

CRESCENTA VALLEY WATER DISTRICT

2700 FOOTHILL BOULEVARD
LA CRESCENTA, CALIFORNIA

To be held on
January 25, 2022 at 2:30 PM

Agenda for the Meeting of the Engineering Committee
of the Crescenta Valley Water District

Posted January 24, 2022 at 2:30 PM

TELECONFERENCING NOTICE

Under AB 361 and District Resolution No. 772, the District will continue to hold Board and Committee meetings by teleconference, due to the continuing State of Emergency for COVID-19 and the ongoing imminent risks to the health or safety of the attendees from COVID-19.

[This meeting will be held by teleconference only.]

Any member of the public may participate using a touchtone phone. You may select any of the following phone numbers (there are more than one for increased reliability during this time of increased phone traffic)

(669) 900-6833

(346) 248-7799

(929) 205-6099

(253) 215-8782

(301) 715-8592

(312) 626-6799

Then, enter Access Code: 827 0469 5713

[Pursuant to the above Executive Order, the public may not attend the meeting in person]

Those members of the public who are able to and would like to additionally participate with a computer through videoconference may access the Zoom videoconferencing tool available at the following link –<https://us02web.zoom.us/j/82704695713>

Any person may make a request for a disability-related modification or accommodation needed for that person to be able to participate in the public meeting by contacting the District by phone or in writing at customerservice@cvwd.com. Requests must specify the nature of the disability and the type of accommodation requested. A telephone number or other contact information should be included so that District staff may discuss appropriate arrangements. Persons requesting a disability-related accommodation should make the request with adequate time before the meeting for the District to provide the requested accommodation.

Call to Order

Adoption of Agenda

Public Comment:

At this time, members of the public shall have an opportunity to address the Committee on items of interest that are within the subject matter jurisdiction of this Committee. This opportunity is non-transferable, and speakers are limited to three (3) minutes each. Under the provisions of the Brown Act, the Board is prohibited from taking action on items not listed on the agenda, except under certain circumstances.

Action Items

The public shall have an opportunity to comment on any action item as each item is considered by the Committee. This opportunity is non-transferrable, and speakers are limited to one two-minute (2) comment each.

1. Discussion of Revisions and Reissuing the Request for Proposal for 2022 Wastewater Master Plan – Project M-1037
2. Discussion of Transferring 16 Water Services on the 4500 Block of Frederick Ave, 3400 Block of Thelma St, 3400 Block of Foothill Blvd and 4500 Block of New York to Glendale
3. Status Update - FY 21/22 Capital Improvement Project Budget

Committee Member's Request for Future Agenda Items

Next Engineering Committee Meeting – February 15, 2021, at 3:30 pm

Adjournment

CRESCENTA VALLEY WATER DISTRICT

STAFF REPORT

Information Item No. 1

January 25, 2022

To: Engineering Committee
From: David S. Gould, P.E. – Director of Engineering & Operations
Subject: Discussion of Revisions and Reissuing the Request for Proposal for 2022 Wastewater Master Plan – Project M-1037

BACKGROUND:

At the October 19, 2021, Engineering Committee meeting, staff discussed the need for the District to prepare a Wastewater Master Plan (WWMP), See attached memo. The request for proposal for the 2022 WWMP was sent to 12 consulting engineering firms on November 10, 2021.

A pre-proposal meeting was held on December 2, 2021, and it was attended by only three (3) firms. Prior to and after the pre-proposal meeting, staff was contacted by five (5) of the firms who declined to provide a proposal and four (4) other firms who did not respond. Staff sent an email out to all the firms on December 9, 2021, indicating that CVWD is postponing the proposal due date to a future date, as we re-evaluate the project scope of work and project budget.

Staff reached out to a few of the firms to find out reasons why they did not prepare a proposal for the WWMP. The comments received were that the budget for the project of \$175,000 was too low for the proposed scope of work. They indicated that their preliminary proposal cost was over \$300,000. Also, there was another WWMP RFP from another larger agency that was due the same day and the time frame CVWD proposed created a conflict.

DISCUSSION:

Staff reviewed the proposed scope of work and the budget amount after hearing these comments. Staff looked at various tasks in the RFP that could either be removed or performed by CVWD. After staff discussed this further, it was suggested that we separate the original RFP into two separate RFPs, 1) wastewater system analysis and 2) wastewater treatment & disposal alternative study. The two (2) RFP's will be revised into two (2) separate proposals as shown below.

RFP #1 - Data Collection and Assessment of Wastewater System

1. Review system-wide sewer flow characteristics, evaluate the existing condition, and assess the existing hydraulic capacity of the system utilizing CVWD's GIS information and as-builts.
2. Estimate future sewer flow based on population projections and potential development projects utilizing the Los Angeles County and City of La Canada Flintridge Future Land Use Map, General Plan and Housing Plan.
3. Develop a flow monitoring program that will be implemented by CVWD including:
 - i. Identify appropriate locations/stations for flow monitoring within the collection system to collect flow monitoring data under wet and dry weather conditions, to determine existing capacities and wastewater hydraulic modeling calibration.
 - ii. Provide a recommendation for design and installation of flow monitoring stations.
4. Create and run a wastewater hydraulic computer model based on existing information and field data on an agreed-up software platform that can be easily updated by staff.
5. Determine potential pipeline replacement, size upgrades and/or rehabilitation needs based on the hydraulic model and future sewer flows.
6. Create a prioritized 10-Year CIP sewer plan with potential funding approaches.

RFP #2 - Wastewater Treatment & Disposal Alternative Study

1. Prepare a Wastewater Treatment & Disposal Alternative Study (Study) including the following:
 - a) Identify potential wastewater treatment technologies and options.
 - b) Identify potential permitting issues and requirements.
 - c) Perform a preliminary siting study to evaluate potential sites for alternative wastewater treatment systems.
 - d) Evaluate potential uses of advanced treated tertiary recycled water effluent for application within CVWD service area or other benefit to CVWD via regional stakeholder partnership such as groundwater recharge.
 - e) Identify potential stakeholders and partnerships that would impact project implementation and/or project costs for possible grant opportunities.
 - f) Identify potential CEQA considerations and requirements, include a cursory environmental and public health risk assessment.
 - g) Determine impacts on CVWD personnel and certifications (i.e., additional staff).
 - h) Develop multiple alternatives to consider (including status quo) to collect, treat, dispose or reuse treated wastewater effluent.
 - i) Perform a life-cycle economic evaluation to derive a preliminary recommendation based on least cost.
 - j) Determine a preliminary project implementation schedule, a not-to-exceed project cost, and a preferred project delivery method.
2. Study should include recommendations for reducing CVWD's overall treatment costs and reducing annual costs to the City of Los Angeles
3. Review CVWD's existing contract with the City of Los Angeles for treatment and disposal costs with respect to less wastewater going LA and future contract negotiations

The following tasks from the original WWMP RFP would be removed from the RFP.

1. Review the District's Sewer System Management Plan (SSMP) and provide recommendations. CVWD's SSMP.
2. Address existing and future anticipated State Water Board and EPA regulations along with their impacts to the CVWD's wastewater systems including:
 - i. Update to CVWD's SSMP Plan
 - ii. Capacity, Management, Operations and Maintenance (CMOM) Program
 - iii. Inflow and Infiltration (I/I) study
 - iv. Sanitary Sewer Overflow (SSO) Initiatives.
3. Evaluate existing operation and maintenance practices and identify specific improvements in current level of service and maintenance program
4. Review and update District's standard wastewater construction drawings, specifications, requirements, and regulatory criteria.

Project Schedule:

Staff prepared a preliminary schedule for both projects with emphasis on completing the Study in October 2022 and the WWMP in April 2023 as shown on the attached. The Study will concentrate on alternative treatment systems during the 50% phase and will be provided updated wastewater flow data when information is available from the WWMP.

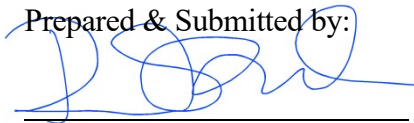
Project Budget:

The original budget for the WWMP was \$175,000 that was included the FY 21/22 budget. However, from staff's discussion with several consultants, the overall budget for both projects will need to be adjusted. Staff reviewed the revised scope of work and put together a preliminary budget for each RFP. The revised budget for RFP #1 is \$325,000 and the revised budget for RFP #2 is \$200,000 for a total of \$550,000. Staff estimates that approximately \$171,000 will be spent in FY 21/22 and the remainder \$354,000 will be spent in FY 22/23.

RECOMMENDATION:

It is staffs recommended to revise the original RFP and re-issue the RFP's as two separate projects, 1) wastewater system analysis and 2) wastewater treatment & disposal alternative study. The projects will be on a different timeline, which will give staff the information needed to plan for FY 22/23 budget and to plan out wastewater projects for the next five to ten years.

Prepared & Submitted by:



David S. Gould, P.E.

Director of Engineering & Operations

Attachments:

1. Engineering Committee memo dated October 19, 2021
2. RFP #1 - Data Collection and Assessment of Wastewater System
3. RFP #2 - Wastewater Treatment & Disposal Alternative Study
4. Preliminary Project Schedules for RFP #1 & RFP #2

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Attachment No. 1

**Engineering Committee memo dated October
19, 2021**

CRESCENTA VALLEY WATER DISTRICT

STAFF REPORT

Information Item No. 1

October 19, 2021

To: Engineering Committee
From: David S. Gould, P.E. – Director of Engineering & Operations
Subject: Discussion for Request for Proposal for 2022 Wastewater Master Plan – Project M-1037

BACKGROUND:

In 1975, the District, under the Clean Water Act was required by the Department of Water Resources to remove the existing sewer septic system and install a new wastewater collection system within the La Crescenta area. From 1980 to 1986, CVWD constructed about 64 miles of the new sewer collections system including sewer mains, manholes, lateral connections, and cleanouts and abandonment of the existing septic tanks system. In addition, a 6.2-mile sewer interceptor line was construction from the La Crescenta area, through the City of Glendale to the Los Angeles Glendale Water Reclamation Plant (LAGWRP) in Glendale for treatment and disposal of CVWD's wastewater.

When the sewer collections system piping system was designed in 1979, the design flow was based on estimated residential flow at that time and projection of future housing growth within the Crescenta Valley. In the last 35 years, the sewer flow characteristics within the service area have changed and we need the assistance of a professional consulting firm to prepare the 2022 Wastewater Master Plan as we look towards wastewater infrastructure upgrades into the future.

CVWD has an agreement with the City of Los Angeles (City of LA) for conveyance, treatment & disposal of CVWD's wastewater. The City of LA costs represents about 50% of the annual wastewater budget and we have seen a steady increase in cost over the last 5 years. Staff has concerns about the future costs from the City of LA and will be including in the WWMP a task to looking into alternative treatment systems.

DISCUSSION:

We are seeking proposals from qualified consulting firms to prepare the CVWD's 2022 Wastewater Master Plan (WWMP), which will be the District's first WWMP since the collection system was installed in the 1980's.

The goal of the WWMP's will be to evaluate and provide recommendations for the following:

- Review system-wide sewer flow characteristics, assess the existing hydraulic capacity of the collection system, force mains, and lift station, and evaluating pipeline and lift station conditions.
- Estimate future sewer flow based on population projections and potential development projects utilizing the Los Angeles County and City of La Canada Flintridge Future Land Use Map, General Plan and Housing Plan.
- Create and run a sewer hydraulic computer model that can be easily updated by staff.
- Determine potential pipeline replacement, size upgrades and/or rehabilitation needs based on the hydraulic model and future sewer flows.
- Create a prioritized 10-Year CIP sewer plan with a funding approach.
- Review CVWD's existing contract with the City of Los Angeles for treatment and disposal costs in preparation of future contract negotiations.
- Investigate potential alternatives for future treatment and disposal systems that could reduce CVWD's costs to the City of Los Angeles.

The Master Plan will help determine the CIP projects needed to repair, replace, and/or upgrade CVWD's aging infrastructure, to increase system operating efficiencies and reliability, while improving cost predictability and maintaining a high level of customer satisfaction as we move into the future.

Project Budget:

Staff has estimated the cost of the 2022 WWMP at \$175,000 and this amount was included in the FY 21/22 budget. This estimate was based on a preliminary scope of work and discussion with several consulting firms that proved WWMP services.

Project Schedule:

Staff's goal is to award the consultant contact at the December 14, 2021, board meeting and the WWMP should be completed by December 2022 as shown below.

