circumstances of the survey.

Think of our initial survey like a biopsy of a growth. If the results are benign, then your fine and no more treatment or procedures are necessary. However, if it's cancerous, then more treatment may need to be done, if you elect to do so.

For surveying: We may find the corners and be done. OR, we may only find a few, or very little and will need additional time to properly finish the survey. You may or may not elect to continue the survey work after we reach the initial proposed budget for the survey. You and I can discuss the options.

Please note: Some surveys show boundary lines but may be based upon RECORD data and not MEASURED data. This is typically done on topographic surveys, GIS reports, tax assessor's mapping, and other online sites. Record data means: Compiled mathematically from deeds, maps (some really old, some new), and other record sources. Some of these sources are over 100 years old and may only be accurate within 50 feet, and others may be within a couple of feet. You'll want to make sure that you discuss with your surveyor EXACTLY what you're getting. Sometimes a RECORD DATA ONLY survey is fine (based upon minimal ties to existent survey markers), depending on the needs or your project. Other times the investment is worth far more than what the surveyor is charging. At Gromatici we will only typically do a RECORD DATA only survey for topographic mapping or planning type mapping. ALWAYS question the origin of the work shown on a map. Maps and coordinates shown on a map may be accurate, though not precise.

LOCATION SURVEYS

Usually done in concert with a boundary survey this type of survey shows buildings, fences, walls, and even items like trees or utilities in relation to the boundary lines. These are often done where the owners are trying to prove if a fence is on their own property or their neighbors. These are also done for showing inspectors that new construction is clear of setbacks. A measured boundary survey needs to be done first, to provide this mapping. Typically the boundary is a measured boundary but there are some exceptions. Feel free to discuss this with me.

TOPOGRAPHIC SURVEYS

Data for topographic maps are collected through the use of either aerial or field surveying. While most of the work on an aerial topo is done by a photogrammetrist, a certain amount of field surveying is required to set aerial control panels and tie into the record boundary with minimal ties to survey marks. Smaller properties are usually handled by field surveying methods alone but can be supplemented by flood control mapping if needed. In this case the surveyor must collect all relevant data in the field, including sufficient boundary data to correctly locate the topography relative to property lines. Field data is then transferred to the office computer for assimilation with boundary information taken from recorded maps or deeds. All of the data is plotted in the computer, and after final drafting, the map is complete.

IMPORTANT NOTES ABOUT TOPOGRAPHIC SURVEYS:

1. *Usually only the RECORD Boundary data is provided for Topographic survey UNLESS you plan on maximizing the setbacks (buildable area). This is important because many architects, land owners, and engineers will assume that the property lines shown on a survey are MEASURED, but this is NOT always the case. Make sure that the proposal says "Measured boundary, or Complete Boundary Survey".*
2. **A topographic map will not show easements, set-back lines or other encumbrances unless that information is specifically requested in advance.**
3. *If requested in advance, a topographic survey can be provided on a computer disc as an Auto Cad drawing file or as a DXF transfer file at no extra cost.*
4. *Please read the above subject entitled "Boundary Surveys" to understand the difference between record data and measured data.*

Please note: Some surveys show boundary lines but may be based upon RECORD data and not MEASURED data. This is typically done on topographic surveys, GIS reports, tax assessor's mapping, and other online sites. Record data means: Compiled mathematically from deeds, maps (some really old, some new), and other record sources. Some of these sources are over 100 years old and may only be accurate within 50 feet, and others may be within a couple of feet. You'll want to make sure that you discuss with your surveyor EXACTLY what you're getting. Sometimes a RECORD DATA ONLY survey is fine (based upon minimal ties to existent survey markers), depending on the needs or your project. Other times the

investment is worth far more than what the surveyor is charging. At Gromatici we will typically do a RECORD DATA only survey for topographic mapping or planning type mapping. ALWAYS question the origin of the work shown on a map. Maps and coordinates shown on a map may be accurate, though not precise.

DRONE TOPOGRAPHIC SURVEYS

Drone surveys can be more accurate than traditional aerial surveys since the drone is flown at a much lower elevation. The manufacturer claims centimeter level accuracy and at a practical level a tenth of a foot should be expected under ideal conditions. Drone surveys can also produce color ortho-photos for small and large sites even if contours and linework are not requested. However, items under tree canopies, or fields with tall grass will not be mapped, and tall vegetation can reduce the precision of the contours.

For most of our projects, we will need to provide you with some on-the-ground data, and combine it with the drone survey for the most accurate, but cost-effective survey possible. The main application for drone surveys will be open fields, and lower accuracy survey needs. For instance: An ALTA/NSPS survey that needs to show improvements, but there are not plans for design of ADU ramps, or building additions. Agricultural settings such as proposed vineyards, or even new buildings needing contour data in an open space.

High design needs, such as ADA improvements, and heavy tree canopied sites would not be the ideal candidate for use of a drone. Additionally there are restricted flight areas we have to avoid using the drone.

ALTA/NSPS LAND TITLE SURVEY

ALTA/NSPS stands for "American Land Title Association/ National Society of Professional Surveyors. The title industry wants to have uniformity of survey deliverables and has a congress meet every few years to meet with the Surveyor's and lay down a set of standards that they will abide by. This is to ensure a consistent survey deliverable that the Land Surveyor will certify to. You can order this but it is NOT necessary to have a complete boundary survey, plot easements, or have other items shown like contours, utilities, and so on. This service is usually reserved for lenders, attorneys, title officers, and others, for large commercial/industrial and exclusive properties. This type of survey is usually exhaustive, and requires extensive chain of title work and direct supervision by a Licensed Land Surveyor.

TENTATIVE MAPPING/ FINAL MAPPING

This is a long process due to the requirements imposed by the governing agencies. We have extensive experience in this area. It will start with some preliminary work on preparing a Tentative Map. You may or may not decide to perform a complete boundary survey up-front to save headaches and costs after which a partial or complete topographic survey will be done. The Tentative Mapping process can take months to complete due to the public agency requirements and we may have to do more than one site visit to comply with those requirements. After the Tentative Map is approved, we can then prepare the Parcel Map or Final Map. This requires a complete boundary survey, setting of monuments, and the recording of the Map. Extensive field work and office work is necessary to complete this. We cannot tell you ahead of time how much this cost, nor explain all the County/City fees they will require.

