SANTA CLARITA VALLEY WATER AGENCY **NOTICE TO PLANHOLDERS**

ADDENDUM NO. 1

Owner:	Santa Clarita Valley Water Agency 26521 Summit Circle Santa Clarita, California 91350
Project:	T7, U4, U6 Wells PFAS Treatment, Saugus 1 and Saugus 2 Wells VOC Treatment and New Disinfection Facility Project
To:	All Planholders
From:	Santa Clarita Valley Water Agency
Bid Date:	March 8, 2024, at 5:00 PM
Wells PFAS Treatme Facility Project, dated Addendum No. 1 sha herein shall take pred	en to prospective bidders that the Contract Documents for the T7, U4, U6 ent, Saugus 1 and Saugus 2 Wells VOC Treatment and New Disinfection December 18, 2023, have been modified as hereinafter set forth. This all form a part of the Contract Documents and the modifications indicated bedence over the original Contract Documents and previous Addenda, as provisions shall remain the same.
Bidder shall acknowled shall be attached to the	edge receipt of this Addendum No. 1 in the space below. This page AD 1-1 ne Bid.
Orlando Moreno , Santa Clarita Valle	P.E., Principal Engineer ey Water Agency
Date:	
ACKNOWLEDGEME	NT TO BE ATTACHED TO SEALED BID.
I have received Adde	ndum No. 1 (pages AD 1-1 through AD 1-3).
Contractor:	
Signature:	
Printed Name:	
Title:	<u></u>
Date:	

GENERAL: The following changes, additions, or deletions shall be made to the following documents as noted and shall take precedence over the original Contract Documents and previous Addenda, as applicable. All other provisions remain the same.

ADDENDUM 1, ITEM 1.

CONTRACT DOCUMENTS, COVER SHEET

DELETE the following:

COVER SHEET, dated December 2023, in its entirety

And REPLACE with:

the attached COVER SHEET, Dated December 18, 2023

ADDENDUM 1, ITEM 2.

CONTRACT DCONTRACT DOCUMENTS, NOTICE INVITING BIDS

DELETE the following:

NOTICE INVITING BIDS, in its entirety

And REPLACE with:

the attached NOTICE INVITING BIDS, Addendum No. 1

ADDENDUM 1, ITEM 3.

CONTRACT DCONTRACT DOCUMENTS, INSTRUCTIONS TO BIDDERS

DELETE the following:

INSTRUCTION TO BIDDERS, in its entirety

And REPLACE with:

the attached INSTRUCTION TO BIDDERS, Addendum No. 1

ADDENDUM 1, ITEM 4.

CONTRACT DCONTRACT DOCUMENTS, BID FORM

DELETE the following:

BID FORM, in its entirety

And REPLACE with:

the attached BID FORM, Addendum No. 1

SANTA CLARITA VALLEY WATER AGENCY

26521 SUMMIT CIRCLE SANTA CLARITA, CALIFORNIA 91350-2173 (661) 297-1600



CONTRACT DOCUMENTS

for

T7, U4, U6 WELLS PFAS TREATMENT, SAUGUS 1 AND 2 WELLS VOC TREATMENT AND NEW DISINFECTION FACILITY

Project No. 2400420

December 18, 2023

NOTICE INVITING BIDS-ADDENDUM NO.1

Notice is hereby given that the Santa Clarita Valley Water Agency ("AGENCY") will receive electronic bids via PlanetBids only for the **T7**, **U4**, **U6 WELLS PFAS TREATMENT, SAUGUS 1 AND 2 WELLS VOC TREATMENT AND NEW DISINFECTION FACILITY** Project, no later than 5:00 pm Pacific Time, on March 8, 2024. The electronic bid management system will not accept late bids.

Bids will be received for performing the work as follows: Construction of the T7, U4, U6 WELLS PFAS TREATMENT, SAUGUS 1 AND 2 WELLS VOC TREATMENT AND NEW DISINFECTION FACILITY. The project is located at 25401 Bouquet Canyon RD, Santa Clarita, CA 91350 Rio Vista Intake Pump Station and Wells T7 and U6. Please refer to the T7, U4, U6 WELLS PFAS TREATMENT, SAUGUS 1 AND 2 WELLS VOC TREATMENT AND NEW DISINFECTION FACILITY drawings for location map. The project generally consists of site construction, building construction, pipeline installation, and equipment installation for groundwater treatment systems. The work includes, but is not limited to mobilization, demolition, and site excavation; well pump, discharge pipeline, and electrical modifications; replacement of a suspended flexible expansion joint and waterline piping on the Bouquet Canyon Road Bridge; water and drain pipelines installation; equipment installation for an ion exchange system and GAC system (pressure vessels, pipes, cartridge filters, etc.); chemical storage/feed system installation; building construction; retaining wall construction; electrical work; system start-up including owner furnished ion exchange resin, coordination and system flushing; and all associated work ("Work") as indicated in the Contract Documents.

The AGENCY shall award the contract for the Work to the lowest responsive and responsible bidder as determined from the Base Bid Price. The AGENCY anticipates the Base Bid Price to range between \$15,300,000 to \$15,900,000. This estimate is intended to serve merely as a guideline of the magnitude of work. Neither the Bidders nor the Contractor shall be entitled to claims because of any inaccuracy in the estimated construction cost range.

Bidders must register as a vendor at the following website in order to download the Contract Documents: AGENCY'S website: https://yourscvwater.com/bid-opportunities/ and click on the PlanetBids tab, then register on PlanetBids.

Bids must be submitted on the AGENCY's Bid Forms. Bidders may obtain a copy of the Contract Documents from PlanetBids at no charge. To the extent required by section 20103.7 of the Public Contract Code, upon request from a contractor plan room service, the AGENCY shall provide an electronic copy of the Contract Documents at no charge to the contractor plan room. For questions regarding accessing the Contract Documents, please contact Elaine Blanford at (661) 964-3983 or email eblanford@scvwa.org.

It is the responsibility of each prospective bidder to download and print all Contract Documents for review and to verify the completeness of Contract Documents before submitting a bid. Any Addenda will be posted on PlanetBids. It is the responsibility of each prospective bidder to check PlanetBids on a daily basis through the close of bids for any applicable addenda or updates. The AGENCY does not assume any liability or responsibility based on any defective or incomplete copying, excerpting, scanning, faxing, downloading or printing of the Contract Documents. Information on PlanetBids may change without notice to prospective bidders. The Contract Documents shall supersede any information posted or transmitted by PlanetBids. All

parties downloading Contract Documents will be listed under the solicitation's "Prospective Bidders" tab.

Discrepancies or omissions in, and/or questions about, the Contract Documents shall be submitted to the AGENCY, in writing, via PlanetBids and shall be received by the AGENCY no later than 5:00 pm Pacific Time on February 16, 2024. It is the Bidder's responsibility to confirm that the AGENCY has received the correspondence. The AGENCY will not be responsible for any oral explanations or instructions. As determined by the AGENCY, a written addendum may be issued. Bidder is responsible for receipt of addenda, which will be posted on PlanetBids. All bids shall be accompanied by a cashier's or certified check payable to the order of the AGENCY, or by a Bid Bond in favor of the AGENCY in an amount not less than ten percent (10%) of the Base Bid Price. The Bid Guarantee must be received prior to the specified date and time for bid opening. The Bid Guarantee shall be submitted in a sealed envelope with the Bidder's name, marked with the name of the project, the date and time to be opened, and addressed and delivered or mailed, postage prepaid, to: Elaine Blanford, Santa Clarita Valley Water Agency, 26515 Summit Circle, Santa Clarita, CA 91350. It is each Bidder's responsibility to ensure that his/her Bid Guarantee is received by the AGENCY prior to the time set for bid opening.

No Bidder may withdraw its bid for a period of ninety (90) days after the date of opening the bids, within which time an award may be made. The AGENCY reserves the right to reject any or all bids, or to waive any irregularities or informalities in any bid or in the bidding. Bids are required for the entire Work, and the Work will be let under a single contract.

Each Bidder shall be a licensed contractor pursuant to sections 7000 et seq. of the Business and Professions Code in the following classification(s) throughout the duration of the Contract: Class A, General Engineering Contractor License.

Bidders should be aware that the AGENCY has established the following responsiveness criteria and shall be required to complete the related bid form demonstrating that they can meet the following criteria: The Contractor shall have completed at least two (2) similar projects between January 1, 2016 and December 1, 2023. The Contractor's Superintendent shall have satisfactorily completed at least one (1) similar project between January 1, 2016 and December 1, 2023.

Pursuant to Public Contract Code Section 3400 (c), the AGENCY has made findings designating certain materials, products, things, or services by specific brand or trade, that shall be provided by the Contractor under the Contract, and such findings and the materials, products, things, or services and their specific brand or trade names are set forth in the Special Conditions, SC-13 "Designated Materials, Products, Things or Services".

The project may be funded in whole or in part by the Water Infrastructure Financing and Innovations Act ("WIFIA") program and other funding programs from the United States Environmental Protection Agency ("EPA")The successful bidder will be required to comply with all terms and conditions imposed by WIFIA, including but not limited to the following: Build America, Buy America Act, American Iron and Steel, Disadvantaged Business Enterprises, and Davis-Bacon. Bidder shall refer to the Special Conditions for the requirements of WIFIA.

Failure to comply with terms and conditions imposed by the funding source may result in the bid being deemed non-responsive.

This Project will be funded in whole or in part with Proposition 1, Round 2 Integrated Regional Water Management (IRWM) program funding from the State of California Natural Resources Agency, Department of Water Resources. The successful bidder will be required to comply with all terms and conditions imposed by the sources of funding. Bidder shall refer to the Contract Documents and special conditions for the requirements of the funding source. Failure to comply with terms and conditions imposed by the funding source may result in the bid being deemed non-responsive. The Project will be funded in whole or in part with the United States Environmental Protection Agency (EPA) Emerging Contaminants (EC) Grant Program and the Drinking Water State Revolving Fund (DWSRF) Grant Program to be administered by the State Water Resources Control Board (SWRCB). The successful bidder will be required to comply with all terms and conditions imposed by the sources of funding. Bidder shall refer to the Contract Documents and special conditions for the requirements of the funding source. Failure to comply with terms and conditions imposed by the funding source may result in the bid being deemed non-responsive.