Wastewater Master Plan Preliminary Project Schedule			
Task	State Date	End Date	Days
Draft RFP	Monday, September 13, 2021	Wednesday, October 13, 2021	30
Staff Report	Wednesday, October 13, 2021	Friday, October 15, 2021	2
Engineering Com	Friday, October 15, 2021	Tuesday, October 19, 2021	4
Final RFP	Tuesday, October 19, 2021	Tuesday, October 26, 2021	7
Send out	Tuesday, October 26, 2021	Thursday, October 28, 2021	2
Pre-Proposal Mtg	Thursday, October 28, 2021	Wednesday, November 17, 2021	20
Proposal Due	Wednesday, November 17, 2021	Wednesday, December 1, 2021	14
Staff Report	Wednesday, December 1, 2021	Friday, December 10, 2021	9
Board Meeting - Award Contract	Friday, December 10, 2021	Tuesday, December 14, 2021	4
Kickoff Mtg	Tuesday, December 14, 2021	Tuesday, January 11, 2022	28
Data Request	Tuesday, January 11, 2022	Tuesday, January 25, 2022	14
50% Submittal	Tuesday, January 25, 2022	Wednesday, May 25, 2022	120
90% Submittal	Wednesday, May 25, 2022	Thursday, November 10, 2022	169
Staff Report	Thursday, November 10, 2022	Friday, November 11, 2022	1
Engineering Com	Friday, November 11, 2022	Tuesday, November 15, 2022	4
100% Submittal	Tuesday, November 15, 2022	Wednesday, December 7, 2022	22
Staff Report	Wednesday, December 7, 2022	Friday, December 9, 2022	2
Board Meeting - Approved	Friday, December 9, 2022	Tuesday, December 13, 2022	4

RECOMMENDATION:

It is staff's recommendation to send out the request for proposal to qualified consulting firms for the 2022 WWMP that will be due on December 1, 2022. Staff will review each proposal based on ranking of the consultants understanding of the project concept, scope of work, previous work experience, project schedule and project costs. Staff will review the proposals with the Engineering Committee for recommendation to the Board of Directors.

Prepared & Submitted by:



David S. Gould, P.E.
Director of Engineering & Operations

Attachments:

1. Draft Request for Proposal



2022 WASTEWATER MASTER PLAN

Project M-1037

Request for Proposal

Proposal Delivery Due Date:

Wednesday, December 1, 2021

12:00 PM PST

Delivery Address:

Crescenta Valley Water District
Attn: Brook Yared, Engineering Manager
2700 Foothill Blvd
La Crescenta, CA 91214

1. INTRODUCTION:

Crescenta Valley Water District (CVWD) is seeking proposals from qualified consultants to provide engineering services to prepare CVWD's 2022 Wastewater Master Plan (WWMP), which will be the District's first WWMP since the collection system was installed in the 1980's.

The WWMP's goal is to evaluate the system-wide flow characteristics, assess existing hydraulic capacity of the collection system, force mains, and a lift station, evaluate pipeline and lift station conditions, determine potential replacement and/or rehabilitation needs, and create a prioritized 10-Year CIP plan with a funding approach to allow a sustainable level of service to the District's customers. The Master Plan will help determine the CIP projects needed to repair, replace, and/or upgrade CVWD's aging infrastructure, to increase system operating efficiencies and reliability, while improving cost predictability and maintaining a high level of customer satisfaction into the future.

Additional goals for the WWMP will be to review CVWD's existing contract with the City of Los Angeles for treatment and disposal costs in preparation of future contract negotiations and to investigate and review potential alternatives for future treatment and disposal systems that could reduce CVWD's costs to the City of Los Angeles.

Proposal Requirements:

Prospective firms are required to provide team qualification, proposed work plan, proposed schedule, and other related items as described in this Request for Proposals (RFP). All services provided by the consultant shall be performed by individuals who meet the qualifications, education, and certification/licensing requirements for a WWMP.

Qualified firms that submit a proposal will be evaluated in accordance with the requirements defined within this RFP. Upon successful negotiations with the District, the selected firm will provide professional services for the Wastewater Master Plan as described in this RFP.

A virtual pre-proposal meeting is scheduled for November 9, 2021, at 10:00 a.m.

All communications and questions relative to this RFP shall be directed in writing no later than November 11, 2019, 3:00 p.m. Questions submitted after this date will not receive a response. CVWD will respond in writing to each question and include the pre-proposal meetings notes by November 16, 2021.

Please submit one (1) copy of the proposal as a PDF file via e-mail by 12:00 pm on December 1, 2021, to byared@cvwd.com. Send three (3) copies of the proposal to the attention of Mr. Brook Yared, Engineering Manager at Crescenta Valley Water District, 2700 Foothill Boulevard, La Crescenta CA 91214.

2. BACKGROUND

Crescenta Valley Water District (CVWD or the District) was formed as a “County” Water District in 1950 to provide water service to the La Crescenta area (unincorporated Los Angeles County) and portions of Glendale and La Canada Flintridge. In 1975, the District, under the Clean Water Act was required by the Department of Water Resources to remove the existing sewer septic system and install a new wastewater collection system within the La Crescenta area.

CVWD Wastewater Collection System:

In 1979, CVWD created Assessment District 79-1 (Above Foothill Blvd) & 79-2 (Below Foothill Blvd) to collect funds for installation of the new sewer system and connection of customers to the new sewer laterals. CVWD’s Sewer Assessment District boundary is different than the Water District boundary and water service area. The Sewer Assessment District includes the La Crescenta area (unincorporated LA County) and small part of La Canada Flintridge. The sewer system does not include any areas within the City of Glendale. The District has about 6,300 sewer accounts, which is less than its 8,100 water accounts.

From 1980 to 1986, CVWD constructed about 64 miles of new sewer collections system including sewer mains, manholes, lateral connections, and cleanouts as shown on the attached sewer atlas. At that time, customers were required to abandon their existing septic tanks system and connect their property to the new sewer laterals.

In addition, a separate 6.2 mile, 21-inch to 27-inch sewer main was construction from the La Crescenta area, through the City of Glendale to the Los Angeles Glendale Water Reclamation Plant (LAGWRP) near the intersection of the 5 freeway and 134 freeway in Glendale. This sewer main called “Sewer Interceptor Line” transmits all CVWD’s wastewater flow to LAGWRP.

In 1990, CVWD installed a Nitrate Removal Ion Exchange Treatment plant at its Glenwood facilities to remove nitrates from local groundwater. The ion exchange process creates brine waste during regeneration of the ion resin. The brine waste is stored in a 64,000-gallon waste tank and between 12 am and 2 am, the brine waste is pumped into the sewer interceptor line. Since the brine waste could upset the biological process at LAGWRP, a valve was installed that diverts CVWD’s sewer flow from LAGWRP to the Hyperion Water Reclamation Plant in Playa Del Rey.

Wastewater Treatment & Disposal Agreements

From 1985 to 2005, CVWD had an agreement with the City of Glendale for the treatment & disposal of CVWD’s wastewater. CVWD paid Glendale for part of its capacity at LAGWRP and treatment costs to the City of Los Angeles. The agreement between Glendale and CVWD was terminated in 2004.

In 2005, CVWD enter into an agreement with the City of Los Angeles (City of LA) for conveyance, treatment & disposal of wastewater, which will be renewed in 2030 and CVWD became one of the 24 contracting agencies to the City of LA. The City of LA contract includes universal terms and conditions that were negotiated between Los Angeles and the original contracting entities that provides the same cost recovery for the amalgamated system expenses based on quantity of flow and strength of sewage.

The Amalgamated System Sewerage System Charges (ASSSC) are charged to CVWD to recover CVWD’s proportional share of the Net Amalgamated System expenses. The ASSSC consists of two components 1) Operations & Maintenance charges and 2) Capital Improvement charges, which are paid on an annual basis. A summary of City of LA charges are included in Appendix “_”

CVWD also has specific terms as part of the City of LA Agreement that includes the following:

- City of La Canada Flintridge transports a portion of their sewer system through CVWD’s system to City of LA for the treatment and disposal of its wastewater. The flow and strength of discharged from La Canada to CVWD’s facilities is subtracted from the quantity measured at CVWD’s Monitoring Station in determining CVWD’s quantity of flow and strength.

- Calculation of Contracting Entity's MGD-miles is based all or part of the wastewater tributary to LAGWRP that may be diverted from the North Outfall Sewer or other sewers into LAGWRP.
- Bypass of Nitrate Wastewater – All wastewater from CVWD shall bypass the Los Angeles-Glendale Water Reclamation Plant through a bypass sewer when it contains nitrate laden wastewater and includes a diverter valve to insure the diversion of nitrate laden wastewater into the North Outfall bypass sewer.

The City of LA agreement also includes Amalgamated System Sewerage Facilities Charges (ASSFC) which covers CVWD responsible to the City of LA for any new or upgraded land use changes relative to new developments.

Attached for review are two (2) presentations with respect to the “Overview & History of CVWD’s Wastewater System – Part 1 & Part 2.

DRAFT

3. SCOPE OF SERVICES

The scope of services should include data collection and assessment of existing wastewater collection system, research and incorporate updates to the General Plan or specific plans that will impact future buildout assumptions, system capacity, and calculations for development fees, evaluate the wastewater condition and capacity assessments, development of a wastewater hydraulic model, preparation of a 10-year capital improvement program, wastewater treatment & disposal alternative study and evaluate operation and maintenance program as discussed herein.

Data Collection and Assessment of Wastewater System:

- A. Consultant should become fully familiar with CVWD's wastewater mains, lift station, sewer interceptor, divertor valve and appurtenance and be able to provide a conditional assessment. This will require the consultant to perform some field assessment and not solely rely on District's GIS or as-built plans.
- B. Consultant should review any available pertinent records that will assist in the preparation of the WWMP.
- C. Consultant should review the District's Sewer System Management Plan (SSMP) to be included in the WWMP and provide recommendations.
- D. Consultant should perform an Infiltration and Inflow (I&I) study based on available information from the District.
- E. Consultant should develop a flow monitoring program including:
 - i. Conduct field verification and data collection to obtain measured system data for determining existing capacities, various land use loading factors, future capacities, and projections, and for supporting the wastewater hydraulic modeling calibration.
 - ii. Consultant shall utilize best available technologies to ensure accurate data collection.
 - iii. Identify appropriate locations/ stations for flow monitoring and daily flow within the collection system; perform flow monitoring and collect needed data under wet and dry weather conditions. Appropriate numbers of flow meters shall be in place for a minimum duration of at least 30 days.
 - iv. Perform field verification and comprehensive assessment of existing facilities.

Population and Development Projections:

- A. Consultant should review the Los Angeles County and City of La Canada Flintridge Future Land Use Map, General Plan and Housing Plan to develop land use data and criteria.
- B. District to provide population projections and potential development projects for the Consultant to review.
- C. Consultant should review all active or current Development projects.
- D. Consultant should review current and future flow into CVWD's lift station.

Condition/Capacity Assessments:

- A. Consultant should review and analyze existing wastewater flows, estimated sewage flow, and develop land use data and criteria.
- B. Consultant should perform an evaluation of the District's conveyance system for existing and future capacity before and after installation of flow monitoring stations.
- C. Consultant should perform an evaluation of the District's Lift Station including a full condition assessment and capacity analysis for both existing and future.

- D. Consultant should develop preferred solutions and/or alternative solutions to correct deficiencies within the wastewater collection system.
- E. It is the District's expectation that the consultant will utilize the best available technologies appropriate to this study, which results in gathering the most accurate large-scale condition data of the sewer infrastructure.
- F. Consultant should document known system deficiencies, maintenance efforts, and identify possible future capital improvement projects.
- G. Consultant should assess the exiting capacity of the system, specifically identifying the critical segments based on the data gathered from the field, existing documents, and projected growth.
- H. Consultant should identify the critical segments in the order of priority that require immediate, near-term, and long-term attention.

Hydraulic Model Development:

- A. Consultant should develop a dynamic, comprehensive hydraulic model from the compiled data. Utilizing an agreed upon software platform.
- B. Consultant should develop a detailed hydraulic model of the wastewater collection system using CVWD's existing GIS information and calibrated against collected flow monitoring data.

Capital Improvement Plan Development:

- A. Consultant should identify and prioritize future capacity projects for the wastewater collection system, lift station, sewer interceptor and appurtenances by existing and future EDUs.
- B. Consultant should develop a procedure for evaluating the condition of existing infrastructure and prioritization of improvements.
- C. Consultant should address existing and future anticipated State Water Board and EPA regulations along with their impacts to the CVWD's wastewater systems including:
 - a. Capacity, Management, Operations and Maintenance (CMOM) Program
 - b. Inflow and Infiltration (I/I) study
 - c. Sanitary Sewer Overflow (SSO) Initiatives.
- D. Consultant should address existing and future issues related to the system's functionality.
- E. Consultant should develop a multi-year phased capital improvement program including short term (1-5 years) and long term (5-10 years) programs.
- F. Consultant should prioritize improvements with engineered cost estimates and escalators (CPI).
- G. Consultant should develop individual project sheets for each recommended improvement.

Wastewater Treatment & Disposal Alternative Study

- A. Consultant should review the City of Los Angeles Agreement including universal terms and specific terms and provide recommendations in anticipation of contract renewal in 2030.
- B. Consultant should provide a technical study of possible alternative treatment and disposal systems that should including the following:
 - a. Identify potential wastewater treatment technologies and options
 - b. Identify potential permitting issues and requirements

- c. Perform a preliminary siting study to evaluate potential sites for a wastewater treatment plant.
- d. Evaluate potential uses of advanced treated tertiary recycled water effluent for application within CVWD service area or other benefit to CVWD via regional stakeholder partnership
- e. Identify potential stakeholders and partnerships that would impact project implementation and/or project costs
- f. Identify potential CEQA considerations and requirements, include a cursory environmental and public health risk assessment.
- g. Determine impacts on personnel and certifications
- h. Develop multiple alternatives to consider (including status quo) to collect, treat, dispose or reuse treated wastewater effluent. Perform a life-cycle economic evaluation to derive a preliminary recommendation based on least cost.
- i. Determine a preliminary project implementation schedule, a not-to-exceed project cost, and a preferred project delivery method.