LOT LINE ADJUSTMENT

Lot Line Adjustments (henceforth "LLA") are a simple solution to an occupation issue that has become very complicated in some jurisdictions. Many times a LLA will be similar to the Tentative Mapping process with less County Fees due to the fact that they want a partial or even a complete topographic map of the site and show the proposed lot adjustment. The process involves:

- Topographic mapping showing the proposed lines being adjusted
- Title information
- Parcel Boundary Survey
- Creating Deeds of Trust, partial conveyances, new deeds, exhibits and other documents

LEGAL OR LAND DESCRIPTIONS

A recorded easement, is composed of two parts: The "legal description" and the "land description". The licensed land surveyor is legally authorized to compose the verbiage describing the geometry and metes and bounds of the easement, which we call a "land description". The complete documents that gets recorded is called the legal description. Any portion of the legal description that deals with agreements, covenants, and other items is handled by the client or their attorney although some easements that do not need those items can simply be prepared and recorded. We will generally prepare a land description based upon minimal field ties, and qualifying calls to record data, monuments, or others items we deem appropriate for the purpose of the description.

ELEVATION CERTIFICATES

A survey may need to tie out a benchmark on the same datum as the FEMA mapping. We will also need inside briefly to establish a Finish Floor elevation, elevations on the second floor (if applicable) and the elevation of the garage. Other data is gathered and provided on the Elevation Certificate. Current mapping is researched, which includes the FIS mapping AND any amendments or applicable LOMA's for the area. This process usually takes about 4-6 hours of office time and about 4 – 8 hours of field time depending on location and the size of the project.

Benchmarks are usually not close, and sometimes miles away so there is some work offsite done to transfer a published elevation to the client's site in order to provide this service. Sometimes we use GPS to do this so that means post-processing of data and will need the next business day at least to do this.

Part of the scope of work is adjusting all our measured data to the datum, verifying it, and compiling the data in AutoCAD and then filling out the approved FEMA form.

OTHER SURVEYS

There are many other types of survey including: Legal Descriptions, Right-of-Way Engineering, Cadastral, GPS Control Surveys and Geodetic, Tidal, Construction Staking and many more that are not covered in this information. Please feel free to call me if you have any questions.

CONSENT FOR SERVICES

Many times, we get asked why we're down the street, or why we are in the front/back/side, or why we aren't doing the survey in the order that the client thought it would be done. Sometimes folks want to know why we aren't using GPS, or have other technical/protocol objections. At times we are provided with directions that we won't be able to comply with since it would violate ethics and/or survey procedures. Some clients like to tell us to just "use these two points" or start "grabbing the scalpel" from us figuratively speaking.

I like to give my client the power to control what they are paying for and the ability to stop work, or opt out of a service. You have the right to choose who you want to survey for your property, when, and even dictate the scope of work. However, once the go ahead is provided for a certain service I have outlined, the methods, ethics, procedures, and QA/QC used, are going to be decided by me, as the Licensed Professional.

Ultimately my Errors and Omissions insurance is going to pay for any mistakes I make, even if directed by you. The Courts do not view me as a contractor that does as he is told by clients, but as a professional that is responsible for his client's welfare and the welfare of the public. Even if we were to contract indemnity for gross negligence because you directed me to survey a certain way, the neighbors surrounding me could still sue me or have my licensed removed regardless of how I wrote up the contract. I cannot hide behind a "I was following orders" excuse for shoddy or unethical work.

By hiring us you are consenting to our company standards and survey quality and procedures. During the course of the survey we MAY use GPS and/or Robotic total stations. Measurement tolerances, deed interpretation, and survey procedures will be directed by the licensed professional for liability reasons (besides the education, experience, and ethical reasons). The surveyor responsible for making these decisions needs to be able to DEFEND those decisions in court, to neighbors, attorneys, and against any challenges made by colleagues as well as the County Surveyor.

Professional Land Surveyors are licensed by the Board of Engineers, Land Surveyors, Geologist, and Geophysicists. Please be sure to check if your surveyor is licensed!

http://www.bpelsg.ca.gov/consumers/lic_lookup.shtml

RIGHT OF ENTRY

California Civil Law provided the surveyor with right of entry on neighboring properties as needed to perform his work. Section 846.5 of the California Civil Code states:

The right of entry of entry upon or to real property to investigate and utilize boundary evidence, and to perform surveys, is a right of persons legally authorized to practice land surveying and it shall be the responsibility of the owner or tenant who owns or controls property to provide reasonable access without undue delay. The right of entry is not contingent upon the provision of prior notice to the owner of tenant. However, the owner or tenant shall be notified of the proposed time of entry where practicable.

Here is a link to a guide for Consumers when hiring a land surveyor:

http://www.bpelsg.ca.gov/pubs/consumer_guide.pdf

ITEM 11 – FY 2024-25 PROPOSED BUDGET

FY 2024-25 PROPOSED BUDGET



**FY 2024-25
PROPOSED
BUDGET**

BOARD OF DIRECTORS

Julie Kennedy, President

Lisa Palmer, Vice President

Tom Fayram, Director

Greg Parks, Director

Nina Stormo, Director

General Manager

Guy Savage

Board of Directors:

The following pages provide an overview of the Proposed Budget for the Los Olivos Community Service District (LOCS D) for the Fiscal Year 2024-25 (FY 2024-25). The LOCS D fiscal year begins on July 1; therefore, FY 2024-25 runs from July 1, 2024 to June 30, 2025. Details of the Proposed Budget can be found on Page 4 of this document and are based on input from your April 10, 2024 Strategic and Budget Planning session.

The LOCS D Proposed Budget for FY 2024-25 has been prepared consistent with the current FY 2023-24 budget. By law, the LOCS D is required to develop and adopt a balanced budget. A balanced budget is one where the total expected revenues are equal to total planned spending.