Pursuant to the Section 1770, et seq. of California Labor Code, the Contractor and all subcontractors shall pay not less than the prevailing rate of per diem wages as determined by the Director of the California Department of Industrial Relations and comply with all applicable Labor Code provisions, which include, but are not limited to the employment of apprentices, the hours of labor and the debarment of contractors and subcontractors. The schedule of said rates is hereby incorporated and made a part thereof the same as though fully set forth herein. The wage determinations made by the Director of Industrial Relations are posted at www.dir.ca.gov/dlsr. The Contractor shall post a copy of said document at the job site. The Contractor and any subcontractor under them shall pay not less than the therein-specified prevailing rate of per diem wages to all workers employed in the execution of the Contract.

Pursuant to Labor Code sections 1725.5 and 1771.1, all contractors and subcontractors that wish to bid on, be listed in a bid proposal, or enter into a contract to perform public work must be registered with the Department of Industrial Relations. No bid will be accepted nor any contract entered into without proof of the contractor's and subcontractors' current registration with the Department of Industrial Relations to perform public work. If awarded a Contract, the Bidder and its subcontractors, of any tier, shall maintain active registration with the Department of Industrial Relations for the duration of the project.

In accordance with the WIFIA federal requirements, the work must also comply with the minimum rates for wages for laborers and mechanics as determined by the Secretary of Labor in accordance with the provisions of Davis-Bacon. The federal minimum wage rates for this Project are predetermined by the United States Secretary of Labor. These rates are available directly from the Department of Labor at http://www.wdol.gov. The Davis-Bacon Wage Listings are attached. If there is a difference between the minimum wage rates predetermined by the Secretary of Labor and the general prevailing wage rates determined by the Director of the California Department of Industrial Relations for similar classifications of labor, the contractor and its subcontractors shall pay not less than the higher wage rate.

The project is subject to compliance monitoring and enforcement by the Department of Industrial Relations. In bidding on this project, it shall be the Bidder's sole responsibility to evaluate and include the cost of complying with all labor compliance requirements under this Contract and applicable law in its bid.

The successful Bidder will be required to furnish the AGENCY with Payment and Performance Bonds equal to 100% of the Contract Price.

Pursuant to the Public Contract Code Section 22300, the successful bidder may substitute securities for funds withheld by AGENCY to ensure the Bidder's performance under the Contract.

There will be a mandatory online pre-bid conference for Bidders to attend on January 17, 2023, 9:00 am, Pacific Time. A second online pre-bid conference will be offered to potential bidders on February 12, 2024, 10:00 am. Bidders are required to attend only one of the two meetings. The online meeting web link is on PlanetBids. The project will be discussed, and there will be a virtual tour of the project site as part of the meeting. Prospective Bidders shall attend the mandatory pre-bid conference, and attendance is a condition precedent to submit a bid. Attendance at the pre-bid conference by subcontractor is not required.

The project site will be available for bidders, subcontractors, etc. to visit on January 18, 2024, between 1:00 pm and 3:00 pm, Pacific Time and February 12, 2024, between 1:00 pm and 3:00 pm. There will be no guided tour at the site. Site visitors are required to bring and wear proper construction safety personal protection equipment (i.e. hard hat, safety shoes, etc.) and checkin with the Agency's Project Manager and stay within the areas designated. Also, due to Covid-19, it is required that visitors bring and wear a mask and maintain social distancing at the site.

Any person, unless already bound by a current contract with the AGENCY, prior to entering AGENCY property, including the project site must complete, sign and submit AGENCY's Release of Liability Form. AGENCY's Release of Liability Form is included in Appendix of the Contract Documents. The AGENCY will not allow any visitor/prospective Bidder access to AGENCY property without the Release of Liability Form being fully executed and submitted.

Dated: _______Docusigned by:

Mattur G. Storu

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Matthew G. Stone, General Manager Santa Clarita Valley Water Agency

INSTRUCTIONS TO BIDDERS-ADDENDUM NO.1

IB-01 WORK TO BE DONE

Refer to the Notice Inviting Bids and the Technical Specifications.

IB-02 SECURING DOCUMENTS

Refer to the Notice Inviting Bids.

IB-03 DOCUMENT CHARGE

Refer to the Notice Inviting Bids.

IB-04 COMMENCEMENT AND PROGRESS OF THE WORK TO COMPLETION

The successful Bidder, properly bonded and insured, after receiving notice that the Contract has been executed on behalf of the AGENCY, will become the CONTRACTOR and shall commence work within fifteen (15) days after the date established by the AGENCY in its Notice(s) to Proceed and shall diligently prosecute all portions of the Work to completion as defined in the Contract Documents. The facilities and associated Work shall be completed, tested and ready for service by the completion date defined in the Contract Documents.

In the event that all of the Work items are not completed within the specified projection duration, the AGENCY reserves the right to enforce the provisions for liquidated damages contained in the Contract. Provisions for liquidated damages are defined in the General Conditions and Special Conditions.

Pursuant to Public Contract Code section 7102, in the event that the AGENCY causes an unreasonable delay, the Bidder's recovery for such delay shall be limited to an amount of reverse liquidated damages contained in the Contract. Provisions for reverse liquidated damages are defined in the General Conditions and Special Conditions. By submitting its Bid, the Bidder certifies that it has reviewed the amount of reverse liquidated damages and determined that, based on its Bid, the amount represents a fair and reasonable estimate of the amount of daily damages that Bidder would incur as a result of an unreasonable delay.

IB-05 SUBMITTING BID

Bidders must submit their bids via electronic transmission pursuant to Public Contract Code Sections 1600 and 1601. The acceptable method(s) of electronic transmission is via PlanetBids. AGENCY shall not accept bids otherwise transmitted. No oral, telephonic, or facsimile bids will be considered.

It is the sole responsibility of each bidder to see that its Bid is properly submitted to PlanetBids in the proper form and prior to the stated closing time. THE ELECTRONIC BID MANAGEMENT SYSTEM WILL NOT ACCEPT LATE BIDS. The AGENCY will only consider bids that have transmitted successfully and have been issued a confirmation number with a time stamp from PlanetBids indicating that the Bid was submitted successfully.

Bidders experiencing any technical difficulties with the bid submission process may contact the PlanetBids system support at 818-992-1771. If you continue to have difficulty, call the AGENCY's Engineering Department at 661-259-2737. Neither the AGENCY, nor the AGENCY's bid management system, make any guarantee as to the timely availability of assistance, or assurance that any given problem will be resolved by the bid submission date and/or time. The AGENCY will have no responsibility for bids that do not arrive in a timely manner, no matter what the reason.

THE BID GUARANTEE MUST BE RECEIVED PRIOR TO THE SPECIFIED DATE AND TIME FOR BID OPENING.

The Bid Guarantee shall be submitted in a sealed envelope with the Bidder's name, marked with the name of the project, the date and time to be opened, and addressed and delivered or mailed, postage prepaid, to:

Elaine Blanford Santa Clarita Valley Water Agency 26515 Summit Circle Santa Clarita, CA 91350

It is each Bidder's responsibility to ensure that his/her Bid Guarantee is received by the AGENCY prior to the time set for bid opening.

Alternatively, Bid Bonds may be signed by digital signature (public key cryptography) and submitted electronically with their Bid. A digital signature shall be in accordance with Government Code section 16.5 and have the following attributes: (1) It is unique to the person using it; (2) It is capable of verification; (3) It is under the sole control of the person using it; (4) It is linked to data in such a manner that if the data are changed, the digital signature is invalidated; and (5) It conforms to the regulations adopted by the Secretary of State including, but not limited to, the acceptable technology requirements set forth under Title 2, Division 7, Chapter 10, Section 22003 of the California Code of Regulations. The Certification Authority issuing the certification for the digital signature transaction must appear on the "Approved List of Certification Authorities" authorized by the California Secretary of State. The current Approved List of Certification Authorities can be found at the following address:

https://www.sos.ca.gov/administration/regulations/current-regulations/technology/digital-signatures/approved-certification-authorities/. By submitting a Bid Bond with digital signatures, both the Bidder and surety consent and agree to the use of electronic signatures with the District when providing a Bid Bond. If the Bid Bond is submitted electronically with digital signatures, the Bidder and surety agree that the Bid Bond is authorized and enforceable despite being submitted and signed electronically and both waive any challenge to the form and/or validity of the Bid Bond.

IB-06 FORM AND CONTENT OF BID

Bids shall only be prepared using copies of the Bid Forms which are included in the Contract Documents and available on the electronic bid management system. The use of substitute bid forms will not be permitted. Bids shall be executed by an authorized signatory as described in these Instructions to Bidders. Deviations in the bid form may result in the bid being deemed non-responsive.

Bids shall be filed as noted above and shall include the following completed documents:

Bid Form

Non-Collusion Declaration

Designation of Equipment or Material Manufacturers

Designation of Subcontractors

Subcontractors Designation Form

Subcontractors Workers Classifications Form

Information Required of Bidders

Iran Contracting Act Certification

Executive Order N-6-22 Certification

Public Works Contractor Registration Certification

Bidder Workers Classifications Form

Bid Bond or other security

Certificate for Workers' Compensation Insurance

Acknowledgment of Addenda and Clarifications, if any

American Iron and Steel Certification

Build America, Buy America Certification

Notice of Requirement for Affirmative Action to Ensure Equal Employment

Opportunity

Anti-Lobbying Certification

DBE Good Faith Efforts Verification

DBE Subcontractor Performance Form

DBE Subcontractor Utilization Form

Debarment and Suspension Certification

To receive consideration, Bids shall be made in accordance with the following instructions:

A. Bids shall be made upon the form provided in the Contract Documents, with all items filled out, the signatures of all persons required to sign, acknowledged addenda on which bid is based, and shall be in writing. If Mobilization is included as Bid Item, the Mobilization Price shall not exceed five percent (5%) of the Total Bid Price.