Evaluate Operation and Maintenance Program

- A. Evaluate existing operation and maintenance practices and identify specific improvements in current level of service and maintenance program where areas of opportunities allow.
- B. Prepare detailed lists and goals required to meet level of service goals consistent with local and State regulatory agencies. Include applicable cost estimates, and comparable costs against similar type operations and maintenance programs of other municipal agencies, etc.

Public Meetings and Presentations

- A. Consultant should plan to attend two (2) workshop meetings with the CVWD's Engineering Committee
- B. Consultant should plan for one (1) formal presentation to CVWD's Board of Directors.

Project Meetings

- A. Attend a kick-off meeting to begin the project. Meet or confer with District staff as needed
- B. Prepare related graphics, composite development land use and demand maps, and Geographic Information System (GIS) shape files

Project Schedule

- A. Provide a project schedule for developing the preliminary and final reports and WWMP adoption.
- B. The final report shall be delivered to the District within **365 days** or sooner from Notice to Proceed.

Update of Engineering Design Standards:

- A. Consultant should review and update District's standard wastewater construction drawings, specifications, requirements, and regulatory criteria.

Annual Hydraulic Model Update:

- A. Consultant should provide a cost estimate for an annual hydraulic model update for annual developments and new GIS information within the system.
- B. Consultant should provide an hourly cost basis to review and analyze proposed development projects utilizing the developed model on an on-call basis.

Prepare and Submit Draft and Final Master Plan Reports

- A. Provide a complete package of the WWMP including Executive Summary, Maps & Exhibits for approval and adoption.

- B. Submit, as a deliverable task, a draft, final draft, and final report to the City. All reports must be in hardcopy prints, Microsoft Word, and Adobe PDF file formats.
- C. Consultant should provide the digital Wastewater System Model.
- D. Consultant should provide supporting wastewater system model operating manual

4. PROPOSAL CONTENT AND REQUIREMENTS

- A. Title Page
- B. Table of Contents
- C. Statement of Qualifications
- D. Company Information
- E. Subcontractor Information
- F. Project Team
- G. Project Approach
- H. Project Schedule
- I. Fee and Fee Schedule
- J. Experience
- K. References
 - a. Three (3) references from similar projects performed within the last five -years.
 - b. References for water agencies or cities of comparable size and terrain to CVWD (approximately 10,000 service connections in a challenging terrain).

5. Additional Requirements

- A. Consultant's Representative - The proposal shall name a responsible representative, an alternate, and all sub-consultants to perform the assigned tasks. The chosen consultant's representative will remain responsible and in charge of all duties from contract negotiations through project completion. If the primary representative is unable to continue with the project, then the alternate representative will become the primary representative. The District must approve any other changes in responsible representative, in advance. The District will have the right to reject other proposed changes in personnel and may consider any other changes in responsible personnel a breach of contract.
- B. Professional Service Agreement - The chosen consultant shall be responsible for completing the specified services in accordance with the District's standard "Professional Services Agreement," which will be prepared by the District. Services specified in this agreement shall be taken directly from the consultant's accepted proposal and from this "Request for Proposal", if applicable.
- C. Insurance Requirements - The District will require employer's liability, comprehensive commercial liability insurance, and errors and omissions insurance coverage for at least \$2,000,000 and comprehensive automobile liability for at least \$1,000,000. The District requires that the District be named as additional insured on the policy and such insurance policy shall not be terminated or canceled without thirty (30) days prior written notice to the District.
- D. District Reimbursements - The District normally reimburses consultants for the actual cost (plus 15%) for all outside expenses, including those for material costs authorized in advance by the District. Other reasonable expenses will be reimbursed where such costs have been advanced by consultant and approved by the District. The chosen consultant shall not be compensated for use of computers, office equipment, hardware, or software materials. Said costs are not compensated and time expended by consultant's personnel on such equipment is included within the hourly rate as shown on the consultant's fee schedule.

- E. District Responsibilities - District will provide the following to assist the selected consultant with the project and its completion:
- a. Geographic information system (GIS) information and topographic surveys as available.
 - b. Reports, plans, and drawings, as available and pertinent to the WWMP.
 - c. Design criteria, preferred manufacturer's information, and other technical information, as available and pertinent to the project.
 - d. Current operational condition and performance of existing infrastructure pertinent to the WWMP

6. EVALUATION PROCESS

CVWD reserves the right to contact all or any of the references provided in response; contact the Vendor to clarify any response; contact any current user of the Proposer's services or products; solicit information from any available source concerning any aspect of the information submitted; and seek and review any other information deemed pertinent.

CVWD reserves the right to consider other factors at its discretion.

Any award is contingent upon the successful negotiation of final contract terms. If contract negotiations cannot be concluded successfully, CVWD reserves the right to negotiate a contract with another Proposer or withdraw the RFP.

7. PROPOSAL DUE DATE:

Please submit one (1) copy of the proposal as a PDF file via e-mail by 12:00 pm on December 1, 2021, to byared@cvwd.com. Send three (3) copies of the proposal to the attention of Mr. Brook Yared, Engineering Manager at Crescenta Valley Water District, 2700 Foothill Boulevard, La Crescenta CA 91214.

Attachment No. 2

RFP #1 - Data Collection and Assessment of Wastewater System



2022 WASTEWATER MASTER PLAN

Project M-1037

Request for Proposal

Proposal Delivery Due Date:

Wednesday, March 23, 2022

12:00 PM PST

Delivery Address:

Crescenta Valley Water District
Attn: David Gould, Director of Engineering & Operations
2700 Foothill Blvd
La Crescenta, CA 91214

1. INTRODUCTION:

Crescenta Valley Water District (CVWD) is seeking proposals from qualified consultants to provide engineering services to prepare CVWD's 2022 Wastewater Master Plan (WWMP), which will be the District's first WWMP since the collection system was installed in the early 1980's.

The WWMP's goal is to evaluate the system-wide flow characteristics, assess existing hydraulic capacity of the collection system, force mains, and a lift station, evaluate pipeline and lift station conditions, determine potential replacement and/or rehabilitation needs, and create a prioritized 10-Year CIP plan with a funding approach to allow a sustainable level of service to the District's customers. The Master Plan will help determine the CIP projects needed to repair, replace, and/or upgrade CVWD's aging infrastructure, to increase system operating efficiencies and reliability, while improving cost predictability and maintaining a high level of customer satisfaction into the future.

A. Proposal Requirements:

Prospective firms are required to provide team qualification, proposed work plan, proposed schedule, and other related items as described in this Request for Proposals (RFP). All services provided by the consultant shall be performed by individuals who meet the qualifications, education, and certification/licensing requirements for a WWMP.

Qualified firms that submit a proposal will be evaluated in accordance with the requirements defined within this RFP. The selected firm will provide professional services for the Wastewater Master Plan as described in this RFP.

A virtual pre-proposal meeting is scheduled for February 23, 2022, at 10:00 am via Zoom Meeting. Zoom meeting details will be provided in letters to consultants.

All communications and questions relative to this RFP shall be directed in writing by email to David Gould at dgould@cvwd.com and shall be received no later than March 2, 2022, 12:00 p.m. Questions submitted after this date will not receive a response. CVWD will respond in writing to each question and include the pre-proposal meetings notes by March 4, 2022.

Please submit one (1) copy of the proposal as a PDF file via e-mail by 12:00 pm on March 23, 2022, to dgould@cvwd.com. Send three (3) copies of the proposal to the attention of Mr. David Gould, Director of Engineering & Operations at Crescenta Valley Water District, 2700 Foothill Boulevard, La Crescenta CA 91214. Copies of the proposal can be sent to CVWD's office on or after March 23, 2022.

2. BACKGROUND

Crescenta Valley Water District (CVWD or the District) was formed as a "County" Water District in 1950 to provide water service to the La Crescenta area (unincorporated Los Angeles County) and portions of Glendale and La Canada Flintridge. In 1975, the District, under the Clean Water Act was required by the Department of Water Resources to remove the existing sewer septic system and install a new wastewater collection system within the La Crescenta area.

A. CVWD Wastewater Collection System:

In 1979, CVWD created Assessment District 79-1 (Above Foothill Blvd) & 79-2 (Below Foothill Blvd) to collect funds for installation of the new sewer system and connection of customers to the new sewer laterals. CVWD's Sewer Assessment District boundary is different than the Water District boundary and water service area. See separate PDF file for CVWD's GIS Sewer Atlas Map.

The Sewer Assessment District includes the La Crescenta area (unincorporated LA County) and small part of La Canada Flintridge. The sewer system does not include any areas within the City of Glendale. The District has about 6,300 sewer accounts, which is less than its 8,100 water accounts.

From 1980 to 1986, CVWD constructed about 64 miles of new sewer collections system including sewer mains, manholes, lateral connections, and cleanouts as shown on the attached sewer atlas. At that time,

customers were required to abandon their existing septic tanks system and connect their property to the new sewer laterals. In addition, a separate 6.2 mile, 21-inch to 27-inch sewer main was construction from the La Crescenta area, through the City of Glendale to the Los Angeles Glendale Water Reclamation Plant (LAGWRP) near the intersection of the 5 freeway and 134 freeway in Glendale. This sewer main called "Sewer Interceptor Line" transmits all CVWD's wastewater flow to LAGWRP.

In 1990, CVWD installed a Nitrate Removal Ion Exchange Treatment plant at its Glenwood facilities to remove nitrates from local groundwater. The ion exchange process creates brine waste during regeneration of the ion resin. The brine waste is stored in a 64,000-gallon waste tank and between 12 am and 2 am, the brine waste is pumped into the sewer interceptor line. Since the brine waste could upset the biological process at LAGWRP, a valve was installed that diverts CVWD's sewer flow from LAGWRP to the Hyperion Water Reclamation Plant in Playa Del Rey.

CVWD has an existing flow monitoring station located on Elk Street within the City of Glendale. The flow monitoring station is owned and maintained by ADS Environmental Services, which provides flow and strength data to the City of Los Angeles. Included in Appendix "A" is the 2021 – 3rd quarter report to City of Los Angeles and CVWD sewer flows from 1982 to present for reference.

B. Wastewater Treatment & Disposal Agreements

From 1985 to 2005, CVWD had an agreement with the City of Glendale for the treatment & disposal of CVWD's wastewater. CVWD paid Glendale for part of its capacity at LAGWRP and treatment costs to the City of Los Angeles. The agreement between Glendale and CVWD was terminated in 2004.

In 2005, CVWD enter into an agreement with the City of Los Angeles (City of LA) for conveyance, treatment & disposal of wastewater, which will be renewed in 2030 and CVWD became one of the 24 contracting agencies to the City of LA. The City of LA contract includes universal terms and conditions that were negotiated between Los Angeles and the original contracting entities that provides the same cost recovery for the amalgamated system expenses based on quantity of flow and strength of sewage.

The Amalgamated System Sewerage System Charges (ASSSC) are charged to CVWD to recover CVWD's proportional share of the Net Amalgamated System expenses. The ASSSC consists of two components 1) Operations & Maintenance charges and 2) Capital Improvement charges, which are paid on an annual basis. A summary of City of LA charges is included in Appendix "B". See separate PDF file of CVWD's contract with the City of LA.

CVWD also has specific terms as part of the City of LA Agreement that includes the following:

- City of La Canada Flintridge transports a portion of their sewer system through CVWD's system to City of LA for the treatment and disposal of its wastewater. The flow and strength of discharged from La Canada to CVWD's facilities is subtracted from the quantity measured at CVWD's Monitoring Station in determining CVWD's quantity of flow and strength.
- Calculation of Contracting Entity's MGD-miles is based all or part of the wastewater tributary to LAGWRP that may be diverted from the North Outfall Sewer or other sewers into LAGWRP.
- Bypass of Nitrate Wastewater – All wastewater from CVWD shall bypass the Los Angeles-Glendale Water Reclamation Plant through a bypass sewer when it contains nitrate laden wastewater and includes a diverter valve to insure the diversion of nitrate laden wastewater into the North Outfall bypass sewer.

The City of LA agreement also includes Amalgamated System Sewerage Facilities Charges (ASSFC) which covers CVWD responsible to the City of LA for any new or upgraded land use changes relative to new developments.

CVWD has done two (2) presentations with respect to the Overview & History of CVWD's Wastewater System – Part 1 & Part 2 which can be found at <https://www.cvwd.com/wastewater>.

3. SCOPE OF SERVICES

The scope of services should include data collection and assessment of existing wastewater collection system, research and incorporate updates to the General Plan or specific plans that will impact future buildout assumptions, system capacity, evaluate the wastewater condition and capacity assessments, development of a wastewater hydraulic model, and preparation of a 10-year capital improvement program as discussed herein.