For FY 2024-25, the LOCS D anticipates \$555,767 in total cash and revenues to be available for expenditure during the fiscal year. This includes \$315,526 in fund balance from FY 2023-24, \$3,485 in Interest Income, and \$236,756 in Special Tax Revenues.

Expenses for FY 2024-25 are anticipated to be \$361,880, including all normal and professional services expenditures. Of particular note is \$160,000 in Professional and Special Services expense that are intended to set aside funding for studying potential connection to the City of Solvang’s wastewater treatment infrastructure and plant (\$60,000) and a portion of the 60% design (\$100,000).

Reserves are anticipated to be set at \$47,351 for the fiscal year.

FY 2023-24 to FY 2024-25 Comparisons

The Adopted FY 2022-23 budget included \$227,650 in Special Tax Assessment revenues. The FY 2024-25 Proposed Budget assumes \$236,756 in Special Tax Assessments revenues. The FY 2024-25 figure is based on actual receipts in FY 2024-25 and assumes a 4% increase. No grant funds are assumed or budgeted for in FY 2024-25.

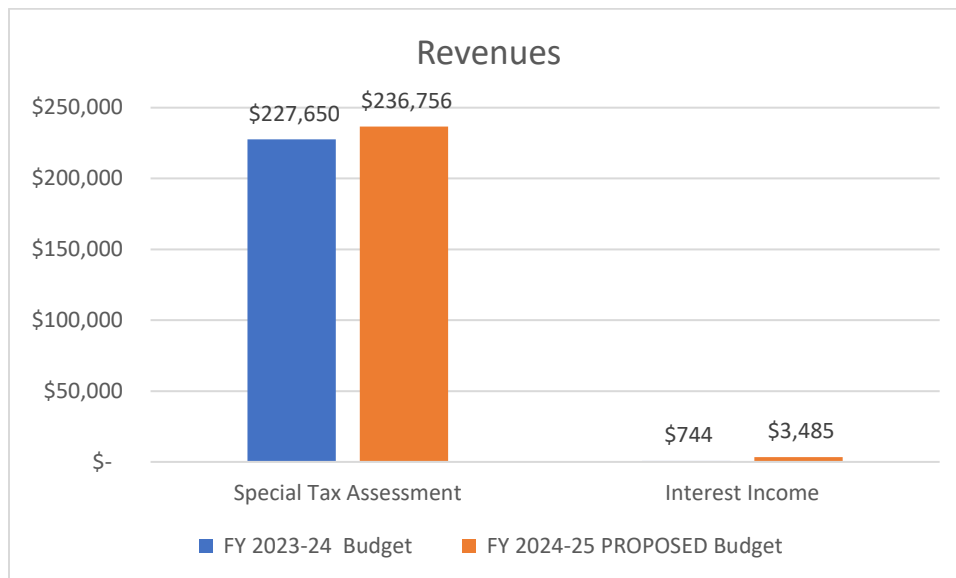


Chart 1 – Comparison of FY 2023-24 to FY 2024-25 Revenue Sources

Expenses

The expenses in the FY 2024-25 Proposed Budget includes those activities that are required to operate the LOCSD during a typical year plus any planned projects. The proposed Services and Supplies expense totals \$314,529.

Annually incurred expenses such as insurance, audit, and office expenses comprise the majority of the smaller amounts included in the Proposed Budget. The amounts used for these expenses in the FY 2024-25 Proposed Budget were based on quotes from existing service providers or prior year actuals.

Expenses related to Legal Fees and Contractual Services (GM and DE contracts) are based on a straight-line projection of FY 2023-24 actuals, plus any contractually agreed to increases. Where a contractually agreed increase is expected, a 4% Consumer Price Index (CPI) increase was assumed. Unlike prior years, a specific budget line item has been added for Groundwater Monitoring Well testing. The budgeted amount is based on an estimate from GSI Water Solutions, who has been doing the LOCSD's testing since the District drilled its first wells in 2023.

As part of your FY 2024-25 budget discussions, your Board emphasized increased public engagement. For this reason, five public notifications, including mailers to all property owners within the LOCSD, have been assumed. Additionally, the LOCSD is required to provide public notice in a local newspaper for its Budget Hearing. Combined, these Publication and Legal Notice costs are estimated to be \$1,750 for FY 2024-25.

The other significant expense shown in the FY 2024-25 Proposed Budget is Professional & Special Service. Based on recommendations from the Finance Subcommittee, an amount of \$160,000 is shown in the Proposed Budget for Professional and Special Services. This amount includes \$60,000 for evaluations related to potentially connecting the LOCSD to the City of Solvang. Also included is \$100,000 toward the completion of a 60% design. Note that prior to commencing a 60% design effort, the Board will have adopted a project description. This same project description will likely be used for the Environmental Impact Report (EIR).

Additional notable expenses include staff contracts for the General Manager, District Engineer, and District Counsel. Each of these was estimated based on current year costs through April and then a calculation was made to estimate a full 12-month expense amount.

Not included in the proposed budget are funds for the drilling or testing of additional wells. This was done as your Board has previously noted that it wanted to focus on developing a solution to the nitrates in local groundwater as opposed to determining the levels of nitrates that exist. Should your Board wish to drill additional wells, a planning number of \$37,500 per well should be used.