The Bidder must enter pricing in the electronic bid form for any and all line items or a lump sum bid amount, as required. The pricing provided in the electronic bid form will be the only valid bid pricing for determination of low bid.

B. Bids shall contain only the quotations for which the form is prepared. Alternative Bids will not be considered unless called for. No oral, telegraphic, or telephonic Bids or modifications will be considered.

INSTRUCTIONS TO BIDDERS-ADDENDUM NO.1

C. Each Bidder shall submit with his/her bid, on the form provided, the name and address of each subcontractor performing over one-half of one percent (0.5%) of the total value of the project, and the portion of the Work which each subcontractor will do, together with the listing of equipment suppliers. If the Bidder fails to name the subcontractors in his/her Bid, he/she shall be deemed to have agreed to perform such portion of the Work himself/herself and shall not be permitted to subcontract said portion of the Work without previous written permission of the AGENCY. If the Bidder fails to designate a manufacturer of the equipment as called for, it will be considered that the Bidder has selected the first named manufacturer listed in the specified equipment section.

Any Subcontractor, Supplier, or other individual or entity so listed and against which the AGENCY makes no written objection prior to the giving of the Notice of Award will be deemed acceptable to the AGENCY, subject to revocation of such acceptance after the Effective Date of the Agreement as provided in the General Conditions.

The bidder must enter subcontractor information in the electronic bid form.

- D. Bids shall be accompanied by a Bid guarantee instrument in the form of (1) an unconditional cashier's check or check certified by a responsible bank of an amount not less than ten percent (10%) of the aggregate of the Bid, payable to the order of the Santa Clarita Valley Water Agency, or by (2) a Bid bond for the said amount which shall be on the mandatory form included in the Bid Documents and so payable written by a surety company acceptable to the AGENCY and which is admitted to transact surety business in the State of California, as defined in Code of Civil Procedure Section 995.120. Personal sureties and unregistered surety companies are unacceptable. Said check or bond shall be a guarantee that the Bidder, if awarded the Work, will: (1) execute and deliver to the AGENCY the Contract-Agreement in these specifications within fifteen (15) days after award, and (2) furnish bonds on the specification-required mandatory forms for both performance and payment within fifteen (15) days after award, and (3) furnish specification-required insurance, including documentation thereof, within fifteen (15) days after award. In case of refusal or failure to timely enter into said Contract, timely furnish the required bonds, or timely furnish the required insurance documents, the Bid guarantee amount shall, in full, be the property of the AGENCY. Said amount is hereby agreed upon as liquidated damages to the said AGENCY. Upon the AGENCY's execution of the Contract and the receipt on behalf of the AGENCY of the accompanying bonds and insurance documents, including the policy endorsements referenced in paragraph GC-10 of the General Conditions, all Bids guarantees will be returned to each Bidder. Award of the Contract, if award be made, will be made within ninety (90) days after the opening of the bids.
- E. Each Bidder shall be licensed in accordance with the provisions of Chapter 9, Division 3, of the Business and Professions Code, State of California, and shall be skilled and regularly engaged in the general class or type of work called for under this Contract.

It is the intention of the AGENCY to award the Contract only to a Bidder who is able to furnish satisfactory evidence that they have the requisite experience and ability and that they have sufficient capital, facilities, and plant to enable them to prosecute

the Work successfully and promptly, and to complete it within the time set forth in the Contract.

In determining the degree of responsibility to be credited to a Bidder, the AGENCY will weigh any evidence indicating the Bidder, or personnel guaranteed to be employed in responsible charge of the Work, has satisfactorily performed other contracts of like nature and magnitude.

F. All Bids submitted shall be executed by the Bidder or its authorized representative. Bidders may be asked to provide evidence in the form of an authenticated resolution of its Board of Directors or a Power of Attorney evidencing the capacity of the person signing the Bid to bind the Bidder to each Bid and to any Contract. If a Bidder is a joint venture or partnership, it may be asked to submit an authenticated Power of Attorney executed by each joint venturer or partner appointing and designating one of the joint venturers or partners as a management sponsor to execute the Bid on behalf of Bidder. Only that joint venturer or partner shall execute the Bid. The Power of Attorney shall also: (1) authorize that particular joint venturer or partner to act for and bind Bidder in all matters relating to the Bid; and (2) provide that each venturer or partner shall be jointly and severally liable for any and all of the duties and obligations of Bidder assumed under the Bid and under any Contract arising therefrom. The Bid shall be executed by the designated joint venturer or partner on behalf of the joint venture or partnership in its legal name.

IB-07 EXAMINATION OF SITE, DRAWINGS, ETC.

Each Bidder shall visit the site of the proposed Work and fully acquaint himself/herself with local conditions, construction and labor so that the Bidder may fully understand the facilities, difficulties, and restrictions relating to the execution of the Work under the Contract.

Bidders shall thoroughly examine and be familiar with the Contract Documents. The failure of any Bidder to receive or examine any form, instrument, addendum, or other document, or to visit the site and acquaint himself/herself with conditions there existing shall in no way relieve the Bidder from any obligation with respect to the Bidder's Bid or to the Contract. The Drawings for the Work show conditions as they are supposed or believed by the Engineer to exist; but it is neither intended nor to be inferred that the conditions as shown thereon constitute a representation by the Engineer, the AGENCY, or its officers, that such conditions are actually existent, nor shall the AGENCY, the Engineer, or any of their officers or representatives be liable for any loss sustained by the Contractor as a result of any inference or extrapolation drawn by the Bidder between conditions as shown on the Drawings and the actual conditions revealed during the progress of the Work, or otherwise.

The Bidder's attention is directed to the possible existence of obstructions and improvements which may be within the limits of the Work or adjacent thereto, which may or may not be shown on the Drawings.

The Bidder is responsible for fully acquainting itself with the conditions of the site, as well those relating to the construction and labor of the Work, to fully understand the facilities, difficulties and restrictions which may impact the cost or efforts required to complete the

INSTRUCTIONS TO BIDDERS-ADDENDUM NO.1

Work. The Bidder shall investigate to his/her satisfaction as to the conditions to be encountered, as to the character, quality, and quantities of work to be performed and materials to be furnished, and as to the requirements of the Contract Documents. It is mutually agreed that submission of a Bid shall be considered conclusive evidence that the Bidder has made such examination and has accepted the project site as a safe workplace to perform the Bidder's work.

The Bidder is required to complete, sign, and submit AGENCY's Release of Liability Form prior to entering on AGENCY property. The form is included on the AGENCY'S website. The AGENCY will not allow any visitor/bidder access to AGENCY property without the Release of Liability Form being fully executed and submitted.

IB-08 LOCATION OF THE WORK

Refer to the Notice Inviting Bids.

IB-09 BIDDERS INTERESTED IN MORE THAN ONE BID

No person, firm, or corporation shall be allowed to make, file, or be interested in more than one Bid for the same work, unless alternative Bids are invited. A person, firm, or corporation who has submitted a sub-proposal to a Bidder, or who has quoted prices on materials to a Bidder, is not thereby disqualified from submitting a Bid, or quoting prices to other Bidders.

Reasonable grounds for believing that any Bidder is interested in more than one Bid for the Work will cause the rejection of all Bids in which said Bidder is interested. If there is reason to believe that collusion exists among the Bidders, none of the participants in such collusion will be considered.

IB-10 INTERPRETATION OF CONTRACT DOCUMENTS/RESTRICTION

Discrepancies or omissions in, and/or questions about, the Contract Documents shall be submitted to the Agency in writing as indicated in the Notice Inviting Bids.

The Bidder, by submission of his/her bid, confirms he/she has familiarized himself/herself with the Contract Documents and has found them fit and sufficient for the purpose of preparing his/her bid.

IB-11 ADDENDA

Any addenda or clarifications supplementing the Contract Documents and issued prior to the time set for the opening of Bids, and/or forming a part of the documents furnished to the Bidder for the preparation of his/her Bid, shall be covered in the Bid and shall be a part of the Contract Documents. Addenda will be uploaded to PlanetBids. Please note that bidders are responsible for receipt of all addenda. To this end, each Bidder should visit PlanetBids to verify that it has received all Addenda issued, if any, prior to the Bid opening. Bidder shall sign and return acknowledgments form of all addenda (if any) with the submitted Bid. Failure to sign and include acknowledgment of all addenda within the Bid could render the Bid as nonresponsive and the AGENCY may act to bar award of the Contract to any bidder that did not sign and return acknowledgments of all addenda.

IB-12 ALTERNATE BIDS

If alternate bid item(s) are called for in the Contract Documents, the lowest bid will be determined on basis of the base bid only unless otherwise specified in the Notice Inviting Bids. The time required for completion of the alternative bid item(s) has been factored into the Contract Time and no additional time will be allowed for performing any of the alternative bid item(s). The AGENCY may elect to include one or more of the alternate bid items, or to otherwise remove certain Work from the scope of work. Accordingly, each Bidder must ensure that each bid item contains a proportionate share of profit, overhead and other costs or expenses which will be incurred by the Bidder.