A. Data Collection and Assessment of Wastewater System:

1. Consultant should become fully familiar with CVWD's wastewater mains, lift station, sewer interceptor, divertor valve and appurtenance and be able to provide a conditional assessment. This will require the consultant to perform some field assessment and not solely rely on District's GIS or as-built plans.
2. Consultant should review any available pertinent records that will assist in the preparation of the WWMP.
3. Consultant should develop a flow monitoring program including:
 - i. Conduct field verification and data collection to obtain measured system data for determining existing capacities, various land use loading factors, future capacities, and projections, and for supporting the wastewater hydraulic modeling calibration.
 - ii. Consultant shall utilize best available technologies to ensure accurate data collection.
 - iii. Identify appropriate locations/ stations for flow monitoring and daily flow within the collection system; perform flow monitoring and collect needed data under wet and dry weather conditions. Appropriate numbers of flow meters shall be in place for a minimum duration of at least 30 days.
 - iv. Perform field verification and comprehensive assessment of existing facilities.

B. Population and Development Projections:

1. Consultant should review the Los Angeles County and City of La Canada Flintridge Future Land Use Map, General Plan and Housing Plan to develop land use data and criteria.
2. District to provide population projections and potential development projects for the Consultant to review.
3. Consultant should review all active or current Development projects.
4. Consultant should review current and future flow into CVWD's lift station.
5. Prepare related graphics, composite development land use and demand maps, and Geographic Information System (GIS) shape files

C. Condition/Capacity Assessments:

1. Consultant should review and analyze existing wastewater flows, estimated sewage flow, and develop land use data and criteria.
2. Consultant should perform an evaluation of the District's conveyance system for existing and future capacity before and after installation of flow monitoring stations.
3. Consultant should perform an evaluation of the District's Lift Station including a full condition assessment and capacity analysis for both existing and future.
4. Consultant should develop preferred solutions and/or alternative solutions to correct deficiencies within the wastewater collection system.
5. It is the District's expectation that the consultant will utilize the best available technologies, which results in gathering the most accurate large-scale condition data of the sewer infrastructure.

6. Consultant should document known system deficiencies, maintenance efforts, and identify possible future capital improvement projects.
7. Consultant should assess the exiting capacity of the system, specifically identifying the critical segments based on the data gathered from the field, existing documents, and projected growth.
8. Consultant should identify the critical segments in the order of priority that require immediate, near-term, and long-term attention.

D. Hydraulic Model Development:

1. Consultant should develop a dynamic, comprehensive hydraulic model from the compiled data. Utilizing an agreed upon software platform such as Innovyze "InfoSewer".
2. Consultant should develop a detailed hydraulic model of the wastewater collection system using CVWD's existing GIS information & calibrated against collected flow monitoring data.
3. Consultant should provide an optional cost estimate for an annual hydraulic model update for annual developments and new GIS information within the system.
4. Consultant should provide an optional hourly cost basis to review and analyze proposed development projects utilizing the developed model on an on-call basis.

E. Capital Improvement Plan Development:

1. Consultant should identify and prioritize future capacity projects for the wastewater collection system, lift station, sewer interceptor and appurtenances.
2. Consultant should develop a procedure for evaluating the condition of existing infrastructure and prioritization of improvements.
3. Consultant should address existing and future issues related to the system's functionality.
4. Consultant should develop a multi-year phased capital improvement program including short term (1-5 years) and long term (5-10 years) programs.
5. Consultant should prioritize improvements with engineered cost estimates and escalators (CPI).
6. Consultant should develop individual project sheets for each recommended improvement.

F. Public Meetings and Presentations

1. Consultant should plan to attend two (2) workshop meetings with the CVWD's Engineering Committee.
2. Consultant should plan for one (1) formal presentation to CVWD's Board of Directors.

G. Project Meetings

1. Attend a kick-off meeting to begin the project. Meet or confer with District staff as needed.

H. Project Schedule

1. Provide a project schedule for developing the preliminary and final reports and WWMP adoption.
2. The final report shall be delivered to the District within **one (1) year** or sooner from Notice to Proceed.

I. Prepare and Submit Draft and Final Master Plan Reports

1. Provide a complete package of the WWMP including Executive Summary, Maps & Exhibits for approval and adoption.
2. Submit, as a deliverable task, a draft, final draft, and final report to the District. All reports must be in hardcopy prints, Microsoft Word, and Adobe PDF file formats.
3. Consultant should provide a digital copy of the Wastewater System Model.
4. Consultant should provide supporting wastewater system model operating manual.

4. PROPOSAL CONTENT AND REQUIREMENTS:

- A. Title Page
- B. Table of Contents
- C. Statement of Qualifications
- D. Company Information
- E. Subcontractor Information
- F. Project Team
- G. Project Approach
- H. Project Schedule
- I. Fee and Fee Schedule
- J. Experience
- K. References
 1. Three (3) references from similar projects performed within the last five years.
 2. References for water agencies or cities of comparable size and terrain to CVWD (approximately 10,000 service connections in a challenging terrain).

5. ADDITIONAL REQUIREMENTS

- A. Consultant's Representative - The proposal shall name a responsible representative, an alternate, and all sub-consultants to perform the assigned tasks. The chosen consultant's representative will remain responsible and in charge of all duties from contract negotiations through project completion. If the primary representative is unable to continue with the project, then the alternate representative will become the primary representative. The District must approve any other changes in responsible representative, in advance. The District will have the right to reject other proposed changes in personnel and may consider any other changes in responsible personnel a breach of contract.
- B. Professional Service Agreement - The chosen consultant shall be responsible for completing the specified services in accordance with the District's standard "Professional Services Agreement," sample agreement in Appendix "C". Services specified in this agreement shall be taken directly from the consultant's accepted proposal and from this "Request for Proposal", if applicable.
- C. Insurance Requirements - The District will require employer's liability, comprehensive commercial liability insurance, and errors and omissions insurance coverage for at least \$2,000,000 and comprehensive automobile liability for at least \$1,000,000. The District requires that the District be named as additional insured on the policy and such insurance policy shall not be terminated or canceled without thirty (30) days prior written notice to the District.
- D. District Reimbursements - The District normally reimburses consultants for the actual cost (plus 15%) for all outside expenses, including those for material costs authorized in advance by the District. Other reasonable expenses will be reimbursed where such costs have been advanced by consultant and approved by the District. The chosen consultant shall not be compensated for use of computers, office equipment, hardware, or software materials. Said costs are not compensated and time expended by consultant's personnel on such equipment is included within the hourly rate as shown on the consultant's fee schedule.

E. District Responsibilities - District will provide the following to assist the selected consultant with the project and its completion:

- i. Geographic information system (GIS) information and topographic surveys as available.
- ii. Reports, plans, and drawings, as available and pertinent to the WWMP.
- iii. Design criteria, preferred manufacturer's information, and other technical information, as available and pertinent to the project.
- iv. Current operational condition and performance of existing infrastructure pertinent to the WWMP

6. EVALUATION PROCESS

CVWD reserves the right to contact all or any of the references provided in response; contact the Vendor to clarify any response; contact any current user of the Proposer's services or products; solicit information from any available source concerning any aspect of the information submitted; and seek and review any other information deemed pertinent.

CVWD reserves the right to consider other factors at its discretion.

Any award is contingent upon the successful negotiation of final contract terms. If contract negotiations cannot be concluded successfully, CVWD reserves the right to negotiate a contract with another Proposer or withdraw the RFP.

7. PROPOSAL DUE DATE:

Please submit one (1) copy of the proposal as a PDF file via e-mail by 12:00 pm on March 23, 2022, to dgould@cvwd.com. Send three (3) copies of the proposal to the attention of Mr. David Gould, Director of Engineering & Operations at Crescenta Valley Water District, 2700 Foothill Boulevard, La Crescenta CA 91214. Copies of the proposal can be sent to CVWD's office on or after March 23, 2022.

Appendix "A"

2021 – 4th Quarter Final Report to City of Los Angeles and CVWD Sewer Flows from 1982 to 2021

Appendix "B"

City of Los Angeles Treatment and Conveyance Agreement And Summary of City of Los Angeles Charges

Appendix "C"

Sample Professional Services Agreement

Attachment No. 3

RFP #2 - Wastewater Treatment & Disposal Alternative Study



2022 Wastewater Treatment & Disposal Alternative Study

Project M-1037 **Request for Proposal**

Proposal Delivery Due Date:

Wednesday March 2, 2022

12:00 PM PST

Delivery Address:

Crescenta Valley Water District
Attn: David Gould, Director of Engineering & Operations
2700 Foothill Blvd
La Crescenta, CA 91214

1. INTRODUCTION:

Crescenta Valley Water District (CVWD) is seeking proposals from qualified consultants to provide engineering services to prepare the 2022 Wastewater Treatment & Disposal Alternative Study (Study).

The Study's goal to prepare a wastewater treatment & disposal alternative study to investigate and review potential alternatives for future treatment and disposal systems that could reduce CVWD's costs to the City of Los Angeles, as well as review CVWD's existing contract with the City of Los Angeles for treatment and disposal costs in preparation of future contract negotiations.

A. Proposal Requirements:

Prospective firms are required to provide team qualification, proposed work plan, proposed schedule, and other related items as described in this Request for Proposals (RFP). All services provided by the consultant shall be performed by individuals who meet the qualifications, education, and certification/licensing requirements for this Study

Qualified firms that submit a proposal will be evaluated in accordance with the requirements defined within this RFP. The selected firm will provide professional services for the Study as described in this RFP.

A virtual pre-proposal meeting is scheduled for February 16, 2022, at 10:00 am via Zoom Meeting. Zoom meeting details will be provided in letters to consultants.

All communications and questions relative to this RFP shall be directed in writing by email to David Gould at dgould@cvwd.com and shall be received no later than February 23, 2022, 12:00 p.m. Questions submitted after this date will not receive a response. CVWD will respond in writing to each question and include the pre-proposal meetings notes by February 25, 2022.

Please submit one (1) copy of the proposal as a PDF file via e-mail by 12:00 pm on March 2, 2022, to dgould@cvwd.com. Send three (3) copies of the proposal to the attention of Mr. David Gould, Director of Engineering & Operations at Crescenta Valley Water District, 2700 Foothill Boulevard, La Crescenta CA 91214. Copies of the proposal can be sent to CVWD's office on or after March 2, 2022.

2. BACKGROUND

Crescenta Valley Water District (CVWD or the District) was formed as a "County" Water District in 1950 to provide water service to the La Crescenta area (unincorporated Los Angeles County) and portions of Glendale and La Canada Flintridge. In 1975, the District, under the Clean Water Act was required by the Department of Water Resources to remove the existing sewer septic system and install a new wastewater collection system within the La Crescenta area.

A. CVWD Wastewater Collection System:

In 1979, CVWD created Assessment District 79-1 (Above Foothill Blvd) & 79-2 (Below Foothill Blvd) to collect funds for installation of the new sewer system and connection of customers to the new sewer laterals. CVWD's Sewer Assessment District boundary is different than the Water District boundary and water service area. See separate PDF file for CVWD's GIS Sewer Atlas Map.

The Sewer Assessment District includes the La Crescenta area (unincorporated LA County) and small part of La Canada Flintridge. The sewer system does not include any areas within the City of Glendale. The District has about 6,300 sewer accounts, which is less than its 8,100 water accounts.

From 1980 to 1986, CVWD constructed about 64 miles of new sewer collections system including sewer mains, manholes, lateral connections, and cleanouts as shown on the attached sewer atlas. At that time, customers were required to abandon their existing septic tanks system and connect their property to the new sewer laterals.

In addition, a separate 6.2 mile, 21-inch to 27-inch sewer main was construction from the La Crescenta area, through the City of Glendale to the Los Angeles Glendale Water Reclamation Plant (LAGWRP) near the intersection of the 5 freeway and 134 freeway in Glendale. This sewer main called "Sewer Interceptor Line" transmits all CVWD's wastewater flow to LAGWRP.

In 1990, CVWD installed a Nitrate Removal Ion Exchange Treatment plant at its Glenwood facilities to remove nitrates from local groundwater. The ion exchange process creates brine waste during regeneration of the ion resin. The brine waste is stored in a 64,000-gallon waste tank and between 12 am and 2 am, the brine waste is pumped into the sewer interceptor line. Since the brine waste could upset the biological process at LAGWRP, a valve was installed that diverts CVWD's sewer flow from LAGWRP to the Hyperion Water Reclamation Plant in Playa Del Rey.

CVWD has an existing flow monitoring station located on Elk Street within the City of Glendale. The flow monitoring station is owned and maintained by ADS Environmental Services, which provides flow and strength data to the City of Los Angeles. Included in Appendix "A" is the 2021 – 4th quarter report to City of Los Angeles and CVWD sewer flows from 1982 to present for reference.

B. Wastewater Treatment & Disposal Agreements

From 1985 to 2005, CVWD had an agreement with the City of Glendale for the treatment & disposal of CVWD's wastewater. CVWD paid Glendale for part of its capacity at LAGWRP and treatment costs to the City of Los Angeles. The agreement between Glendale and CVWD was terminated in 2004.