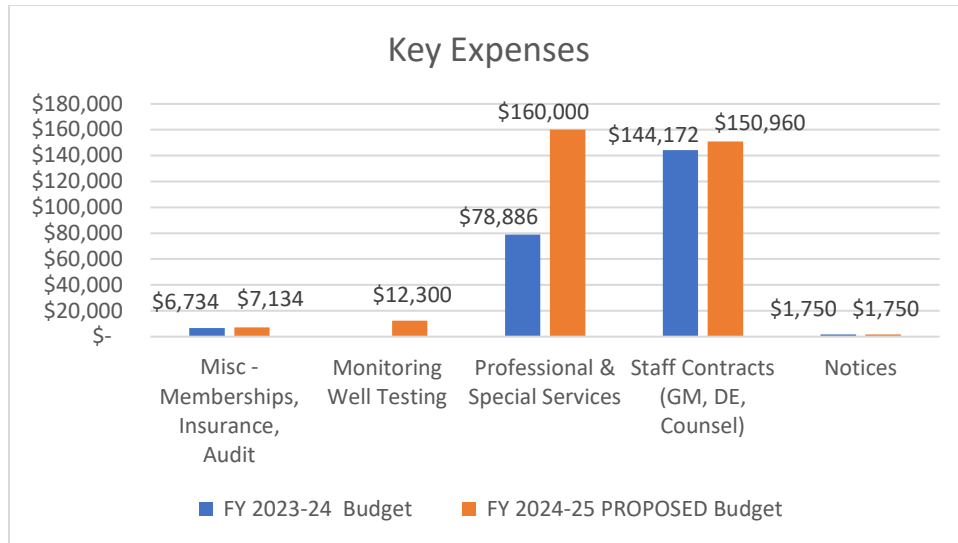


Chart 2 – Comparison of FY 2023-24 to FY 2024-25 Expenses

Reserves

The final amount shown on FY 2024-25 Proposed Budget is a Reserve. Per Board Policy, this amount should be budgeted no less than 10% of the current operating budget. As was done in FY 2023-24, instead of using an amount tied directly to the operating budget, a calculation related to the Special Tax Revenues was used. Therefore, the amount shown for Operational Reserve is \$47,351, or 20% of the Special Tax Revenues.

Unallocated Funds

After expenditures, and setting aside an operational reserve, the District has an unallocated amount of \$193,888. This large amount is dependent on the amount of funds “carried over” from FY 2023-24. Meaning it is driven by funds that were not spent in FY 2023-24. This amount can be targeted as the year progresses towards new efforts your Board would like to see completed.

**Los Olivos Community Services District
FY 2024-25 Budget (PROPOSED)**

Line Item Account	FY 2023-24 (as of 4/1/2024)	DRAFT FY 2024-25	DRAFT FY 2024-25	Notes
Beginning Balance	\$ 87,567	\$ 315,526	\$ -	
Revenues				
Taxes				
3066 -- Special Tax Assessment	\$ 227,650	\$ 236,756	\$ 236,756	Assumes 4% YOY from prior
Taxes	\$ 227,650	\$ 236,756	\$ 236,756	
Use of Money and Property				
3380 -- Interest Income	\$ 877	\$ 3,485	\$ 3,485	YTD
3381 -- Unrealized Gain/Loss Invstmnts	\$ -	\$ -	\$ -	
Use of Money and Property	\$ 877	\$ 3,485	\$ 3,485	
Intergovernmental Revenue				
4339 -- State - Other	\$ 75,000	\$ -	\$ -	
4840 -- Other Governmental Agencies	\$ 30,000	\$ -	\$ -	
Intergovernmental Revenue-Other	\$ 105,000	\$ -	\$ -	
Miscellaneous Revenue				
5895 and 5909 -- Donations	\$ 75,020			
Miscellaneous Revenue	\$ 75,020	\$ -	\$ -	
Total Cash & Revenues	\$ 496,114	\$ 555,767	\$ 240,241	
Expenditures				
Services and Supplies				
7090 -- Insurance	\$ 2,933	\$ 2,787	\$ 2,787	Per SDRMA letter date 4/17/2024
7324 -- Audit and Accounting Fees	\$ 426	\$ 2,900	\$ 2,900	1-year est MLH
7325 -- Other Professional Services (Well Testing)		\$ 12,300	\$ 12,300	Twice a year, all 5 wells, nitrates only
7430 -- Memberships	\$ 1,244	\$ 1,300	\$ 1,300	
7450 -- Office Expense				
7460 -- Professional & Special Service (Project, Planning & Studies)	\$ 79,143	\$ 160,000	\$ 160,000	\$60k is related to performing studies on connecting to the City of Solvang; 60% Design \$300k+ (\$100,000 towards this effort); Treatment Study \$90k+; Assessment Engineering Report \$50k+; EIR \$150k+; Polling for election feasibility \$25k+; Voting process \$125k+
7508 -- Legal Fees	\$ 20,236	\$ 28,061	\$ 28,061	YTD 9 month average plus April, May, June; plus contractual increases
7510 -- Contractual Services (IGM Contract, Engineer)	\$ 76,032	\$ 105,431	\$ 105,431	YTD 9 month average plus April, May, June; plus contractual increases
7530 -- Publications & Legal Notices		\$ 1,750	\$ 1,750	Budget notices + 5 workshops mailers, etc. at \$300 per workshop
7671 -- Special Projects	\$ 574	\$ -	\$ -	
7732 -- Training		\$ -	\$ -	
Services and Supplies	\$ 180,587	\$ 314,529	\$ 314,529	
Other Charges				
7894 - Communication Services		\$ -	\$ -	
Other Charges	\$ -	\$ -	\$ -	
Operational Reserve		\$ 47,351	\$ 47,351	20% of Special Tax Revenues
Reserve	\$ -	\$ 47,351	\$ 47,351	
Total Expenditures	\$ 180,587	\$ 361,880	\$ 361,880	
Ending Balance	\$ 315,526	\$ 193,888	\$ (121,639)	