IB-13 DESIGNATION OF SUBCONTRACTORS

Pursuant to the State law, the Bidder must designate the name, location of place of business, California contractor license number, and public works contractor registration number of each subcontractor who will perform labor or render services to the Bidder in or about the construction of work or improvement, or a subcontractor licensed by the State of California who, under subcontract to the Bidder, specially fabricates and installs a portion of the work or improvement according to detailed drawings contained in the plans and specifications, in an amount in excess of one-half of one percent ($\frac{1}{2}$ %) of the Bidder's Total Bid Price or, in case of bids or offers for construction of streets and highways, including bridges, in excess of one-half of one percent (1/2 %) of the Bidder's Total Bid Price or ten thousand dollars (\$10,000), whichever is greater. The Bidder shall provide information of the subcontractor name, location of place of business, California contractor license number, public works contractor registration number, and a portion of work each subcontractor will perform on the Designation of Subcontractors form provided within the Bid Documents. Bidders may submit any other information regarding subcontractors the contractor is required to list under this subdivision, other than the subcontractor's name, location of business, and California contractor license number, and public works contractor registration number to the AGENCY up to 24 hours after the deadline for submitting bids.

IB-14 WITHDRAWAL OF BIDS

Prior to the bid closing deadline, a Bid may be electronically withdrawn by the Bidder. Any request to withdraw a bid after bid closing must be made in accordance with Public Contract Code section 5100 et seq. and must be submitted in writing within five (5) working days, excluding Saturday, Sundays and State holidays, specifying in detail how the mistake was made.

IB-7

IB-15 OPENING AND COMPARISON OF BIDS

Bids will be received by the AGENCY via the PlanetBids electronic bid management system up to the date and time shown in the Notice Inviting Bids. It is the Bidder's sole responsibility to ensure that its Bid is received as specified. Bids may be submitted earlier than the dates(s) and time(s) indicated.

Bid results are immediately available to the public at the closing deadline on the AGENCY's website in the electronic bid management system. Bid results will also be available immediately following bid opening at the Engineering Department, Customer Service Building, 26515 Summit Circle, Santa Clarita CA 91350.

IB-16 AWARD OR REJECTION OF BIDS

If award is made, the AGENCY will award based primarily on the lowest overall cost to the AGENCY, and the award will be made to the lowest responsive, responsible Bidder who has complied with the Instructions to Bidders and with the provisions of the advertised Notice Inviting Bids. Unless otherwise indicated, a single award will not be made for less than all the bid items in an individual bidding schedule. The AGENCY reserves the right to reject any or all bids and to waive any irregularities or informalities of any bid. The competency and responsibility of Bidders as evidenced by the information accompanying the Bids, which will be subject to verification, will be considered in making the award. The AGENCY may reject any Bid which, in its opinion when compared to other bids received or to the AGENCY's internal estimates, does not accurately reflect the cost to perform the Work. The AGENCY may reject as non-responsive any bid which unevenly weights or allocates costs, including but not limited to overhead and profit, to one or more particular bid items.

Award, if award is made, will be made within ninety (90) days of the opening of sealed Bids. No Bidder may withdraw his Bid within such period, even if a Notice of Award is given to another Bidder.

Once the AGENCY notifies the Bidder of the award, the Bidder will have fifteen (15) calendar days from the date of the award to execute the Contract and supply the AGENCY with an executed contract and all of the required bonds, evidence of insurance and other materials.

As required herein the successful Bidder shall execute the Contract included with the bid documents in the amount determined in accordance with the Contract Documents. The AGENCY may require appropriate evidence that the persons executing the Contract are duly authorized to do so on the Contractor's behalf.

Immediately after making an award, the AGENCY will issue a Notice of Award and mail the notice to the Bidder to whom such award is made.

Upon the AGENCY's execution of a Contract or rejection of Bids, the AGENCY will return to Bidders the Bid guarantee instrument which accompanied their Bids.

IB-17 BID PROTESTS

Submitted bids will be timely made available for review upon written request of any bidder. Bidders may file a "protest" of Bid with the AGENCY. The protest must:

- A. Be filed in writing with the AGENCY at 26515 Summit Circle, Attention: Mr. Orlando Moreno;
- B. Be filed before 5:00 p.m. on the fifth (5th) business day following the date on the notice of intended award or the notice of intent to reject, or the date of the award, whichever occurs first.:
- C. Shall include the name, address and telephone number of the person representing the protesting party;
- D. Clearly identify the specific irregularity or other basis for the protest;
- E. Clearly identify the specific AGENCY staff determination or recommendation being protested;
- F. Specify, in detail, the legal grounds of the protest and the facts supporting the protest;
- G. Include all relevant, supporting documentation with the protest at time of filling.

It the protest does not meet all of these requirements, the AGENCY may reject it without further review.

If the protest is timely and complies with all of the above requirements, the AGENCY will review and will issue a decision on the protest.

The procedure and time limits set forth herein are mandatory and are the Bidder's sole and exclusive remedy in the event of Bid protest. Failure to comply with these procedures shall constitute a waiver of any right to further pursue the bid protest, including filing a Government Code Claim or legal proceedings.

IB-18 MANDATORY PRE-BID CONFERENCE

A mandatory pre-bid conference will be held for the project at the time and place noted in the Notice Inviting Bids. The project will be discussed, and there will be a virtual tour of the project site. The plans and specifications will not be available for purchase at the pre-bid conference. Prospective bidders must attend the mandatory pre-bid conference, and attendance is a condition precedent to submittal of a bid. The AGENCY will not consider a bid from any Bidder not represented at the mandatory pre-bid conference as indicated in the sign in sheet maintained by AGENCY. Attendance at the pre-bid conference by subcontractors is not required.

The site will also be available for bidders to visit at the time and place noted in the Notice Inviting Bids. Bidders are advised to wear appropriate protective footwear

INSTRUCTIONS TO BIDDERS-ADDENDUM NO.1

during the tour of the project site. Protective footwear shall safeguard from sharp objects, rolling objects, wet or slippery surfaces, or electrical hazards.

Any person, unless already bound by a current contract with the AGENCY, prior to entering AGENCY property, must complete, sign and submit AGENCY's Release of Liability Form. AGENCY's Release of Liability Form is included on the AGENCY'S website. The AGENCY will not allow any visitor/prospective bidder access to Agency property without the Release of Liability Form being fully executed and submitted.

IB-19 DEBARMENT OF CONTRACTORS AND SUBCONTRACTORS

In accordance with the provisions of the Labor Code, contractors and subcontractors may not perform work on a public works project with a subcontractor who is ineligible to perform work on a public works project pursuant to Section 1777.1 or Section 1777.7 of the Labor Code. Any contract on a public works project entered into between a contractor and a debarred subcontractor is void as a matter of law. A debarred subcontractor may not receive any public money for performing work as a subcontractor on a public works contract. Any public money that is paid to a debarred subcontractor by the Contractor shall be returned to the AGENCY. The Contractor shall be responsible for the payment of wages to workers of a debarred subcontractor used on the Work.

IB-20 IRAN CONTRACTING ACT CERTIFICATION

Each Bidder shall submit the certification required by the Iran Contracting Act of 2010, Public Contract Code Section 2200 *et seq.* with the Bid. The certification form is included in the Bid Documents.

IB-21 PREVAILING WAGES

The AGENCY has obtained from the Director of the Department of Industrial Relations the general prevailing rate of per diem wages in the locality in which this work is to be performed for each craft or type of worker needed to execute the Contract. These rates are on file and available at the AGENCY or may be obtained online at http://www.dir.ca.gov/dlsr. Bidders are advised that a copy of these rates must be posted by the successful Bidder at the job site(s).

Pursuant to Labor Code sections 1725.5 and 1771.1, all contractors and subcontractors that wish to bid on, be listed in a bid proposal, or enter into a contract to perform public work must be registered with the Department of Industrial Relations. No bid will be accepted, nor any contract entered into without proof of the Bidder's and its subcontractors' current registration with the Department of Industrial Relations. Bidder shall sign and submit with its Bid the Public Works Contractor Registration Certification, attesting to the facts contained therein. Failure to submit this Certification with the Bid may render the Bid non-responsive. Each Bidder shall provide the registration number for each listed subcontractor in the space provided in the Designation of Subcontractors Form. In addition, each Bidder shall provide the workers classifications for the Bidder and for each listed subcontractor on the provided Bidder Worker Classifications Form and Subcontractor Classifications Form.

In accordance with Labor Code section 1773.3, the AGENCY will provide notice of the award to the Department of Industrial Relations on the Form PWC-100. The Bidder who is awarded the Contract shall submit to the AGENCY any information requested by the AGENCY to complete the form, including but not limited to identification of the worker classifications for the Bidder and all listed subcontractors. Failure or refusal to provide the requested information prior to execution of the Contract may result in forfeiture of the Bidder's Bid deposit or bond to the AGENCY, and the AGENCY may award the Contract to the next lowest responsive and responsible Bidder, or may call for new Bids.

In accordance with the Water Infrastructure Financing and Innovations Act ("WIFIA"), the work must also comply with the minimum rates for wages for laborers and mechanics as determined by the Secretary of Labor in accordance with the provisions of Davis-Bacon. **The higher of the two rates must be paid.** Attention is directed to the Special Conditions in the Contract Documents.

IB-22 INSURANCE; BONDS

The successful Bidder shall procure and maintain insurance in the form and in the amount specified in the Contract Documents.

Within the time specified in the Contract Documents, the successful bidder shall deliver to the AGENCY two identical counterparts of the Performance Bond and Payment (Labor and Materials) Bond in the form supplied by the AGENCY and included in the Contract Documents. Failure to do so may, in the sole discretion of AGENCY, result in the forfeiture of the Bid Security. The surety supplying the bond must be an admitted surety insurer, as defined in Code of Civil Procedure Section 995.120, authorized to do business in the State of California and satisfactory to the AGENCY. The Performance Bond and the Payment (Labor and Materials) Bond shall be for one hundred percent (100%) of the Total Bid Price. At the AGENCY'S discretion, it may allow Performance and Payment Bonds to be executed with digital signatures, in accordance with the same requirements of those Bid Bonds submitted and executed electronically. If allowed, the successful Bidder and surety agree that the Performance and Payment Bonds are authorized, and enforceable despite being submitted and signed electronically, and both waive any challenge to the form and/or validity of the bonds.