In 2005, CVWD enter into an agreement with the City of Los Angeles (City of LA) for conveyance, treatment & disposal of wastewater, which will be renewed in 2030 and CVWD became one of the 24 contracting agencies to the City of LA. The City of LA contract includes universal terms and conditions that were negotiated between Los Angeles and the original contracting entities that provides the same cost recovery for the amalgamated system expenses based on quantity of flow and strength of sewage.

The Amalgamated System Sewerage System Charges (ASSSC) are charged to CVWD to recover CVWD's proportional share of the Net Amalgamated System expenses. The ASSSC consists of two components 1) Operations & Maintenance charges and 2) Capital Improvement charges, which are paid on an annual basis. A summary of City of LA charges is included in Appendix "B". See separate PDF file of CVWD's contract with the City of LA.

CVWD also has specific terms as part of the City of LA Agreement that includes the following:

- City of La Canada Flintridge transports a portion of their sewer system through CVWD's system to City of LA for the treatment and disposal of its wastewater. The flow and strength of discharged from La Canada to CVWD's facilities is subtracted from the quantity measured at CVWD's Monitoring Station in determining CVWD's quantity of flow and strength.
- Calculation of Contracting Entity's MGD-miles is based all or part of the wastewater tributary to LAGWRP that may be diverted from the North Outfall Sewer or other sewers into LAGWRP.
- Bypass of Nitrate Wastewater – All wastewater from CVWD shall bypass the Los Angeles-Glendale Water Reclamation Plant through a bypass sewer when it contains nitrate laden wastewater and includes a diverter valve to insure the diversion of nitrate laden wastewater into the North Outfall bypass sewer.

The City of LA agreement also includes Amalgamated System Sewerage Facilities Charges (ASSFC) which covers CVWD responsible to the City of LA for any new or upgraded land use changes relative to new developments.

CVWD has done two (2) presentations with respect to the Overview & History of CVWD's Wastewater System – Part 1 & Part 2 which can be found at <https://www.cvwd.com/wastewater>.

3. SCOPE OF SERVICES

The scope of services should include data collection and assessment of existing wastewater collection system, research and incorporate updates to the General Plan or specific plans that will impact future buildout assumptions, system capacity, evaluate the wastewater condition and capacity assessments, development of a wastewater hydraulic model, preparation of a 10-year capital improvement program, wastewater treatment & disposal alternative study and evaluate operation and maintenance program as discussed herein.

A. Wastewater Treatment & Disposal Alternative Study

1. Consultant shall prepare a separate wastewater treatment & disposal alternative study that will be used to facilitate a much easier solicitation for partnerships and grant opportunities.
2. Consultant should review the City of Los Angeles Agreement including universal terms and specific terms and provide recommendations in anticipation of contract renewal in 2030.
3. Consultant should provide a technical study of possible alternative treatment and disposal systems that should including the following:
 - i. Identify potential wastewater treatment technologies and options.
 - ii. Identify potential permitting issues and requirements.
 - iii. Perform a preliminary siting study to evaluate potential sites for alternative wastewater treatment systems.
 - iv. Evaluate potential uses of advanced treated tertiary recycled water effluent for application within CVWD service area or other benefit to CVWD via regional stakeholder partnership such as groundwater recharge.
 - v. Identify potential stakeholders and partnerships that would impact project implementation and/or project costs
 - vi. Identify potential CEQA considerations and requirements, include a cursory environmental and public health risk assessment.
 - vii. Determine impacts on CVWD personnel and certifications (i.e., additional staff).
 - viii. Develop multiple alternatives to consider (including status quo) to collect, treat, dispose or reuse treated wastewater effluent.
 - ix. Perform a life-cycle economic evaluation to derive a preliminary recommendation based on least cost.
 - x. Determine a preliminary project implementation schedule, a not-to-exceed project cost, and a preferred project delivery method.

B. Public Meetings and Presentations

1. Consultant should plan to attend two (2) workshop meetings with the CVWD's Engineering Committee.
2. Consultant should plan for one (1) formal presentation to CVWD's Board of Directors.

C. Project Meetings

1. Attend a kick-off meeting to begin the project. Meet or confer with District staff as needed.

D. Project Schedule

1. Provide a project schedule for developing the preliminary, final and adoption of the study.
2. The final report shall be delivered to the District within **275 days** or sooner from Notice to Proceed.

E. Prepare and Submit Draft and Final Study

1. Provide a complete package of the Study including Executive Summary, Maps & Exhibits for approval and adoption.
2. Submit, as a deliverable task, a draft, final draft, and final study to the District. All reports must be in hardcopy prints, Microsoft Word, and Adobe PDF file formats.
3. Consultant should provide a digital copy of the Study.

4. PROPOSAL CONTENT AND REQUIREMENTS:

- A. Title Page
- B. Table of Contents
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- J. Experience
- K. References
 1. Three (3) references from similar projects performed within the last five years.
 2. References for water agencies or cities of comparable size and terrain to CVWD (approximately 10,000 service connections in a challenging terrain).

4. ADDITIONAL REQUIREMENTS

- A. Consultant's Representative - The proposal shall name a responsible representative, an alternate, and all sub-consultants to perform the assigned tasks. The chosen consultant's representative will remain responsible and in charge of all duties from contract negotiations through project completion. If the primary representative is unable to continue with the project, then the alternate representative will become the primary representative. The District must approve any other changes in responsible representative, in advance. The District will have the right to reject other proposed changes in personnel and may consider any other changes in responsible personnel a breach of contract.
- B. Professional Service Agreement - The chosen consultant shall be responsible for completing the specified services in accordance with the District's standard "Professional Services Agreement," sample agreement in Appendix "C". Services specified in this agreement shall be taken directly from the consultant's accepted proposal and from this "Request for Proposal", if applicable.
- C. Insurance Requirements - The District will require employer's liability, comprehensive commercial liability insurance, and errors and omissions insurance coverage for at least \$2,000,000 and comprehensive automobile liability for at least \$1,000,000. The District requires that the District be named as additional insured on the policy and such insurance policy shall not be terminated or canceled without thirty (30) days prior written notice to the District.
- D. District Reimbursements - The District normally reimburses consultants for the actual cost (plus 15%) for all outside expenses, including those for material costs authorized in advance by the District. Other reasonable expenses will be reimbursed where such costs have been advanced by consultant and approved by the District. The chosen consultant shall not be compensated for use of computers, office equipment, hardware, or software materials. Said costs are not compensated and time expended by consultant's personnel on such equipment is included within the hourly rate as shown on the consultant's fee schedule.

- E. District Responsibilities - District will provide the following to assist the selected consultant with the project and its completion:
- i. Geographic information system (GIS) information and topographic surveys as available.
 - ii. Reports, plans, and drawings, as available and pertinent to the Study.
 - iii. Design criteria, preferred manufacturer's information, and other technical information, as available and pertinent to the project.
 - iv. Current operational condition and performance of existing infrastructure pertinent to the Study.

5. EVALUATION PROCESS

CVWD reserves the right to contact all or any of the references provided in response; contact the Vendor to clarify any response; contact any current user of the Proposer's services or products; solicit information from any available source concerning any aspect of the information submitted; and seek and review any other information deemed pertinent.

CVWD reserves the right to consider other factors at its discretion.

Any award is contingent upon the successful negotiation of final contract terms. If contract negotiations cannot be concluded successfully, CVWD reserves the right to negotiate a contract with another Proposer or withdraw the RFP.

6. PROPOSAL DUE DATE:

Please submit one (1) copy of the proposal as a PDF file via e-mail by 12:00 pm on March 2, 2022, to dgould@cvwd.com. Send three (3) copies of the proposal to the attention of Mr. David Gould, Director of Engineering & Operations at Crescenta Valley Water District, 2700 Foothill Boulevard, La Crescenta CA 91214. Copies of the proposal can be sent to CVWD's office on or after March 2, 2022.

Appendix "A"

City of Los Angeles Treatment and Conveyance Agreement And Summary of City of Los Angeles Charges

Appendix "B"

Sample Professional Services Agreement

Attachment No. 4

Preliminary Project Schedules For RFP #1 & RFP #2

Wastewater Master Plan - RFP #1

Preliminary Project Schedule

Task	State Date	End Date	Budget Year	Days
Revised RFP's	Wednesday, December 15, 2021	Wednesday, January 19, 2022		35
Staff Report	Wednesday, January 19, 2022	Friday, January 21, 2022		2
Engineering Com	Friday, January 21, 2022	Tuesday, January 25, 2022		4
Finalize RFP #1	Tuesday, January 25, 2022	Monday, January 31, 2022		6
Send out	Monday, January 31, 2022	Wednesday, February 2, 2022		2
Pre-Proposal Mtg	Wednesday, February 2, 2022	Wednesday, February 23, 2022		21
Proposal Due	Wednesday, February 23, 2022	Wednesday, March 23, 2022		28
Staff Report	Wednesday, March 23, 2022	Thursday, April 7, 2022		15
Board Meeting - Award Contract	Thursday, April 7, 2022	Tuesday, April 12, 2022	FY 21/22	5
Kickoff Mtg	Tuesday, April 12, 2022	Friday, April 29, 2022	FY 21/22	17
Data Request	Friday, April 29, 2022	Friday, May 20, 2022	FY 21/22	21
50% Submittal	Friday, May 20, 2022	Friday, September 16, 2022	FY 22/23	119
90% Submittal	Friday, September 16, 2022	Wednesday, March 1, 2023	FY 22/23	166
Staff Report	Wednesday, March 1, 2023	Friday, March 3, 2023	FY 22/23	2
Engineering Com	Friday, March 3, 2023	Tuesday, March 7, 2023	FY 22/23	4
100% Submittal	Tuesday, March 7, 2023	Wednesday, April 5, 2023	FY 22/23	29
Staff Report	Wednesday, April 5, 2023	Friday, April 7, 2023	FY 22/23	2
Board Meeting - Approved	Friday, April 7, 2023	Tuesday, April 11, 2023	FY 22/23	4
\$ 325,000.00	25%	Estimated Consultant Cost	FY 21/22	\$ 81,250.00
	75%	Estimated Consultant Cost	FY 22/23	\$ 243,750.00
		Total		\$ 325,000.00

Wastewater Master Plan - RFP #2

Preliminary Project Schedule

Task	State Date	End Date	Budget Year	Days
Revised RFP's	Wednesday, December 15, 2021	Wednesday, January 19, 2022		35
Staff Report	Wednesday, January 19, 2022	Friday, January 21, 2022		2
Engineering Com	Friday, January 21, 2022	Tuesday, January 25, 2022		4
Finalize RFP #2	Tuesday, January 25, 2022	Monday, January 31, 2022		6
Send out	Monday, January 31, 2022	Wednesday, February 2, 2022		2
Pre-Proposal Mtg	Wednesday, February 2, 2022	Wednesday, February 16, 2022		14
Proposal Due	Wednesday, February 16, 2022	Wednesday, March 2, 2022		14
Staff Report	Wednesday, March 2, 2022	Thursday, March 17, 2022		15
Board Meeting - Award Contract	Thursday, March 17, 2022	Tuesday, March 22, 2022	FY 21/22	5
Kickoff Mtg	Tuesday, March 22, 2022	Tuesday, April 5, 2022	FY 21/22	14
Data Request	Tuesday, April 5, 2022	Tuesday, April 26, 2022	FY 21/22	21
50% Submittal	Tuesday, April 26, 2022	Friday, June 24, 2022	FY 22/23	59
90% Submittal	Friday, June 24, 2022	Thursday, September 15, 2022	FY 22/23	83
Staff Report	Thursday, September 15, 2022	Friday, September 16, 2022	FY 22/23	1
Engineering Com	Friday, September 16, 2022	Tuesday, September 20, 2022	FY 22/23	4
100% Submittal	Tuesday, September 20, 2022	Wednesday, October 19, 2022	FY 22/23	29
Staff Report	Wednesday, October 19, 2022	Friday, October 21, 2022	FY 22/23	2
Board Meeting - Approved	Friday, October 21, 2022	Tuesday, October 25, 2022	FY 22/23	4
\$ 200,000.00	45%	Estimated Consultant Cost	FY 21/22	\$ 90,000.00
	55%	Estimated Consultant Cost	FY 22/23	\$ 110,000.00
		Total		\$ 200,000.00

CRESCENTA VALLEY WATER DISTRICT

STAFF REPORT

Information Item No. 2

January 25, 2022

To: Engineering Committee
From: David S. Gould, P.E. – Director of Engineering & Operations
Subject: Discussion of Transferring 16 Water Services on the 4500 Block of Frederick Ave, 3400 Block of Thelma St, 3400 Block of Foothill Blvd and 4500 Block of New York to Glendale.

BACKGROUND:

CVWD's water service area extends beyond the District Boundary into the City of Glendale. This area has been referred to as the "Overlap Area" and there are about 2,400 accounts within Glendale that CVWD provides water service.