Table 1 – FY 2024-25 Proposed Budget

Year Over Year Comparison of Budgets

**Los Olivos Community Services District
FY 2024-25 Budget (PROPOSED)**

Line Item Account	FY 2020-21 Budget	FY 2020-21 (as of 6/30/2021)	FY 2021-22 Budget	FY 2021-22 (as of 6/30/2022)	FY 2022-23 Budget	FY 2022-23 (as of 6/30/2023)	FY 2023-24 Budget	FY 2023-24 (as of 4/1/2024)	DRAFT FY 2024-25	DRAFT FY 2024-25
Beginning Balance	\$ 193,885	\$ 193,885	\$ 213,370	\$ 213,370	\$ 136,475	\$ 154,050	\$ 87,567	\$ 87,567	\$ 315,526	\$ -
Revenues										
Taxes										
3066 -- Special Tax Assessment	\$ 188,887	\$ 197,023	\$ 196,253	\$ 200,931	\$ 203,121	\$ 232,834	\$ 211,246	\$ 227,650	\$ 236,756	\$ 236,756
Taxes	\$ 188,887	\$ 197,023	\$ 196,253	\$ 200,931	\$ 203,121	\$ 232,834	\$ 211,246	\$ 227,650	\$ 236,756	\$ 236,756
Use of Money and Property										
3380 -- Interest Income		\$ 839	\$ -	\$ 764	\$ 724	\$ 2,079	\$ 744	\$ 877	\$ 3,485	\$ 3,485
3381 -- Unrealized Gain/Loss Invstmnts		\$ (1,157)	\$ (80)	\$ (6,602)		\$ -	\$ -	\$ -	\$ -	\$ -
Use of Money and Property		\$ (319)	\$ (80)	\$ (5,838)	\$ 724	\$ 2,079	\$ 744	\$ 877	\$ 3,485	\$ 3,485
Intergovernmental Revenue										
4339 -- State - Other								\$ 75,000	\$ -	\$ -
4840 -- Other Governmental Agencies	\$ 180,000	\$ 44,986	\$ 274,000	\$ 43,386	\$ 169,804	\$ 30,131	\$ -	\$ 30,000	\$ -	\$ -
Intergovernmental Revenue-Other							\$ -	\$ 105,000	\$ -	\$ -
Miscellaneous Revenue										
5895 and 5909 -- Donations								\$ 75,020		
Miscellaneous Revenue	\$ 180,000	\$ 44,986	\$ 274,000	\$ 43,386	\$ 169,804	\$ 30,131	\$ -	\$ 75,020	\$ -	\$ -
Total Cash & Revenues	\$ 562,772	\$ 435,575	\$ 683,543	\$ 451,849	\$ 510,124	\$ 419,095	\$ 299,557	\$ 496,114	\$ 555,767	\$ 240,241
Expenditures										
Services and Supplies										
7090 -- Insurance	\$ 2,320	\$ -	\$ 2,500	\$ 162	\$ 2,500	\$ 2,800	\$ 2,934	\$ 2,933	\$ 2,787	\$ 2,787
7324 -- Audit and Accounting Fees	\$ 4,000	\$ 2,000	\$ 4,000	\$ 178	\$ 4,000	\$ 2,646	\$ 2,500	\$ 426	\$ 2,900	\$ 2,900
7325 -- Other Professional Services (Well Testing)		\$ -	\$ 10,000	\$ -		\$ -			\$ 12,300	\$ 12,300
7430 -- Memberships	\$ 1,200	\$ 3,533	\$ 1,200	\$ 1,102	\$ 1,200	\$ 1,287	\$ 1,300	\$ 1,244	\$ 1,300	\$ 1,300
7450 -- Office Expense	\$ 2,000		\$ 2,000	\$ 600	\$ 2,000	\$ -				
7460 -- Professional & Special Service (Project, Planning & Studies)	\$ 193,500	\$ 54,191	\$ 439,000	\$ 156,283	\$ 189,908	\$ 214,602	\$ 112,050	\$ 79,143	\$ 160,000	\$ 160,000
7508 -- Legal Fees	\$ 27,000	\$ 17,921	\$ 27,000	\$ 27,165	\$ 30,000	\$ 33,005	\$ 41,191	\$ 20,236	\$ 28,061	\$ 28,061
7510 -- Contractual Services (IGM Contract, Engineer)	\$ 80,400	\$ 95,023	\$ 67,000	\$ 103,038	\$ 49,000	\$ 76,589	\$ 95,583	\$ 76,032	\$ 105,431	\$ 105,431
7530 -- Publications & Legal Notices	\$ 1,000	\$ -	\$ 5,000	\$ -	\$ 5,000	\$ -	\$ 1,750		\$ 1,750	\$ 1,750
7671 -- Special Projects	\$ 8,000	\$ -	\$ 15,000	\$ -	\$ 175,000	\$ -		\$ 574	\$ -	\$ -
7732 -- Training	\$ 1,500	\$ -	\$ 1,500	\$ -	\$ 1,500	\$ -			\$ -	\$ -
Services and Supplies	\$ 320,920	\$ 172,668	\$ 574,200	\$ 288,527	\$ 460,108	\$ 330,928	\$ 257,307	\$ 180,587	\$ 314,529	\$ 314,529
Other Charges										
7894 - Communication Services	\$ 930	\$ 600	\$ 930	\$ -	\$ -	\$ 600	\$ -		\$ -	\$ -
Other Charges	\$ 930	\$ 600	\$ 930	\$ -	\$ -	\$ 600	\$ -		\$ -	\$ -
Operational Reserve							\$ 42,249		\$ 47,351	\$ 47,351
Reserve							\$ 42,249	\$ -	\$ 47,351	\$ 47,351
Total Expenditures	\$ 321,850	\$ 173,268	\$ 575,130	\$ 288,527	\$ 460,108	\$ 331,528	\$ 299,557	\$ 180,587	\$ 361,880	\$ 361,880
Ending Balance	\$ 240,922	\$ 262,307	\$ 108,413	\$ 163,321	\$ 49,293	\$ 87,567	\$ 0	\$ 315,526	\$ 193,888	\$ (121,639)

FY 2024-25 Budget Timeline

	PROPOSED STEPS	DATE
1	DRAFT Budget to Finance Subcommittee	4/5/2024
2	Budget Planning, possibly as a workshop after Regular Meeting concludes	4/10/2024
3	GM prepares recommended DRAFT Budget based on Workshop	4/30/2024
	Finance Committee prepares and approves recommended DRAFT Budget to present to Board	5/10/2024
4	Board Approves a PRELIMINARY budget at a Regular Meeting and determines a Hearing Date	5/15/2024
5	The District will publish a notice stating that the GM has prepared a proposed final budget which is available for inspection on the website; and include the date, time, and place when the Board will meet to adopt the final budget and that any person may appear and be heard regarding any item in the budget or regarding the addition of other items. Publication must be at least 2 weeks before Budget adoption meeting in at least one newspaper of general circulation in the district. NOTE: The notice must be PUBLISHED at least two weeks before the hearing, (SY Valley News / Santa Maria Times). It only needs to be published one time. Post DRAFT Budget on Website.	5/21/2024 - publication must be at least 2 weeks before 6/12/2024 meeting
6	FINAL Budget hearing, part of Regular Meeting	6/12/2024

Table 2 – FY 2024-25 Budget Timeline

As a resident of the District, I would like to thank you for your ongoing support of the Los Olivos Community Services District’s mission to improve groundwater quality by converting septic systems to a community wastewater collection, treatment, and reclamation facility in the Los Olivos area.