IB-23 SUBSTITUTION OF SECURITY

The Contract Documents call for monthly progress payments based upon the percentage of the Work completed. The AGENCY will retain a percentage of each progress payment as provided by the Contract Documents. At the request and expense of the successful Bidder, the AGENCY will substitute securities for the amount so retained in accordance with Public Contract Code Section 22300.

IB-24 INFORMATION REQUIRED OF BIDDERS FORM

Each Bidder shall complete the Information Required of Bidders Form provided herein and shall submit the questionnaire along with its Bid. Failure to provide all information requested within the questionnaire along with the Bid may cause the Bid to be rejected as non-responsive. The AGENCY reserves the right to reject any Bid if an investigation

INSTRUCTIONS TO BIDDERS-ADDENDUM NO.1

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of the information submitted does not satisfy the AGENCY that the Bidder is qualified to properly carry out the terms of the Contract.

IB-25 SALES AND OTHER APPLICABLE TAXES, PERMITS, LICENSES AND FEES

Contractor and its subcontractors performing work under this Contract will be required to pay California sales tax and other applicable taxes, and to pay for permits, licenses and fees required by the agencies with authority in jurisdiction in which the work will be located, unless otherwise expressly provided by the Contract Documents. Bidders shall include all applicable taxes, and fees in their bid price.

IB-26 WIFIA REQUIREMENTS

The successful Bidder will be required to comply with all terms and conditions imposed by WIFIA, including but not limited to the following: Build America, Buy America Act, American Iron and Steel, Disadvantaged Business Enterprises, and Davis-Bacon. Bidder shall refer to the Special Conditions for the requirements of WIFIA.

The Disadvantaged Business Enterprise ("DBE") Program is an EPA outreach, education, and goal program designed to increase and encourage the utilization and participation of DBEs in procurements funded by EPA assistance programs (73 FR 15904). The implementing regulations can be found at 40 CFR Part 33. Bidders shall make good faith efforts to assure that small, minority, and women-owned businesses are used when subcontracting. The good faith efforts include:

- Ensure DBEs are made aware of contracting opportunities to the fullest extent practicable through outreach and recruitment activities, including placing DBEs on solicitation lists and soliciting them whenever they are potential sources.
- Make information on forthcoming opportunities available to DBEs, arrange time
 frames for contracts, and establish delivery schedules, where the requirements
 permit, in a way that encourages and facilitates participation by DBEs in the
 competitive process. This includes, whenever possible, posting solicitations for
 bids for a minimum of 30 calendar days before the bid closing date.
- Dividing total requirements when economically feasible into smaller tasks or quantities to permit maximum participation by DBEs in the competitive process.
- Encourage contracting with a consortium of DBEs when a contract is too large for one of these firms to handle individually.
- Use the services and assistance of the SBA and the Minority Business Development Agency of the Department of Commerce.

In accordance with WIFIA, and as further detailed in Special Provisions, Bidders shall complete the following forms located in Bid Forms and submit them with their bids:

- American Iron and Steel Certification
- Build America, Buy America Certification
- Notice of Requirement for Affirmative Action to Ensure Equal Employment Opportunity
- Anti-Lobbying Certification
- DBE Good Faith Efforts Verification

Debarment and Suspension Certification

IB-27 California State Water Resources Control Board Grant Requirements

The successful Bidder will be required to comply with all terms and conditions set forth in the Finance Agreement and Guidelines issued by the State Water Resources Control Board for potential grant funding.

As further detailed in Special Provisions, Bidders shall complete the following DBE forms located in Bid Forms and submit them with their bids:

- DBE Subcontractor Performance Form
- DBE Subcontractor Utilization Form

DBE Contractors and subcontractors must be certified at bid-opening. Bidders shall provide Proof of DBE certification for all listed DBEs with their bids.

END OF SECTION

BID FORM-ADDENDUM NO. 1

AGENCY BOARD	Bidder:
SANTA CLARITA VALLEY WATER AGENCY	·
27234 Bouquet Canyon Road	
Santa Clarita, CA 91350	

Gentlepersons:

Pursuant to the attached Notice Inviting Bids, the undersigned Bidder hereby declares that it has carefully examined the location of the proposed Work, and has examined the Contract Documents, including all drawings, specifications, and all addenda, if any, for the following Work:

T7, U4, U6 WELLS PFAS TREATMENT, SAUGUS 1 AND 2 WELLS VOC TREATMENT AND NEW DISINFECTION FACILITY

We hereby propose and agree, on award by the AGENCY under this Bid, and in accordance with the provisions therein stated, to execute the Contract Documents, provide specification-required bonds and insurance documents, to furnish all labor, materials, equipment, tools, transportation, and services, and to discharge all duties and obligations necessary and required to perform and complete the Work in strict accordance with the Contract Documents and within the time hereafter set forth, at the prices set in the electronically submitted Bid Schedule.

Refer to Specification Section 01270 Measurement and Payment for description of Bid Items. Bidder shall not enter "N/A" on any bid item. Also, Bidder shall not modify or cross out any of the bid item descriptions and/or quantities. Please enter a dollar amount for each bid item.

The undersigned agrees that the electronic bid accompanied by this Bid Form constitutes a firm offer to the AGENCY which cannot be withdrawn for the number of calendar days indicated in the Notice Inviting Bids from and after the bid opening, or until a Contract for the Work is fully executed by the AGENCY and a third party, whichever is earlier.

The undersigned acknowledges understanding and full consideration of the electronically issued addenda to the Contract Documents.

The undersigned has carefully examined the location of the proposed Work and has read and examined the Contract Documents, including all plans, specifications, and all addenda, if any, for the proposed Work. The undersigned has checked the above amount and understands that the AGENCY will not be responsible for any errors or omissions on the part of the undersigned in making this Bid.

It is agreed that this Bid may not be withdrawn under any circumstances whatsoever within a period of ninety (90) days after the date set for the opening thereof.

BID FORM-ADDENDUM NO. 1

T7, U4, U6 WELLS PFAS TREATMENT, SAUGUS 1 AND 2 WELLS VOC TREATMENT AND NEW DISINFECTION FACILITY

The undersigned understands that the AGENCY reserves the right to reject any or all bids and to waive any informality in bids received that in the judgment of the AGENCY is to the best interest of the AGENCY. The AGENCY will determine the lowest responsive, responsible Bidder as defined in the Instruction to Bidders.

Bidder has submitted a Bid bond or check (certified or cashiers) for not less than ten percent (10%) of the total Base Bid amount of this Bid, and the undersigned agrees that, in case of his/her default in timely executing the contract or timely providing the specification-required bonds and insurance documents after award and due notice thereof, the said check or bond and the money payable thereon shall become and remain the property of the AGENCY as liquidated damages, without proof of actual loss. It is agreed that the AGENCY's actual damages would be impracticable and extremely difficult to determine and said liquidated damages amount is reasonable. If the Bid Bond is submitted electronically with digital signatures in accordance with the Instruction to Bidders, the undersigned and surety agree that the Bid Bond is authorized and enforceable despite being submitted and signed electronically and both waive any challenge to the form and/or validity of the Bid Bond.

In accordance with the specifications, the undersigned further agrees to so plan the Work and to prosecute it with such diligence that said Work shall be commenced within fifteen (15) days after the date established by the AGENCY in its Notice to Proceed. The CONTRACTOR shall diligently prosecute all portions of the Work to completion, tested and ready for service, by the dates defined in the Special Conditions.

The undersigned is aware of and understands the liquidated damages provisions of the agreement as specified in the General Conditions and in the Special Conditions. The undersigned certifies that the amount of reverse liquidated damages represents a fair and reasonable estimate of the amount of daily damages that the undersigned would incur as a result of an unreasonable delay.

The undersigned agrees, if awarded the Contract, that payment shall be made by the undersigned and by all subcontractors under him/her to all laborers, workers, and mechanics employed in the execution of such Contract, or any subcontract thereunder, not less than the general prevailing rate of per diem wages and rates for overtime and legal holidays in the locality in which the Work is to be performed, as ascertained and determined, pursuant to the State statute thereto applicable.

The estimated quantities for unit items are for bidding purposes only and the AGENCY makes no representation that the actual quantities of work performed will not vary from estimate.

Each of the bid items must be filled in and completed. The amount is for the work completed and includes any and all sales taxes and levies which may be applicable.

Note: The Bids will be evaluated, and the Contract will be awarded to the lowest responsive, responsible bidder based on the Base Bid Price.

BID FORM-ADDENDUM NO. 1

T7, U4, U6 WELLS PFAS TREATMENT, SAUGUS 1 AND 2 WELLS VOC TREATMENT AND NEW DISINFECTION FACILITY

In case of discrepancy between the unit price and the item cost set for a unit price item, the item cost, calculated at the unit price multiplied by the estimated quantity, shall prevail and shall be utilized as the basis for determining the lowest, responsive, and responsible bidder. However, if the amount set forth as a unit price is ambiguous, unintelligible or uncertain for any cause, or is omitted, or is the same amount as the entry in the "Item Price" column, then the amount set forth in the "Item Price" columns for the item shall prevail and shall be divided by the estimated quantity for the item and the price thus obtained shall be the unit price. If any of the above discrepancies exist, the AGENCY may recalculate the bid price on basis of the unit price and the bidder agrees to be bound by such recalculation. Final payment for the unit price items shall be determined by the AGENCY from measured quantities of work performed.

Bidder has examined copies of the following Addenda (receipt of which is hereby acknowledged):

Date		Number
	-	
	•	
	-	
	•	

The undersigned has carefully examined the location of the proposed Work and has read and examined the Contract Documents, including all plans, specifications, and all addenda, if any, for the proposed Work. The undersigned has checked the above amount and understands that the AGENCY will not be responsible for any errors or omissions on the part of the undersigned in making this Bid.

It is agreed that this Bid may not be withdrawn under any circumstances whatsoever within a period of ninety (90) days after the date set for the opening thereof.