In 2008, this issue was brought to the attention of the Local Agency Formation Commission (LAFCO) regarding overlapping services within two jurisdictions. LAFCO recommended that CVWD and Glendale meet and discuss ways to resolve the service issues. Since then, CVWD and Glendale have worked together to transfer water services to Glendale, where possible within the Overlap Area. This typically occurs when CVWD is planning to replace a pipeline within the Overlap Area where CVWD and Glendale both have existing waterlines in the street. In 2009, CVWD transferred 10 water services to Glendale on the 5100 & 5200 blocks of Maryland as most of the street was already being served by Glendale.

DISCUSSION:

As part of the FY 21/22 CIP Budget, there are two pipeline projects within the Overlap Area that the water services could be transferred to Glendale instead of replacing the pipeline, which will result in a saving of construction costs.

Area 1 – 4500 Block of Frederick Ave:

The first area is along the 4500 Block of Frederick Ave located north of Foothill Blvd (See Exhibit A). There are 18 properties on Frederick Ave within Glendale servicing 15 properties and CVWD servicing three (3) properties. In addition, there are two (2) properties on Foothill Blvd and one (1) property on New York Ave that are also served by CVWD that will be transferred to Glendale.

There is an existing CVWD 2-inch pipeline, which was installed in 1929 that provides water services to the six (6) customers and the pipeline is on CVWD's replacement list. Glendale also has an existing 8-inch pipeline that services the Glendale customers on the same street.

Area 2 – 3400 Block of Thelma St.

The second area is the 3400 Block of Thelma St (See Exhibit B), where the existing 4-inch pipeline that was installed in 1940 was to be replaced as part of FY 21/22 pipeline replacement. There are seven (7) properties on Thelma St and three (3) properties on New York Ave that are served by CVWD. Glendale also has an existing 6-inch pipeline that is also located on Thelma St that could provide water service to these customers.

Transfer of Services:

Staff will be meeting with Glendale to investigate transferring these services, which will include the following tasks:

- Communicating with the homeowner about the transfer of service to Glendale.
- Providing a change of water service provider customer agreement for signature (see attached).
- Working with Glendale on the installation of new water service lines and meters.

- Relocation of Customer's water service line for 4547 New York near the northside of the house. The new location of the meter will be at the street on New York and a new 1" water service lines need to be installed from the new meter on the street to the house.
- Coordinating with CVWD field crews on the removal of the existing meter boxes and meters.

Staff plans to utilize John Robinson Consulting to assist with transferring services including coordination with Glendale, homeowners and CVWD so that the project is completed within the next four (4) months.

Staff met with Glendale on January 20, 2022, to discuss the transfer of service and associated costs for the installation of the new water service lines from Glendale and installation of new on-site water service for 4547 New York.

Cost/Benefit Analysis:

Staff performed a cost/benefit analysis with respect to losing revenue and construction cost. Table 1 below shows the average annual revenue and the pipeline replacement cost.

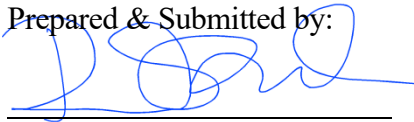
Table 1 - Cost/Benefit Analysis					FY 2016/17	FY 2017/18	FY 2018/19	FY 2019/20	FY 2020/21	5-year Average
ID No.	Address		Meter Size	Cust. Class	Total	Total	Total	Total	Total	
1	3445	Foothill	0.75	COM	\$758.80	\$802.63	\$757.86	\$1,323.88	\$1,677.70	\$1,064.17
2	3463	Foothill	1.00	COM	\$531.62	\$956.97	\$2,002.96	\$6,130.64	\$520.62	\$2,028.56
5	4534-36	Frederick	0.75	MFR	\$1,063.58	\$1,302.36	\$1,011.31	\$1,382.52	\$1,536.58	\$1,259.27
6	4508-10	New York	0.75	MFR	\$858.32	\$1,016.80	\$990.76	\$1,199.27	\$1,371.94	\$1,087.42
7	4512	New York	0.75	MFR	\$1,306.16	\$1,243.95	\$1,319.56	\$1,433.83	\$1,442.50	\$1,349.20
8	4514-16	New York	0.75	MFR	\$789.90	\$1,036.27	\$860.61	\$1,617.08	\$1,528.74	\$1,166.52
16	3354-56	Thelma	0.75	MFR	\$839.66	\$1,003.82	\$901.71	\$1,206.60	\$1,128.90	\$1,016.14
3	4508	Frederick	0.75	SFR	\$1,465.34	\$1,319.44	\$1,223.91	\$1,656.46	\$1,346.84	\$1,402.40
4	4528	Frederick	0.75	SFR	\$332.82	\$608.07	\$477.59	\$701.00	\$601.59	\$544.21
9	4547	New York	0.75	SFR	\$774.74	\$824.28	\$1,227.79	\$1,203.17	\$989.39	\$1,003.87
10	3330	Thelma	0.75	SFR	\$393.63	\$459.38	\$474.81	\$544.14	\$702.79	\$514.95
11	3333	Thelma	0.75	SFR	\$608.90	\$372.36	\$840.54	\$1,195.03	\$2,814.01	\$1,166.17
12	3337	Thelma	0.75	SFR	\$411.19	\$599.50	\$628.92	\$757.87	\$967.27	\$672.95
13	3338	Thelma	0.75	SFR	\$738.32	\$817.07	\$769.27	\$928.04	\$998.10	\$850.16
14	3341	Thelma	0.75	SFR	\$862.70	\$728.60	\$905.52	\$680.98	\$911.83	\$817.93
15	3345	Thelma	0.75	SFR	\$1,618.27	\$3,072.13	\$1,890.33	\$2,340.87	\$2,485.43	\$2,281.41
Total					\$13,353.95	\$16,163.63	\$16,283.45	\$24,301.38	\$21,024.23	\$18,225.33
Cost/Benefit Analysis										
ID No.	Block No.	Street Name	Year Const	Pipe Size (in)	Pipe Length (ft)	Cost/LF	Cost Estimate	Revenue used for CIP ⁽¹⁾ 5-year Avg.	Years to recover costs	
756	3300	Thelma	1946	4	330	\$ 450.00	\$ 148,500	\$6,119	24.3	
900	4500	Frederick	1929	2	975	\$ 450.00	\$ 438,750	\$6,119	71.7	
	Total				1305		\$ 587,250	\$6,119	96.0	

Notes:
1. Assume for a typical bill - 100% of the Monthly Service Charge & 20% of the Cost of Water are used for Pipeline Replacement Projects

RECOMMENDATION:

It is staff's recommendation to begin the process of transferring the water services to Glendale and finalize the project costs. Staff will bring this item to a future Board meeting for final approval of the transfer of service to Glendale

Prepared & Submitted by:

A handwritten signature in blue ink, appearing to read 'D. Gould', is written over a horizontal line.

David S. Gould, P.E.

Director of Engineering & Operations

Attachments:

1. Exhibit A – 4500 Block of Frederick Ave
2. Exhibit B – 3400 Block of Thelma Street
3. Sample – Change of Water Service Provider form

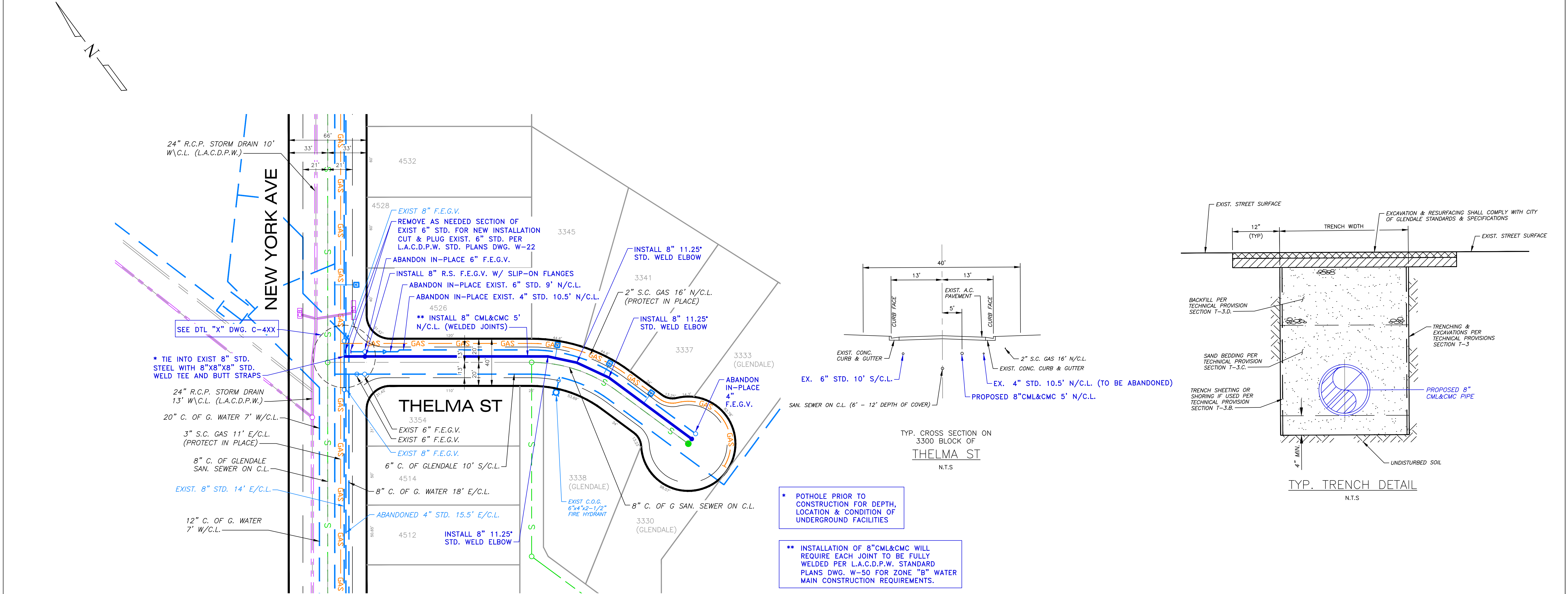
G:\Engineering Committee\2022 EC Memo\01-25-22 ECM Memo Fredrick-Thelma Transfer.docx

GENERAL NOTES:

- THE CONTRACTOR SHALL NOTIFY C.V.W.D. PROJECT ENGINEER CHRISTINA KOPELMAN FIVE (5) WORKING DAYS PRIOR TO STARTING WORK. AT (818) 248-3925.
- THE DISTRICT WILL EXECUTE ALL SHUT-DOWNS AND TURN-ONS. THE CONTRACTOR SHALL PROVIDE THE DISTRICT WITH AT LEAST (5) WORKING DAYS NOTICE. WATER TIGHT SHUT-DOWNS ARE NOT ASSURED BY THE DISTRICT; THEREFORE, THE CONTRACTOR SHALL BE PREPARED FOR VALVE LEAKAGE THAT MAY OCCUR DURING SYSTEM SHUT-DOWN.
- ALL WORK SHALL CONFORM TO C.V.W.D. STANDARD SPECIFICATIONS AND STANDARD DRAWINGS.
- ALL WATER SYSTEM INSTALLATIONS SHALL BE INSPECTED BY C.V.W.D.
- PIPE SHALL HAVE A MINIMUM OF 36 INCHES OF COVER AND A MAXIMUM OF 42 INCHES OF COVER FROM FINISHED GRADE. UNLESS OTHERWISE NOTED.
- ALL FIELD WELDING SHALL BE IN ACCORDANCE WITH AWWA C206.
- BACKFILL PROCEDURE SHALL BE COVERING THE PIPELINE WITH APPROVED BEDDING MATERIAL, HAND PLACED DEPTH OF 12 INCHES OR MORE ABOVE THE TOP OF THE PIPE. THE BALANCE OF BACKFILL SHALL CONTAIN NO STONES MORE THAN 2 INCHES IN THEIR LARGEST DIMENSION.
- THE CONTRACTOR SHALL HYDROSTATICALLY TEST ALL PIPE UPON COMPLETION. THE REQUIRED TEST SHALL BE IN ACCORDANCE WITH C.V.W.D. TECHNICAL PROVISIONS.
- FLUSHING AND DISINFECTION: UPON COMPLETION OF THE HYDROSTATIC TESTS, THE PIPES SHALL BE FLUSHED AND DISINFECTED. DISINFECTION SHALL BE IN ACCORDANCE WITH THE STANDARD FOR DISINFECTING WATER MAINS, (AWWA C601) AND SHALL BE SCHEDULED WITH C.V.W.D.
- ALL FITTINGS AND VALVES SHALL MEET C.V.W.D. SPECIFICATIONS.
- ALL CONNECTIONS TO EXISTING FACILITIES SHALL BE SCHEDULED WITH C.V.W.D. NO CONNECTIONS TO C.V.W.D. SYSTEM UNTIL PIPE HAS SUCCESSFULLY PASSED THE HYDROSTATIC AND DISINFECTION TEST.
- ALL SERVICE LATERALS SHALL CONFORM TO C.V.W.D. STANDARDS.
- ALL VALVE CANS SHALL BE RAISED TO FINISHED GRADE DURING FINAL PAVING.
- EXISTING METERS SHALL BE RECONNECTED PER TECHNICAL SPECIFICATION T-7.
- PROPERTIES WITH STREET NUMBERS SHOWN SHALL HAVE WATER SERVICE LATERALS REPLACED AND CONNECTED TO PROPOSED 8 INCH CML&CMC AS REQUIRED TO MEET C.V.W.D. STANDARDS AND SPECIFICATIONS. EXACT LOCATION OF LATERAL MAIN CONNECTION TO BE DETERMINED IN FIELD BY CONTRACTOR AND APPROVED BY C.V.W.D. INSPECTOR.
- ALL REQUIRED WATER SERVICES SHALL BE CONNECTED TO NEW WATER MAIN AFTER HYDROSTATIC TESTING AND DISINFECTING, AND PRIOR TO FINAL TIE-IN OF NEW WATER MAIN.
- BY APPROVING THIS PLAN, THE WATER PURVEYOR IS NEITHER GUARANTEEING NOR AGREEING THAT IT WILL SUPPLY WATER AT ANY SPECIFIC QUANTITIES OR PRESSURE AND NO SUCH OBLIGATION IS CREATED HEREBY.
- CONTRACTOR TO NOTE THAT EXACT LOCATION AND DEPTH OF EXISTING FACILITIES MAY VARY AND SHOULD BE VERIFIED BY EXPLORATORY EXCAVATION AT TIME OF CONSTRUCTION. CONTRACTOR TO NOTIFY UNDERGROUND SERVICE ALERT PH. 1-800-227-2600, AT LEAST TWO WORKING DAYS PRIOR TO DIGGING.
- TRAFFIC CONTROL DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE CONTRACTOR, AND SHALL CONFORM WITH REQUIREMENTS OF LOCAL TRAFFIC AUTHORITY.
- ALL UNLINED FITTINGS AND SPECIALS SHALL BE FIELD MORTAR LINED (MIN. 5/16" THICK).
- NO HOSE OR FIRE HYDRANT SHALL BE USED IN THE COLLECTION OF BACTERIOLOGIC SAMPLES. A RISER WITH SAMPLING TAP, OR OTHER C.V.W.D. APPROVED INSTALLATION SHALL BE REQUIRED.
- REMOVE EXISTING VALVE SLEEVE AND VALVE CAN CAP. ABANDON EXISTING VALVE IN-PLACE AND BACKFILL PER TECHNICAL PROVISION T-3 AND RESURFACE PER TECHNICAL PROVISION T-5.
- ALL OFFSET DISTANCES ARE APPROXIMATE, CONTRACTOR SHALL VERIFY LOCATION PRIOR TO CONSTRUCTION.
- REMOVE EXISTING VALVE SLEEVE, VALVE CAN CAP & EXISTING VALVE, PLATE EXIST. MAIN PER L.A. COUNTY STD. DWG. W-22 AND BACKFILL PER TECHNICAL PROVISION T-3 AND RESURFACE PER TECHNICAL PROVISION T-5.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION OF THIS PROJECT IN ACCORDANCE WITH C.V.W.D. & COUNTY OF LOS ANGELES PLANS & SPECIFICATIONS. ANY DEVIATION FROM THESE PLANS & SPECIFICATIONS SHALL BE AUTHORIZED PRIOR TO CONSTRUCTION BY C.V.W.D. PROJECT ENGINEER. FAILURE TO OBTAIN PRIOR APPROVAL MAY RESULT IN ADDITIONAL COSTS TO THE CONTRACTOR (SEE CONTRACT SPECIFICATIONS, GENERAL PROVISIONS ARTICLE 3 & 4).

SYMBOLS & ABBREVIATIONS

C.V.W.D.	-	CRESCENTA VALLEY WATER DISTRICT	TS	-	TRAFFIC SIGNAL		-	EXISTING TREE
S.C. GAS	-	SOUTHERN CALIFORNIA GAS COMPANY	F.E.	-	FLANGED END		-	EXISTING LANDSCAPE GRASS
C. OF G.	-	CITY OF GLENDALE	G.V.	-	GATE VALVE		-	EXISTING LANDSCAPE SHRUBS
L.A. CO.	-	LOS ANGELES COUNTY	R.S.	-	RESILIENT SEAT		-	EXISTING LANDSCAPE ROCK OR GRAVEL
L.A.C.D.P.W.	-	LOS ANGELES COUNTY DEPT. OF PUBLIC WORKS	F.E.B.V.	-	FLANGED END BUTTERFLY VALVE		-	EXISTING BRICK
PAC BELL	-	PACIFIC BELL	CONC.	-	CONCRETE		-	EXISTING CONCRETE
AT&T	-	AT&T CORPORATION	A.C. PV/MT.	-	ASPHALT CONCRETE PAVEMENT		-	EXISTING BLACKTOP DRIVEWAY
EDISON	-	SOUTHERN CALIFORNIA EDISON COMPANY	P.C.C.	-	PORTLAND CEMENT CONCRETE		-	EXISTING CONCRETE BLOCK WALL
C.A.T.V.	-	CHARTER COMMUNICATIONS CABLE	EXIST.	-	EXISTING			
L.C.I.D.	-	LA CANADA IRRIGATION DISTRICT	STD.	-	STANDARD			
F.M.W.D.	-	FOOTHILL MUNICIPAL WATER DISTRICT	STD. DWG.	-	STANDARD DRAWING			
APWA	-	AMERICAN PUBLIC WORKS ASSOCIATION		-	EXISTING WATER METER BOX			
AWWA	-	AMERICAN WATER WORKS ASSOCIATION		-	PROPOSED BLOW-OFF			
C.L.	-	CENTER LINE		-	PROPOSED AIR RELEASE ASSEMBLY			
P.L.	-	PROPERTY LINE		-	STEEL METER BOX TRAFFIC LID			
N/C.L.	-	NORTH OF CENTER LINE		-	PROPOSED 6" X 4" X 2-1/2" FIRE HYDRANT			
S/C.L.	-	SOUTH OF CENTER LINE		-	PROPOSED GATE VALVE			
CL&W	-	CEMENT MORTAR LINED & WRAPPED STEEL PIPE		-	EXISTING GATE VALVE			
CML&CMC	-	CEMENT MORTAR LINED & CEMENT MORTAR COATED		-	ELECTRICAL BOX			
C.I. OR C.I.P.	-	CAST IRON PIPE		-	STREET LIGHT			
O.D.	-	OUTSIDE DIAMETER		-	TRAFFIC SIGNAL			
I.D.	-	INSIDE DIAMETER		-	PROPOSED POT HOLE			
R.C.P.	-	REINFORCED CONCRETE PIPE		-	PROPOSED BLOW-OFF			
S.S.	-	STANDARD STEEL PIPE		-	POWER POLE, PWR. POLE, P.P.			
M.H.	-	MANHOLE						
F.H.	-	FIRE HYDRANT						
W.M.	-	WATER METER						



* POT HOLE PRIOR TO CONSTRUCTION FOR DEPTH, LOCATION & CONDITION OF UNDERGROUND FACILITIES

** INSTALLATION OF 8" CML&CMC WILL REQUIRE EACH JOINT TO BE FULLY WELDED PER L.A.C.D.P.W. STANDARD PLANS DWG. W-50 FOR ZONE "B" WATER MAIN CONSTRUCTION REQUIREMENTS.

DISCLAIMER

APPROVAL BY C.V.W.D. DOES NOT CONSTITUTE A REPRESENTATION AS TO THE ACCURACY OF DESIGN OR THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES, STRUCTURES, AND CONDITIONS WITHIN THE LIMITS OF THE PROJECT.

SCALE:

DRAWN BY: 1" = 40'

CHECKED BY: C. BARTLEMAN

APPROVED BY:

AS BUILT BY:

DATE

CRESCENTA VALLEY WATER DISTRICT

8" WATER MAIN INSTALLATION ON THELMA ST. AND NEW YORK AVE. INTERSECTION

SHT. 1 OF X SHTS.

COMPLETION DATE:

JOB NO. E-1034

LINEAR FT:

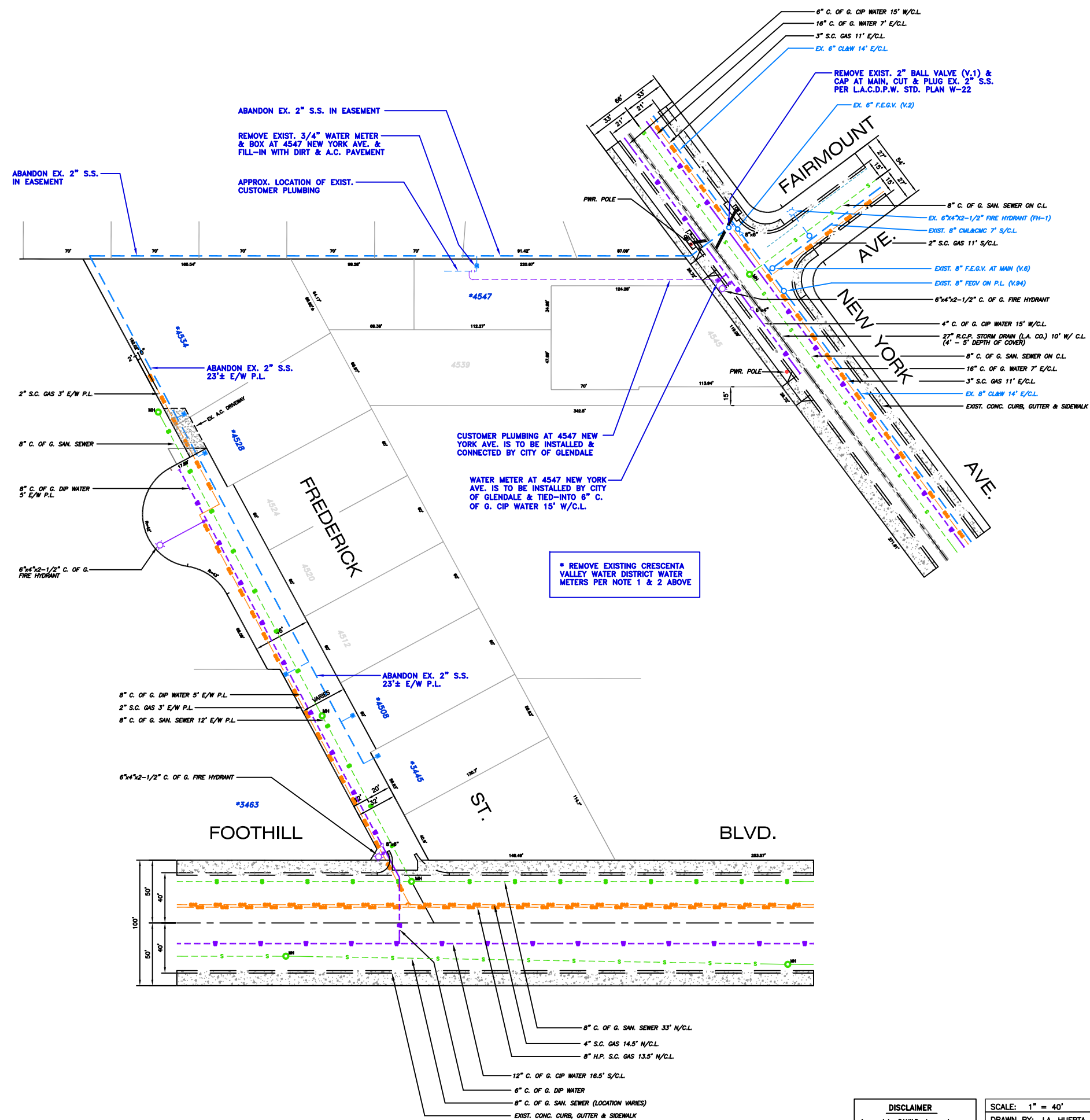
DWG NO. C-XXX

1-800-422-4133

UNDERGROUND SERVICE ALERT

PLAY IT SAFE. DIAL BEFORE YOU DIG!

AT LEAST TWO WORKING DAYS PRIOR TO EXCAVATING

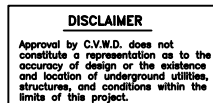


1. SERVICES AT 4508, 4528, 4534 FREDERICK ST.,
3445 & 3463 FORTHBLVD. WILL BE TRANSFERRED
TO CITY OF GLENDALE'S 8" DIP WATER MAIN 5' E/W P.L.
SERVICE AT 4547 NEW YORK AVE. WILL BE TRANSFERRED
TO CITY OF GLENDALE'S 6" CIP WATER MAIN 15' W/C/L

2. EXISTING CVDW WATER METERS & BOXES AT 4508, 4528,
4534 FREDERICK ST., 3445 & 3463 FORTHBLVD. & 4547
NEW YORK AVE. WILL BE REMOVED & KILFILLED WITH DIRT
& A.C. PAYMENT OR CONCRETE SIDEWALK TO EXIST. GRADE
PER CITY OF GLENDALE SPECIFICATIONS.