Sincerely,

 Guy W. Savage
 General Manager
 Los Olivos Community Services District

Los Olivos Community Services District											
FY 2024-25 Budget (PROPOSED)											
Line Item Account	FY 2020-21 Budget	FY 2020-21 (as of 6/30/2021)	FY 2021-22 Budget	FY 2021-22 (as of 6/30/2022)	FY 2022-23 Budget	FY 2022-23 (as of 6/30/2023)	FY 2023-24 Budget	FY 2023-24 (as of 4/1/2024)	DRAFT FY 2024-25	DRAFT FY 2024-25	Notes
Beginning Balance	\$ 193,885	\$ 193,885	\$ 213,370	\$ 213,370	\$ 136,475	\$ 154,050	\$ 87,567	\$ 87,567	\$ 315,526	\$ -	
Revenues											
Taxes											
3066 -- Special Tax Assessment	\$ 188,887	\$ 197,023	\$ 196,253	\$ 200,931	\$ 203,121	\$ 232,834	\$ 211,246	\$ 227,650	\$ 236,756	\$ 236,756	Assumes 4% YOY from prior
Taxes	\$ 188,887	\$ 197,023	\$ 196,253	\$ 200,931	\$ 203,121	\$ 232,834	\$ 211,246	\$ 227,650	\$ 236,756	\$ 236,756	
Use of Money and Property											
3380 -- Interest Income		\$ 839	\$ -	\$ 764	\$ 724	\$ 2,079	\$ 744	\$ 877	\$ 3,485	\$ 3,485	YTD
3381 -- Unrealized Gain/Loss Invstmnts		\$ (1,157)	\$ (80)	\$ (6,602)		\$ -	\$ -	\$ -	\$ -	\$ -	
Use of Money and Property		\$ (319)	\$ (80)	\$ (5,838)	\$ 724	\$ 2,079	\$ 744	\$ 877	\$ 3,485	\$ 3,485	
Intergovernmental Revenue	\$ -										
4339 -- State - Other								\$ 75,000	\$ -	\$ -	
4840 -- Other Governmental Agencies	\$ 180,000	\$ 44,986	\$ 274,000	\$ 43,386	\$ 169,804	\$ 30,131	\$ -	\$ 30,000	\$ -	\$ -	
Intergovernmental Revenue-Other							\$ -	\$ 105,000	\$ -	\$ -	
Miscellaneous Revenue											
5895 and 5909 -- Donations								\$ 75,020			
Miscellaneous Revenue	\$ 180,000	\$ 44,986	\$ 274,000	\$ 43,386	\$ 169,804	\$ 30,131	\$ -	\$ 75,020	\$ -	\$ -	
Total Cash & Revenues	\$ 562,772	\$ 435,575	\$ 683,543	\$ 451,849	\$ 510,124	\$ 419,095	\$ 299,557	\$ 496,114	\$ 555,767	\$ 240,241	
Expenditures											
Services and Supplies											
7090 -- Insurance	\$ 2,320	\$ -	\$ 2,500	\$ 162	\$ 2,500	\$ 2,800	\$ 2,934	\$ 2,933	\$ 2,787	\$ 2,787	Per SDRMA letter date 4/17/2024
7324 -- Audit and Accounting Fees	\$ 4,000	\$ 2,000	\$ 4,000	\$ 178	\$ 4,000	\$ 2,646	\$ 2,500	\$ 426	\$ 2,900	\$ 2,900	1-year est MLH
7325 -- Other Professional Services (Well Testing)		\$ -	\$ 10,000	\$ -		\$ -			\$ 12,300	\$ 12,300	Twice a year, all 5 wells, nitrates only
7430 -- Memberships	\$ 1,200	\$ 3,533	\$ 1,200	\$ 1,102	\$ 1,200	\$ 1,287	\$ 1,300	\$ 1,244	\$ 1,300	\$ 1,300	
7450 -- Office Expense	\$ 2,000		\$ 2,000	\$ 600	\$ 2,000	\$ -					
7460 -- Professional & Special Service (Project, Planning & Studies)	\$ 193,500	\$ 54,191	\$ 439,000	\$ 156,283	\$ 189,908	\$ 214,602	\$ 112,050	\$ 79,143	\$ 160,000	\$ 160,000	the City of Solvang; 60% Design \$300k+ (\$100,000 towards this effort); Treatment Study \$90k+; Assessment Engineering Report \$50k+; EIR \$150k+; Polling for election feasibility \$25k+; Voting process \$125k+
7508 -- Legal Fees	\$ 27,000	\$ 17,921	\$ 27,000	\$ 27,165	\$ 30,000	\$ 33,005	\$ 41,191	\$ 20,236	\$ 28,061	\$ 28,061	YTD 9 month average plus April, May, June; plus contractual increases
7510 -- Contractual Services (IGM Contract, Engineer)	\$ 80,400	\$ 95,023	\$ 67,000	\$ 103,038	\$ 49,000	\$ 76,589	\$ 95,583	\$ 76,032	\$ 105,431	\$ 105,431	YTD 9 month average plus April, May, June; plus contractual increases
7530 -- Publications & Legal Notices	\$ 1,000	\$ -	\$ 5,000	\$ -	\$ 5,000	\$ -	\$ 1,750		\$ 1,750	\$ 1,750	Budget notices + 5 workshops mailers, etc. at \$300 per workshop
7671 -- Special Projects	\$ 8,000	\$ -	\$ 15,000	\$ -	\$ 175,000	\$ -		\$ 574	\$ -	\$ -	
7732 -- Training	\$ 1,500	\$ -	\$ 1,500	\$ -	\$ 1,500	\$ -			\$ -	\$ -	
Services and Supplies	\$ 320,920	\$ 172,668	\$ 574,200	\$ 288,527	\$ 460,108	\$ 330,928	\$ 257,307	\$ 180,587	\$ 314,529	\$ 314,529	
Other Charges											
7894 - Communication Services	\$ 930	\$ 600	\$ 930	\$ -	\$ -	\$ 600	\$ -	\$ -	\$ -	\$ -	
Other Charges	\$ 930	\$ 600	\$ 930	\$ -	\$ -	\$ 600	\$ -	\$ -	\$ -	\$ -	
Operational Reserve							\$ 42,249		\$ 47,351	\$ 47,351	20% of Special Tax Revenues
Reserve							\$ 42,249	\$ -	\$ 47,351	\$ 47,351	
Total Expenditures	\$ 321,850	\$ 173,268	\$ 575,130	\$ 288,527	\$ 460,108	\$ 331,528	\$ 299,557	\$ 180,587	\$ 361,880	\$ 361,880	
Ending Balance	\$ 240,922	\$ 262,307	\$ 108,413	\$ 163,321	\$ 49,293	\$ 87,567	\$ 0	\$ 315,526	\$ 193,888	\$ (121,639)	