The undersigned understands that the AGENCY reserves the right to reject any or all bids and to waive any informality in bids received that in the judgment of the AGENCY is to the best interest of the AGENCY. The AGENCY will determine the lowest responsive, responsible Bidder as defined in the Instruction to Bidders.

Enclosed herein is a Bid bond or check (certified or cashiers) for not less than ten percent (10%) of the total Base Bid amount of this Bid, and the undersigned agrees that, in case of his/her default in timely executing the contract or timely providing the specification-required bonds and insurance documents after award and due notice thereof, the said check or bond and the money payable thereon shall become and remain the property of the AGENCY as liquidated damages, without proof of actual loss. It is agreed that the AGENCY's actual damages would be impracticable and extremely difficult to determine and said liquidated damages amount is reasonable.

BID FORM-ADDENDUM NO. 1

T7, U4, U6 WELLS PFAS TREATMENT, SAUGUS 1 AND 2 WELLS VOC TREATMENT AND NEW DISINFECTION FACILITY

In accordance with the specifications, the undersigned further agrees to so plan the Work and to prosecute it with such diligence that said Work shall be commenced within fifteen (15) days after the date established by the AGENCY in its Notice to Proceed. The CONTRACTOR shall diligently prosecute all portions of the Work to completion, tested and ready for service, by the dates defined in the Special Conditions.

The undersigned is aware of and understands the liquidated damages provisions of the agreement as specified in the General Conditions and in the Special Conditions. The undersigned certifies that the amount of reverse liquidated damages represents a fair and reasonable estimate of the amount of daily damages that the undersigned would incur as a result of an unreasonable delay.

The undersigned agrees, if awarded the Contract, that payment shall be made by the undersigned and by all subcontractors under him/her to all laborers, workers, and mechanics employed in the execution of such Contract, or any subcontract thereunder, not less than the general prevailing rate of per diem wages and rates for overtime and legal holidays in the locality in which the Work is to be performed, as ascertained and determined, pursuant to the State statute thereto applicable.

BIDDER'S REPRESENTATIONS

1.	DECLARATION OF LICENSE STATUS.	The Bidder declar	es that it poss	esses a valid	State
of	California Class A, General Engineering C	Contractor license,	at the time of	submitting thi	s bid,
as	s follows:				

Bidder's License Number	
Classification	
License Expiration Date	

2. NON-COLLUSION DECLARATION. In accordance with Section 7106 of the Public Contracts Code, Bidder is required to execute the following Non-Collusion Declaration.

NON-COLLUSION DECLARATION TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID

rne undersigned declares:	
I am the	of , the party making the foregoing bid.
partnership, company, association, organization collusive or sham. The bidder has not directly of to put in a false or sham bid. The bidder has not connived, or agreed with any bidder or anyone bidding. The bidder has not in any manner, direcommunication, or conference with anyone to fix or to fix any overhead, profit, or cost element of statements contained in the bid are true. The bor her bid price or any breakdown thereof, or the data relative thereto, to any corporation, partnership.	or on behalf of, any undisclosed person, in, or corporation. The bid is genuine and not or indirectly induced or solicited any other bidder of directly or indirectly colluded, conspired, else to put in a sham bid, or to refrain from eatly or indirectly, sought by agreement, in the bid price of the bidder or any other bidder, if the bid price, or of that of any other bidder. All idder has not, directly or indirectly, submitted his e contents thereof, or divulged information or riship, company association, organization, bid of effectuate a collusive or sham bid, and has not
Any person executing this declaration of partnership, joint venture, limited liability compaentity, hereby represents that he or she has full declaration on behalf of the bidder.	
I declare under penalty of perjury under foregoing is true and correct and that this decla	the laws of the State of California that the ration is executed on
[date], at	[city],
[state].	
Sigr	nature:
Nan	ne:
Title	·

BID FORM-ADDENDUM NO. 1

T7, U4, U6 WELLS PFAS TREATMENT, SAUGUS 1 AND 2 WELLS VOC TREATMENT AND NEW DISINFECTION FACILITY

3. BIDDER'S SIGNATURE	Bidder:
(RE: Bid and representations)	Signature:
	Name/Title:
	Business Address:
	Business Tel:
Dated	
Home Office Address (if different from ab	ove): NON-COLLUSION DECLARATION IS REQUIRED
Telephone	

Signing of Bid

If the Bid is made by an individual, it shall be signed by him/her; if made by a partnership, it shall be signed with the partnership name by a partner, who shall also sign his/her name and list all other partners; and if made by a corporation, it shall be signed by a duly authorized officer or officers, with their titles specified, and with the corporation's state of incorporation listed.

BID FORM-ADDENDUM NO. 1

T7, U4, U6 WELLS PFAS TREATMENT, SAUGUS 1 AND 2 WELLS VOC TREATMENT AND NEW DISINFECTION FACILITY

DESIGNATION OF EQUIPMENT OR MATERIAL MANUFACTURERS (do not show dealer or supplier unless specifically called for below)

Pursuant to Public Contract Code Section 3400(c), the AGENCY, in order to ensure continuous operation of the AGENCY'S facility and to facilitate maintenance of the essential facilities, is standardizing the products, things or services to be provided under this Contract to match the products, things, or services in use in the facility. The AGENCY is designating the following sole source materials, products, things or services by specific brand or trade name to be provided by the CONTRACTOR under the Contract. The brand or trade names of such sole source materials, products, things, or services are specified below. No substitutions will be allowed for these items.

Spec. Section	Product/Equipment Description	Brand or Trade Name
11220	Static Mixer	Westfall
11240	Sodium Hypochlorite Chemical Pumps	Milton Roy Milroyal B
11240	Liquid Ammonia Sulfate Chemical Pumps	Milton Roy mRoy A
13150	On-Site Generator Sodium Hypochlorite System	De Nora
15100	Valve Operators and Electric Valve Actuators	AUMA
15115	PVC and CPVC Valves	Spears
16495	Low Voltage Variable Frequency Drives (VFD)	Rockwell Automation (Allen-Bradley)
17120/13150	Programmable Logic Controllers	Allen-Bradley Compact Logix
17703	Transit-Time Flow Meters	Titian Metraflow
17745/13150	Radar Level Measurement System	Vega
17831	Chlorine Analyzers (pH sensors)	Prominent
17832	Nitrate Analyzer	ChemScan

The Bidder states that the manufacturer of each listed item of equipment or material proposed by the CONTRACTOR for use on this project will be as listed below:

Spec. Section	Description	Equipment or Material Manufacturers/Fabricators (Name one only)
02080	Asphalt Paving	
02710	Storm Drains and Roof Drains	
02820	Ornamental Fences and Gates	
08110	Steel Doors and Frames	
08330	Roll-up Doors	
10524	Emergency Showers/Eyewash Stations	
06610	FRP Floors	

BID FORM-ADDENDUM NO. 1

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Spec. Section	Description	Equipment or Material Manufacturers/Fabricators (Name one only)	
11216	Submersible Turbine Pumps	(name one only)	
11230	Cartridge Filters		
11416	GAC Media		
13204	Granular Activated Carbon System		
13206	Ion Exchange System		
13207	Polyethylene Storage Tanks		
15006	Ductile Iron Pipe		
15008	PVC, CPVC Pipe		
15011	PVDF Pipe		
15102	Steel Pipe		
15020	Pipe Supports		
15101	Butterfly Valves		
15104	Ball Valves		
15105	Check Valves		
15107	Electronic Flow Control Valves		
15108	Gate Valves		
15113	Air Valves		
15170	Low Voltage Electric Motors		
15590	Fans		
16280	Surge Protection Devices		
16440	Disconnect Switches		
16470	Panelboards		
16481	Individual Motor Starters		
16902	Electric Controls and Relays		
17180	Ethernet Switches		
17190	Uninterruptible Power Supply		
17512	Cabinet Air Conditioning Units		

BID FORM-ADDENDUM NO. 1 T7, U4, U6 WELLS PFAS TREATMENT, SAUGUS 1 AND 2 WELLS VOC TREATMENT AND NEW DISINFECTION **FACILITY**

Spec. Section	Description	Equipment or Material Manufacturers/Fabricators (Name one only)
17560	Control System Surge Protection Devices	
17640	Pressure Gauges	
17670	Level Switches	
17675	Pressure Switches	
17701	Magnetic Flow Meters	
17760	Pressure Indicating Transmitters	

The CONTRACTOR must include in the space provided, the name of the equipment or material manufacturer he/she has used in determining his/her base bid which will be used by the CONTRACTOR in constructing the project. If the CONTRACTOR does not fill in any of the spaces, it will be considered that the CONTRACTOR has selected the first-named manufacturer as his/her selection for those spaces not filled in.

After the opening of bids, no changes or substitutions from those listed manufacturers will be allowed without the express written approval of the AGENCY. If such change is permitted by the AGENCY, it will be evaluated in accordance with provisions of the Contract Documents pertaining to substitutions and equals.

It is the responsibility of the CONTRACTOR to furnish materials and equipment meeting the requirements of the project specifications, and acceptance of the bid does not constitute nor imply approval of items proposed. The AGENCY reserves the right to deny approval of any equipment or materials which do not comply with project specifications even though listed herein. AGENCY approval of changes in equipment or material suppliers shall not change or modify in any way CONTRACTOR's obligation to complete all Work at the prices set forth in the Bid.

DESIGNATION OF SUBCONTRACTORS

Each Bidder shall set forth on provided Designation of Subcontractors Form: 1) the name, the location of the place of business and California contractor license number of each subcontractor who will perform labor, fabricate a portion of the Work or improvement according to detailed drawings in the project plans, or render service to the CONTRACTOR in or about the construction of the Work; and 2) the portion of the Work which will be done by each such subcontractor who will perform work or labor or render services to the CONTRACTOR in or about the construction of the Work in an amount in excess of one-half of one percent (½ %) of the CONTRACTOR's Total Bid Price.