**PRELIMINARY
NOT FOR
CONSTRUCTION**

SUBJECT TO CHANGE



SCALE: 1" = 40'	DATE
DRAWN BY: J.A. HUERTA	10/24/17
CHECKED BY: B. YARED	
APPROVED: B. YARED	
AS BUILT:	

CRESCENTA VALLEY WATER DISTRICT **CWVW**
 TRANSFERRED SERVICES ON FREDERICK ST.
 TO CITY OF GLENDALE
 & ABANDONMENT OF 2" S.S. PIPE

GLENDALE PERMIT # _____	
SHT. <u>1</u> OF <u>1</u> SHTS	
COMPLETION DATE:	LINEAR FT.
JOB NO. E-991	FILE NO. C-407

CRESCENTA VALLEY WATER DISTRICT

STAFF REPORT

Information Item No. 3

January 25, 2022

To: Engineering Committee
From: David S. Gould, P.E. – Director of Engineering & Operations
Subject: Status Update - FY 21/22 Capital Improvement Project Budget

DISCUSSION:

The following is an update of the FY 21/22 Capital Improvement Project status and budget update.

1. 2800 to 3100 Blocks of Los Olivos (E-1033)

- a. Award to Brkich Construction
- b. Virtual Community Meeting – 1/27/22
- c. Start Construction – 2/7/22
- d. End Construction – July 2022
- e. Budget

Account Description	Amount
FY 21/22 Water Distribution Pipeline Replacement for E-1033	\$1,500,000
E-1033 - 2800-3100 Los Olivos Ln., - Contract Bid	(\$945,600)
E-1033 - 10% Contingency for cost of unforeseen or additional work	(\$94,560)
E-1033 - Tetra Tech - Engineering Design Services	(\$56,200)
E-1033 - Dudek - Construction Management & Inspection Services	(\$142,230)
E-1033 - Additional costs such as material purchased by CVWD, soils engineer, and CVWD labor costs	(\$265,086)
Total Cost Estimate	(\$1,503,676)
Amount Remaining	(\$3,676)

2. 3200 Block of Alabama 4700 & 4800 Blocks of Cheryl & 3300 Block of Thelma St (E-1034)

- a. Finalize design with Tetra Tech
- b. Removing Thelma St from project and transferring water services
- c. Removing 4800 Block of Cheryl since served by Glendale
- d. Advertising for Bids – 1/31/22
- e. Bid Opening – 2/16/22
- f. Award of Contract – 2/22/22
- g. Start Construction – 3/7/22
- h. End Construction – July 2022
- i. Budget

Account Description	Amount
FY 21/22 Water CIP– Water Distribution Pipeline Replacement	\$1,100,000
E-1034 Engineer's Cost Estimate for Contractor	(\$773,130)
E-1034 - 10% Contingency for cost of unforeseen or additional work	(\$77,300)
E-1034 - Tetra Tech - Engineering Design Services	(\$56,200)
E-1034 - Estimate for Construction Management & Inspection Services	(\$85,200)
Additional costs such as material purchase by CVWD, soils engineer & inspection labor costs	(\$175,000)
Total Cost Estimate for Project E-1034	(\$1,166,830)
Amount Remaining in Water CIP – Distribution System	(\$66,830)

3. FY 20/21 – Pipeline Replacement Projects – Carryover to FY 21/22

- a. E-1022 – Project completed in October 2021, finalizing change orders and project close out.

FY 20/21 Pipeline Replacement Program Cost Update: 01/18/2022	E-Job	Recorded FY 20/21	Budget FY 21/22	FY 21/22 Cost to date from 7/1/21 to 12/31/21	FY 21/22 Cost Committed from 1/1/22 to 6/30/22	Projected FY 21/22
2400 & 2500 Blocks of Janet Lee	E-1008	\$ 861,188		\$ 59,680		
4300 Block of Rosemont	E-1019	\$ 39,407		\$ 1,458		
3400 & 3500 Block of Encinal	E-1021	\$ 760,569		\$ 29,852		
4800 block of Dyer, 2800 block of El Caminito, 4800 block of Glenwood, 2800 block of Stevens & 2700 block of Paraiso Way	E-1022	\$ 175,758		\$ 610,852		
FY 20/21 Pipeline Replacement		\$1,836,922	\$400,000	\$ 701,842	\$ 35,000	\$736,842

4. New Pressure Reducing Station & Rehabilitation of the Ramsdell Mixing Station (E-977)

- a. 90% design under review by staff
b. Preliminary Construction Cost Estimate – \$1.2M
c. Staff working with Cannon on budget and construction schedule

5. Steel Reservoir Rehabilitation at Edmund #2 (E-1036)

- a. Contract awarded to J. Colon Coatings Inc.
b. Structural work started – Dec 2021
c. Possible delay – Letter from contractor on workforce shortage
d. Re-Coating work anticipated to start – Feb 2022
e. Project anticipated to be completed – April 2022

Account Description	Amount
FY 21/22 Water CIP– Water Storage	\$590,000
E-1036 - J. Colon - Contract amount	(\$623,100)
E-1036 - Harper & Associates - Engineering Design Services	(\$14,000)
E-1036 - Harper & Associates - Quality Control Inspection Services	(\$36,020)
Additional Costs such as CVWD labor costs	(\$22,880)
Total Cost Estimate for Project E-1036	(\$696,000)
Amount Remaining in Water CIP – Water Storage	(\$106,000)

6. Well 9 Rehabilitation

- a. In Design
b. Working with General Pump Company on Annual Well & Pump Rehabilitation Contract

7. Booster 26 at Cresta Heights Replacement

- a. In Design
b. Working with General Pump Company on Annual Well & Pump Rehabilitation Contract

8. Replacement of SCADA communication radio network (E-1025)

- a. Behind Schedule
b. Developing Scope of Work

9. Replacement of SCADA Equipment, Programing & Integration (E-939)

- a. Pilot Project for Wells 8 & 14 – Complete
b. Working on updating scope of work and construction costs.
c. Pilot Project expansion

10. Conversion of Disinfection System to Chloramines (E-995)

- a. Behind Schedule
b. Working on Scope of Work

11. AMI – Customer Engagement Platform (E-1035)

- a. Working with WaterSmart on transferring data
- b. Reviewing “Welcome Letter” to customers
- c. Weekly meetings

12. AMI – Installation of ¾” & 1” meters (E-1035)

- a. Completing installation of ¾” & 1” meters within Zone 1
- b. Held planning meeting for installation of about 1,000 SmartPoints in Zone 1

13. AMI – Installation of 3” & 4” meters (E-1031)

- a. Waiting on USBR to finalizing Agreement
- b. Meeting in February 2022 to start survey of 3” & 4” meters

14. FEMA Local Hazard Mitigation Plan (M-1004)

- a. Applied for Notice of Intent (NOI) with FEMA for two (2) projects
- b. Project 1 – New emergency electrical generators at 5 sites
- c. Project 2 – Seismic Evaluation of CVWD’s facilities

FY 2021/21 CIP Budget

See attached for updated CIP Budget

RECOMMENDATION:

Staff’s recommendation is to continue to provide updated information to the Engineering Committee as the FY 21/22 CIP program progress over the next 6-months.

Prepared & submitted by:



David S. Gould, P.E.
Director of Engineering & Operations

FY 21/ 22 Capital Improvement Project Program Cost Update: 01/18/2022	Recorded FY 20/21		Budget FY 21/22	<u>FY 21/22</u> Cost to date from 7/1/21 to 12/31/21	<u>FY 21/22</u> Cost Committed from 1/1/22 to 6/30/22	Projected FY 21/22
1. Water Supply	\$ 153,866		\$ 135,000	\$ 4,548	\$ 135,000	\$ 139,548
2. Water Storage	\$ 663,213		\$ 616,900	\$ 48,744	\$ 675,773	\$ 724,516
3A. Water Distribution - Pipeline - Pyramid - 20 yrs	\$ 1,838,368		\$ 3,000,000	\$ 886,112	\$ 2,513,235	\$ 3,399,348
3B. Water Distribution - Other	\$ 139,017		\$ 781,000	\$ 48,131	\$ 732,869	\$ 781,000
4. Water Treatment	\$ 54,073		\$ 75,000	\$ -	\$ 75,000	\$ 75,000
5. Technology	\$ 466,671		\$ 1,019,000	\$ 110,229	\$ 911,771	\$ 1,022,000
6. Public Safety/Emergency Response	\$ 134,549		\$ 30,450	\$ 24,015	\$ 6,435	\$ 30,450
7. Facilities & Planning	\$ 3,956		\$ -	\$ -	\$ -	\$ -
Capital Improvement Projects - Total	\$ 3,453,712		\$ 5,657,350	\$ 1,121,779	\$ 5,050,083	\$ 6,171,862
Bond Financing - CIP	\$ 2,695,174		\$ 2,304,826			\$ 2,304,826
Water Distribution - Pipeline Total			\$ 3,000,000			\$ 3,399,348
Remaining CIP			\$ 2,657,350			\$ 2,772,514
Water Fund Financing - CIP	\$ 758,538		\$ 3,352,524			\$ 3,867,036
Total Financing - CIP	\$ 3,453,712		\$ 5,657,350			\$ 6,171,862

FY 21/ 22 Capital Improvement Project Program Cost Update: 01/18/2022		Recorded FY 20/21		Budget FY 21/22	<u>FY 21/22</u> Cost to date from 7/1/21 to 12/31/21	<u>FY 21/22</u> Cost Committed from 1/1/22 to 6/30/22	Projected FY 21/22
1. Water Supply							
A. Groundwater Water Supply							
i. Well Rehabilitation							
	<i>Well 11 Rehabilitation</i>	\$	56,106				
	<i>Well 12 Rehabilitation</i>	\$	94,042				
	<i>Well 9 Rehabilitation</i>						
iii. Groundwater Basin Recharge							
	<i>Stormwater Recharge Project at CVC Park - Planning</i>	\$	3,718				
WS Total		\$	153,866				
2. Water Storage							
A. Reservoir Rehabilitation							
i. Steel Reservoir Rehabilitation							
	<i>Markridge</i>	\$	367				
	<i>Rosemont</i>	\$	607,665				
	<i>Oak Creek - 16" Manifold Repair</i>	\$	55,181				
	<i>Edmund #2</i>						
WS Total		\$	663,213				
3. Water Distribution							
A. Pipeline Replacement							
	<i>FY 20/21 Pipeline Replacement</i>	\$	1,836,922				
	<i>2800 - 3100 Blocks of Los Olivos</i>	\$	774				
	<i>4700 Block of Cheryl</i>	\$	671				
	<i>FY 21/22 Pipeline Replacement</i>	\$	1,445				
i. Annual Pump /Motor Replacement							
	<i>Boosters - Glenwood 32 & 33</i>	\$	85,951				
	<i>Booster - Paschall Booster B</i>	\$	20,385				
	<i>Booster - Booster 26 at Cresta Heights</i>						
D. Pressure Reducing Stations							
	<i>PRS - Zone 2 to Zone 1</i>	\$	32,680				
	<i>PRS - Upgrade Zone 4 to Zone 3</i>						
	<i>New PRS - Zone 7 to Zone 5</i>						
E. Miscellaneous Projects							
iii. Misc.							
	<i>Upgrade - Ramsdell Mixing Station</i>	\$	-				
WD Total		\$	1,977,384				

FY 21/ 22 Capital Improvement Project Program Cost Update: 01/18/2022		Recorded FY 20/21		Budget FY 21/22	<u>FY 21/22</u> Cost to date from 7/1/21 to 12/31/21	<u>FY 21/22</u> Cost Committed from 1/1/22 to 6/30/22	Projected FY 21/22
4. Water Treatment							
C. Disinfection - Convert to Chloramines							
	<i>Conversion to Chloramination</i>	\$	54,073	\$	75,000	\$	75,000
WT Total		\$	54,073	\$	75,000	\$	75,000
5. Technology							
A. Automated Meter Information (AMI) System							
	<i>AMI - Communication</i>	\$	215,080				
	<i>3" & 4" Smart Meters</i>	\$	1,004	\$	200,000	\$	200,000
	<i>AMI - 3/4" to 1" - Smart Meters</i>	\$	71,693	\$	233,000	\$	233,000
	<i>AMI - Customer Service Interface</i>			\$	87,000	\$	87,000
	<i>AMI - USBR Grant</i>			\$	-	\$	3,000
B. Supervisory Control and Data Acquisition (SCADA) System							
	<i>Communication Radio Network</i>	\$	72,917	\$	125,000	\$	125,000
	<i>SCADA Replacement - Installation</i>	\$	105,977	\$	374,000	\$	374,000
TECH Total		\$	466,671	\$	1,019,000	\$	1,022,000
6. Public Safety/Emergency Response							
D. Miscellaneous							
	<i>FEMA Local Hazard Mitigation Plan</i>	\$	134,549	\$	30,450	\$	30,450
SF/ER Total		\$	134,549	\$	30,450	\$	30,450
7. Facilities & Planning							
D. Reservoir Site Improvements							
	<i>Roof for Old Encinal - Storage Bldg</i>	\$	3,956				
F & P Total		\$	3,956	\$	-	\$	-
Capital Improvement Projects - Total		\$	3,453,712	\$	5,657,350	\$	6,171,862