**ITEM 12B – GENERAL MANAGER AND DISTRICT ENGINEER
REPORTS**

GENERAL MANAGER AND DISTRICT ENGINEER REPORTS

LOCSD - MEETINGS CALENDAR YEAR 2024 - WORKING DRAFT

Q2	May	FY 2023-24
	FY 2024-25 Budget	
	REGEN Report	
	June	
	FY 2024-25 Budget Hearing, Gann Limit, Tax Assessment Authorization	
Q3	July	FY 2024-25
	WS - Gravity versus Effluent Comparison	
	August	
	WS - Proposition 218 - Property Owner Vote Process	
	September	
	Corollo and/or WSC Reports	
	WS - EIR Process, CCRWQCB/EHS	
Q4	October	FY 2024-25
	60% Design RFP Authorization	
	November	
	December	
	60% Design contract	

Summary Project Status Report

Audit (Moss, Levy & Hartzheim)	Budget:		Schedule:	
Waiting for bills from M, L & H – work complete Signed 2023 Audit contract sent to MLH				
REGEN – 30% Hybrid Collection Engineering Design	Budget:		Schedule:	
May final presentation				
Groundwater Monitoring Wells	Budget:		Schedule:	
<ul style="list-style-type: none"> Detailed report on tonight’s agenda Special testing schedule for May 				

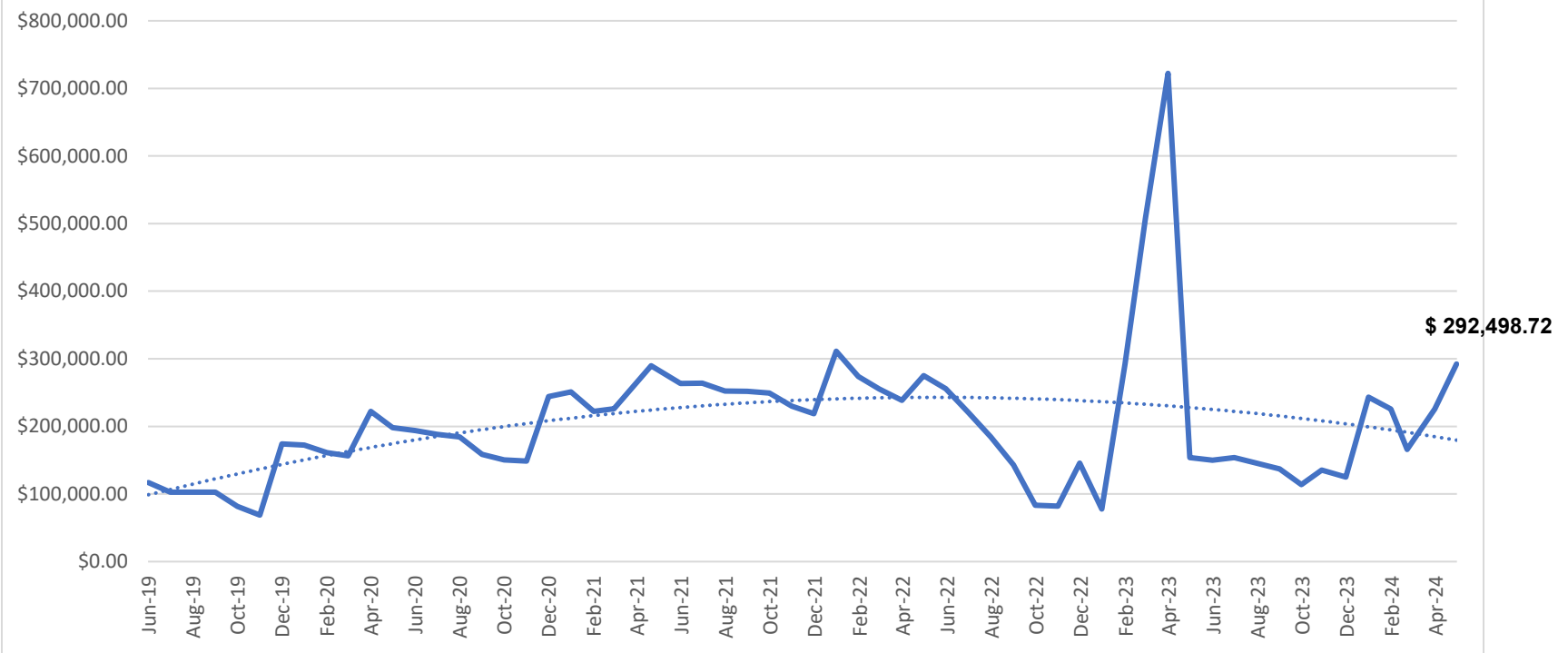
Other:

Preparing for LAFCO presentation in August.

Quarterly report due this month.