Notwithstanding the forgoing, if the work involves streets and highways, or bridge work then the CONTRACTOR shall list each subcontractor who will perform work or labor or render services to CONTRACTOR in or about the work in excess of one-half of one percent (½ %) of the CONTRACTOR's Total Bid Price or ten thousand dollars (\$10,000), whichever is greater.

If the CONTRACTOR fails to specify a subcontractor for a portion of the Work, or if more than one subcontractor is specified for the same portion of Work, then the CONTRACTOR shall be deemed to have agreed that it is fully qualified to perform that Work, and that it shall perform that portion itself. Note that alternative subcontractors for the same work are not permitted under the California Public Contract Code.

CONTRACTOR or subcontractor shall not be qualified to bid on, be listed in a bid proposal, subject to the requirements of Section 4104 of the Public Contract Code, or engage in the performance of any contract for public work, unless currently registered with the Department of industrial Relations (DIR) and qualified to perform public work pursuant to Section 1725.5 of Labor Code.

Each Bidder shall complete and submit on the provided Subcontractor Workers Classifications Form the following: 1) business name of each subcontractor will perform labor, fabricate a portion of the Work, or render services in or about the construction of the Work; 2) registration number with the DIR for each subcontractor; 3) subcontractor designated contact person name, title, phone number and e-mail address and 4) subcontractor worker classifications will be utilized for the Work.

In accordance with Section 4100 to Section 4113, inclusive, of the Public Contract Code of the State of California and with Section 1725.5 of the Labor Code, as amended, the following is submitted concerning subcontractors:

(Attach additional pages, if needed, for listing all required information.)

BID FORM-ADDENDUM NO. 1

T7, U4, U6 WELLS PFAS TREATMENT, SAUGUS 1 AND 2 WELLS VOC TREATMENT AND NEW DISINFECTION FACILITY

SUBCONTRACTORS DESIGNATION FORM

Portion of Work	Subcontractor Name	Location of Business	CSLB License Number & Class	DIR Registration Number	% of the Work
					_

SUBCONTRACTORS WORKERS CEASSIFICATIONS FORW						
Subcontractor Business N	ame					
Subcontractor Registratio	n Number with	DIR				
Contact Person Name						
Contact Person Title						
Contact Person Phone Nu	mber					
Contact Person E-mail Add	lress					
Workers Classifications						
ASBESTOS	BOILERMAKER		BRICKLAYERS	CARPENTERS		
CARPET/LINOLEUM	CEMENT M	IASONS	DRYWALL FINISHER	DRYWALL/LATHERS		
ELECTRICIANS	ELECTRICIANS ELEVATOR MECHANIC		GLAZIERS	IRON WORKERS		
LABORERS	LABORERS MILLWRIGHTS		OPERATING ENG	PAINTERS		
PILE DRIVERS	ILE DRIVERS PIPE TRADES		PLASTERERS	ROOFERS		
SHEET METAL	SOUND /CO	DMM	SURVEYORS	TEAMSTER		
TILE WORKERS						
0-1						
Subcontractor Business Name						
Subcontractor Registration Number with DIR						
Contact Person Name						
Contact Person Title						
Contact Person Phone Nu						
Contact Person E-mail Add	iress					
Workers Classifications		1455		1 10.0000		
ASBESTOS	BOILERMA		BRICKLAYERS	CARPENTERS		
CARPET/LINOLEUM	CEMENT M		DRYWALL FINISHER	DRYWALL/LATHERS		
ELECTRICIANS		MECHANIC	GLAZIERS	IRON WORKERS		
	LABORERS MILLWRIGHTS		OPERATING ENG	PAINTERS		
	PILE DRIVERS PIPE TRADES		PLASTERERS	ROOFERS		
SHEET METAL SOUND /COMM		SURVEYORS	TEAMSTER			
TILE WORKERS						

SUBCONTRACTORS WORKERS CLASSIFICATIONS FORM

BID FORM - ADDENDUM NO. 1

SU	IBCONTRACTORS WORKER	S CLASSIFICATIONS FOR	М			
Subcontractor Business Name						
Subcontractor Registration Number with DIR						
Contact Person Name						
Contact Person Title						
Contact Person Phone Number						
Contact Person E-mail Address						
Workers Classifications						
ASBESTOS	BOILERMAKER	BRICKLAYERS	CARPENTERS			
CARPET/LINOLEUM	ARPET/LINOLEUM CEMENT MASONS		DRYWALL/LATHERS			
ELECTRICIANS	ECTRICIANS ELEVATOR MECHANIC		IRON WORKERS			
LABORERS	MILLWRIGHTS	OPERATING ENG	PAINTERS			
PILE DRIVERS	PIPE TRADES	PLASTERERS	ROOFERS			
SHEET METAL	SOUND /COMM	SURVEYORS	TEAMSTER			
TILE WORKERS						
Subcontractor Business N						
Subcontractor Registratio	on Number with DIR					
Contact Person Name						
Contact Person Title						
Contact Person Phone Number						
Contact Person E-mail Add	dress					
Workers Classifications		BRICKLAYERS				
	SBESTOS BOILERMAKER		CARPENTERS			
CARPET/LINOLEUM	CEMENT MASONS	DRYWALL FINISHER	DRYWALL/LATHERS			
ELECTRICIANS	ELEVATOR MECHANIC	GLAZIERS	IRON WORKERS			
LABORERS	MILLWRIGHTS	OPERATING ENG PLASTERERS	PAINTERS			
PILE DRIVERS			ROOFERS			
	SHEET METAL SOUND /COMM		TEAMSTER			
TILE WORKERS						

INFORMATION REQUIRED OF BIDDERS

A. INFORMATION ABOUT BIDDER

Failure to complete all information may render bid non-responsive.

The Bidder authorizes the AGENCY to use the information provided on these Bid forms and/or obtained from the Project Owners listed below to evaluate the Bidder's responsibility.

NOTE: Where Bidder is a joint venture, pages shall be duplicated, and information provided for all parties to the joint venture.

1.	Name of Bidder
2.	Type, if Entity:
3.	Bidder's Address:
4.	Bidder's Telephone Number:
5.	Bidder's Email:
	How many years has Bidder's organization been in business as a Contractor?
7.	How many years has Bidder's organization been in business under its present name?
8.	Under what other or former names has Bidder's organization operated?

BF-13

9.	. If Bidder's organization is a corporation, answer the following:		
	9.1	Date of Incorporation:	
	9.2	State of Incorporation:	
	9.3	President's Name:	
	9.4	Vice-President's Name(s)	
	9.5	Secretary's Name:	
	9.6	Treasurer's Name:	
10.	If an	individual or a partnership, answer the following:	
	10.1	Date of Organization:	
	10.2	Name and address of all partners (state whether general or limited partnership):	
11	If oth	or than a corporation or partnership, describe organization and name principals:	
11. If other than a corporation or partnership, describe organization and name principals:			
	1	2. List other states in which Bidder's organization is legally qualified to do business:	

13.	What type of work does the Bidder perform with its own forces?
14.	Has Bidder ever failed to complete any work awarded to it? If so, note when, where, and why:
15.	Within the last five years, has any officer or partner of Bidder's organization ever been an officer or partner of another organization that failed to complete a contract? If so, attach a separate sheet of explanation:

16.	Bidder has never been disqualified or otherwise prevented from bidding on a project funded by an agency of the federal government, any state, or any local agency, except as follows:
	(List any exceptions and reasons therefore. Use attachments, if necessary).
17.	Bidder, as a CONTRACTOR, has never failed to satisfactorily complete an awarded contract except as follows:
18.	Has CAL OSHA cited and assessed penalties against Bidder for any "serious", "willful" or "repeat" violations of its safety or health regulations in the past five years? NOTE: If Bidder has filed an appeal of a citation, and the California Occupational Safety and Health Appeals Board has not yet ruled on Bidder's appeal, Bidder need not include information about it.
	Yes No
	If "yes", attach a separate signed page describing the citations, including information about the dates of the citations, the nature of the violation, the project on which the citation(s) was or were issued, and the amount of penalty paid, if any of the citation was appealed to the Occupational Safety and Health Appeals

BID FORM ADDENDUM NO. 1

Board and a decision has been issued, state the case number and the date of

the decision.

B. CONTRACTOR

List and describe the projects that are similar in size, scope and complexity to the Work to demonstrate the Contractor's ability to perform the required Work. Reference the Notice Inviting Bids for minimum requirements. Attach additional pages if needed for listing additional completed projects.

3.1	
Project Name:	
Name of Project Owner:	
Location:	
Year Completed:	
Description of Contractor's Work:	
Contract Amount:	
Person to Contact: Name:	
Telephone No.:	
3.2	
Project Name:	
Name of Project Owner:	
Location:	
Year Completed:	
Description of Contractor's Work:	
Contract Amount:	
Person to Contact: Name:	
Telephone No.:	

C. CONTRACTOR'S SUPERINTENDENT

The Bidder shall identify the Superintendent to be assigned to this project. List and describe the project that is similar in size, scope and complexity to the Work to demonstrate the Superintendent's ability to perform the required Work. Reference the Notice Inviting Bids for minimum requirements. Attach additional pages if needed for listing additional completed projects.

J.1	
Superintendent's Name:	
Project Name:	
Name of Project Owner:	
Location:	
Year Completed:	
Description of Contractor's Work:	
Contract Amount:	
Person to Contact: Name:	
Telephone No.:	

Ο.	EX	PERIENCE AND TECHNICAL QUALIFICATIONS QUESTIONNAIRE
		e Bidder shall identify the key personnel to be assigned to this project in a management, astruction supervision or engineering capacity.
	1.	List General Contractor's Project Manager (PM) name, and Superintendent name:
	2.	Summarize General Contractor's PM's and Superintendent's experience/education:
	3.	List the General Contractor's PM and Superintendent's years of construction experience of relevant to the project:

Bidder agrees that personnel named in this Bid will remain on this project in their designated capacities until completion of all Work, unless replaced by personnel of equivalent experience and qualifications and approved in advance by the AGENCY.