Considering additional outreach to Los Olivos Elementary, Dunn, and Mattei’s Tavern

Los Olivos CSD Cash Balance History



Cash Balances

As of: 4/30/2024
Accounting Period: OPEN

Selection Criteria: Fund = 3490

Layout Options: Summarized By = Fund; Page Break At = Fund

Fund	4/1/2024 Beginning Balance	Month-To-Date Cash Receipts (+)	Month-To-Date Treasury Credits (+)	Month-To-Date Warrants and Wire Transfers (-)	Month-To-Date Treasury Debits (-)	4/30/2024 Ending Balance
3490 -- Los Olivos CSD	241,587.40	0.00	93,665.56	0.00	42,754.24	292,498.72
Total Report	241,587.40	0.00	93,665.56	0.00	42,754.24	292,498.72

Financial Status

As of: 4/30/2024 (83% Elapsed)
Accounting Period: OPEN

Selection Criteria: Fund = 3490

Layout Options: Summarized By = Fund, LineItemAccount; Page Break At = Fund

Fund 3490 -- Los Olivos CSD

Line Item Account	6/30/2024 Fiscal Year Adjusted Budget	4/30/2024 Year-To-Date Actual	6/30/2024 Fiscal Year Variance	6/30/2024 Fiscal Year Pct of Budget
Revenues				
Taxes				
3066 -- Special Tax Assessment	227,650.00	232,541.04	4,891.04	102.15 %
Taxes	227,650.00	232,541.04	4,891.04	102.15 %
Use of Money and Property				
3380 -- Interest Income	744.00	3,485.25	2,741.25	468.45 %
Use of Money and Property	744.00	3,485.25	2,741.25	468.45 %
Intergovernmental Revenue-State				
4339 -- State-Other	0.00	75,000.00	75,000.00	--
Intergovernmental Revenue-State	0.00	75,000.00	75,000.00	--
Intergovernmental Revenue-Other				
4840 -- Other Governmental Agencies	0.00	30,000.00	30,000.00	--
Intergovernmental Revenue-Other	0.00	30,000.00	30,000.00	--
Miscellaneous Revenue				
5895 -- Other-Donations	0.00	20,000.00	20,000.00	--
5909 -- Other Miscellaneous Revenue	0.00	20.00	20.00	--
Miscellaneous Revenue	0.00	20,020.00	20,020.00	--
Revenues	228,394.00	361,046.29	132,652.29	158.08 %
Expenditures				
Services and Supplies				
7090 -- Insurance	2,934.00	2,932.81	1.19	99.96 %
7324 -- Audit and Accounting Fees	2,500.00	425.50	2,074.50	17.02 %
7430 -- Memberships	1,300.00	1,244.00	56.00	95.69 %
7450 -- Office Expense	0.00	756.00	-756.00	--
7460 -- Professional & Special Service	78,886.00	113,183.70	-34,297.70	143.48 %

Financial Status

As of: 4/30/2024 (83% Elapsed)
Accounting Period: OPEN

Selection Criteria: Fund = 3490

Layout Options: Summarized By = Fund, LineItemAccount; Page Break At = Fund

Fund 3490 -- Los Olivos CSD

Line Item Account	6/30/2024 Fiscal Year Adjusted Budget	4/30/2024 Year-To-Date Actual	6/30/2024 Fiscal Year Variance	6/30/2024 Fiscal Year Pct of Budget
7508 -- Legal Fees	45,529.00	21,831.96	23,697.04	47.95 %
7510 -- Contractual Services	98,643.00	82,393.71	16,249.29	83.53 %
7530 -- Publications & Legal Notices	1,750.00	0.00	1,750.00	0.00 %
7671 -- Special Projects	0.00	573.64	-573.64	--
Services and Supplies	231,542.00	223,341.32	8,200.68	96.46 %
Expenditures	231,542.00	223,341.32	8,200.68	96.46 %
Changes to Fund Balances				
Decrease to Residual Fund Balance				
9601 -- Residual Fund Balance-Inc/Dec	3,148.00	0.00	-3,148.00	0.00 %
Decrease to Residual Fund Balance	3,148.00	0.00	-3,148.00	0.00 %
Changes to Fund Balances	3,148.00	0.00	-3,148.00	0.00 %
Los Olivos CSD	0.00	137,704.97	137,704.97	--
Net Financial Impact	0.00	137,704.97	137,704.97	--

General Ledger Trial Balance

As of: 4/30/2024
Accounting Period: OPEN

Selection Criteria: Fund = 3490

Layout Options: Summarized By = Fund; Page Break At = Fund

Fund 3490 -- Los Olivos CSD

	Beginning Balance 7/1/2023	Year-To-Date Debits	Year-To-Date Credits	Ending Balance 4/30/2024
Assets & Other Debits				
Assets				
0110 -- Cash in Treasury	154,050.07	505,859.14	367,410.49	292,498.72
0240 -- Interest Receivable	743.68	3,485.25	4,228.93	0.00
Total Assets	154,793.75	509,344.39	371,639.42	292,498.72
Total Assets & Other Debits	154,793.75	509,344.39	371,639.42	292,498.72
Liabilities, Equity & Other Credits				
Liabilities				
1010 -- Warrants Payable	0.00	3,052.00	3,052.00	0.00
1015 -- EFT Payable	0.00	219,570.18	219,570.18	0.00
1210 -- Accounts Payable	0.00	222,622.18	222,622.18	0.00
1730 -- Unidentified Deposits	0.00	125,020.00	125,020.00	0.00
Total Liabilities	0.00	570,264.36	570,264.36	0.00
Equity				
2200 -- Fund Balance-Residual	-154,793.75	0.00	0.00	-154,793.75
2410 -- Est Revenues/Oth Fin Src	0.00	231,542.00	0.00	231,542.00
2510 -- Appropriations/Oth Fin Use	0.00	0.00	231,542.00	-231,542.00
2710 -- Revenues/Other Fin Sources	0.00	144,069.17	505,115.46	-361,046.29
2810 -- Expenditures/Other Fin Uses	0.00	223,341.32	0.00	223,341.32
Total Equity	-154,793.75	598,952.49	736,657.46	-292,498.72
Total Liabilities, Equity & Other Credits	-154,793.75	1,169,216.85	1,306,921.82	-292,498.72
Total Los Olivos CSD	0.00	1,678,561.24	1,678,561.24	0.00