Additional Bidder's Statement:

If Bidder feels that there is additional information which has not been requested in the questionnaire above, and which would contribute to the qualifications review, it may add that information in statement here or on an additional sheet, appropriately marked:

E. VERIFICATION AND EXECUTION

These Bid forms shall be executed only by a duly authorized official of the Bidder.

I declare under penalty of perjury under the laws of the State of California that the foregoing information is true and correct:

Name of Bidder:		
Ву:		
	Signature	
Name:		
	Print	
Title:		
Dated:		

IRAN CONTRACTING ACT CERTIFICATION (Public Contract Code section 2200 et seq.)

As required by California Public Contract Code section 2204, the CONTRACTOR certifies subject to penalty for perjury that the option checked below relating to the CONTRACTOR's status in regard to the Iran Contracting Act of 2010 (Public Contract Code section 2200 *et seq.*) is true and correct:

The CONTRACTOR is not:

- (i) identified on the current list of persons and entities engaging in investment activities in Iran prepared by the California Department of General Services in accordance with subdivision (b) of Public Contract Code section 2203; or
- (ii) a financial institution that extends, for forty five (45) days or more, credit in the amount of twenty millions dollars (\$20,000,000) or more to any other person or entity identified on the current list of persons and entities engaging in investment activities in Iran prepared by the California Department of General Services in accordance with subdivision (b) of Public Contract Code section 2203, if that person or entity uses or will use the credit to provide goods or services in the energy sector in Iran.

 Υ Agency has exempted the CONTRACTOR from the requirements of the Iran Contracting Act of 2010 after making a public finding that, absent the exemption, Agency will be unable to obtain the goods and/or services to be provided pursuant to the Contract.

 Υ The amount of the Contract payable to the CONTRACTOR for the Work does not exceed one million dollars (\$1,000,000).

Signature: _		
Name/Title: _		
Contractor: _		
Date:		

Note: In accordance with Public Contract Code section 2205, false certification of this form shall be reported to the California Attorney General and may result in civil penalties equal to the greater of two hundred fifty thousand dollars (\$250,000) or twice the Contract Price, termination of the Contract and/or ineligibility to bid on contracts for three years.

EXECUTIVE ORDER N-6-22 CERTIFICATION

Executive Order N-6-22 issued by Governor Gavin Newsom on March 4, 2022, directs all agencies and departments that are subject to the Governor's authority to (a) terminate any contracts with any individuals or entities that are determined to be a target of economic sanctions against Russia and Russian entities and individuals; and (b) refrain from entering into any new contracts with such individuals or entities while the aforementioned sanctions are in effect.

Executive Order N-6-22 also requires that any contractor that: (1) currently has a contract with the AGENCY funded through grant funds provided by the State of California; and/or (2) submits a bid or proposal or otherwise proposes to or enter into or renew a contract with the AGENCY with State of California grant funds, certify that the person is not the target of any economic sanctions against Russia and Russian entities and individuals.

The contractor hereby certifies, SUBJECT TO PENALTY OF PERJURY, that a) the contractor is not a target of any economic sanctions against Russian and Russian entities and individuals as described in Executive Order N-6-22 and b) the person signing below is duly authorized to legally bind the contractor. This certification is made under the laws of the State of California.

gnature:
inted Name:
tle:
ontractor:
ate:

PUBLIC WORKS CONTRACTOR REGISTRATION CERTIFICATION

Pursuant to Labor Code sections 1725.5 and 1771.1, all contractors and subcontractors that wish to bid on, be listed in a bid proposal, or enter into a contract to perform public work must be registered with the Department of Industrial Relations. See http://www.dir.ca.gov/Public-Works/PublicWorks.html for additional information.

No bid will be accepted, nor any contract entered into without proof of the contractor's and subcontractors' current registration with the Department of Industrial Relations to perform public work.

Bidder hereby certifies that it is aware of the registration requirements set forth in Labor Code sections 1725.5 and 1771.1 and is currently registered as a contractor with the Department of Industrial Relations.1

Name of Bidder:

		DIR Registration Number:
		DIR Registration Expiration:
		Small Project Exemption: Yes or No
Jnless Bio	dder	is exempt pursuant to the small project exemption, Bidder further acknowledges:
	2.	Bidder shall maintain a current DIR registration for the duration of the project. Bidder shall include the requirements of Labor Code sections 1725.5 and 1771.1 in its contract with subcontractors and ensure that all subcontractors are registered at the time of bid opening and maintain registration status for the duration of the project. Failure to submit this form or comply with any of the above requirements may result in a finding that the bid is non-responsive.
Signature <u>.</u>		
Name and	l Titl	e
Dated		

BID FORM ADDENDUM NO. 1

¹ If the Project is exempt from the contractor registration requirements pursuant to the small project exemption under Labor Code Sections 1725.5 and 1771.1, please mark "Yes" in response to "Small Project Exemption."

BIDDER WORKERS CLASSIFICATIONS FORM				
Contractor Business Name	e			
Contact Person Name				
Contact Person Title				
Contact Person Phone Nu	ımber			
Contact Person E-mail Add	dress			
Workers Classifications				
ASBESTOS	BOILERMAKER	BRICKLAYERS	CARPENTERS	
CARPET/LINOLEUM	CEMENT MASONS	DRYWALL FINISHER	DRYWALL/LATHERS	
ELECTRICIANS	ELEVATOR MECHANIC	GLAZIERS	IRON WORKERS	
LABORERS	MILLWRIGHTS	OPERATING ENG	PAINTERS	
PILE DRIVERS	PIPE TRADES	PLASTERERS	ROOFERS	
SHEET METAL	SOUND /COMM	SURVEYORS	TEAMSTER	
TILE WORKERS				

BID BOND

[Note: Not required when other form of Bidder's Security, e.g. certified check or cashier's check, accompanies bid.]

KNOW ALL PERSONS BY THESE PRESENTS:	
THAT WHEREAS,	REATMENT AND NEW DISINFECTION lcy, 27234 Bouquet Canyon Road, Santa
NOW THEREFORE, we Principal,	
	a corporation duly organized under the
laws of the State of	
in the S	
	nduct surety business in the State of California,
(hereinafter called the "Surety"), are held and fire	
sum of \$	Dollars,
(\$) [being at lea	Dollars, ast ten percent (10%) of the total amount of
Principal's bid price] lawful money of the United S	States, for the payment of which we bind
ourselves, our heirs, executors, administrators, s	uccessors, and assigns, jointly and severally,
firmly by these presents.	
THE CONDITIONS OF THIS OBLIGATION ARE	SLICH THAT:

If Principal's Bid is rejected or, in the alternate, if the Bid is accepted and the Principal signs and delivers a Contract and furnishes evidence of insurance and Performance Bond and Payment Bond, all in the Form and within the time requested by the Contract Documents, then this obligation shall become null and void, otherwise the same shall remain in full force and effect and upon default of the Principal shall be forfeited to the Obligee, it being expressly understood and agreed that the liability of the Surety for any and all default of the Principal shall be the amount of this obligation as herein stated, as liquidated damages.

The Surety, for value received, hereby agrees that the obligations of Surety and its bond shall not be impaired or affected by any extension of the time within which the Obligee may accept the bond, and the Surety hereby waives notice of any such extension.

In the event suit is brought upon this bond by the Obligee and judgment is recovered, the Surety shall pay, in addition to the sum set forth above, all costs incurred by the Obligee in such suit, including reasonable attorney's fees and expert witness fees, to be fixed by the court, in addition to the penal sum of the Bond.

BID FORM ADDENDUM NO. 1

	parties have executed this instrument under thein, 20, the name and corporate seal o
(Corporate Seal)	Contractor/Principal By Title
(Corporate Seal)	Surety By Attorney-in-Fact
(Attach Attorney-in-Fact Certificate)	Title
of corporate authority attached. An ori person signing on behalf of the Surety	per thousand. The total amount of premium

THE FOLLOWING INFORMATION IS MANDATORY

Any claims under this bond may be a	addressed to:
(Name and Address of Surety)	
(Name and Address of Agent or Representative for service of process in California, if different	
from above)	
(Telephone number of Surety and Agent or Representative for service	
of process in California)	

Notary Acknowledgment

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

STATE OF CALIFORNIA COUNTY OF			
			, Notary Public, personally
appeared	Name(s) of	Signer(s)	, who proved to me on the basis of satisfactory
evidence to be the perso me that he/she/they exe	n(s) whecuted	lose name(s) is/a the same in his/l	re subscribed to the within instrument and acknowledged to ner/their authorized capacity(ies), and that by his/her/their ne entity upon behalf of which the person(s) acted, executed
I certify under PENALTY is true and correct.	OF PE	RJURY under the	laws of the State of California that the foregoing paragraph
			WITNESS my hand and official seal.
Signature of Not	ary Public		
		(OPTIONAL
Though the informa and coul	ition belo d preven	w is not required by l t fraudulent removal a	aw, it may prove valuable to persons relying on the document and reattachment of this form to another document.
CAPACITY CLAIN	IED BY	SIGNER	DESCRIPTION OF ATTACHED DOCUMENT
IndividualCorporate Officer			
Titl	e(s)		Title or Type of Document
" Partner(s) "	Lim Ger	ited neral	Number of Pages
·· Attorney-In-Fact	001	iorai	. Tanings, S. C. ages
Trustee(s)Guardian/Conservator			Date of Document
" Other: Signer is representing: Name Of Person(s) Or Entity(ies)			
			Signer(s) Other Than Named Above

BID FORM ADDENDUM NO. 1

T7, U4, U6 WELLS PFAS TREATMENT, SAUGUS 1 AND 2 WELLS VOC TREATMENT AND NEW DISINFECTION FACILITY PROJECT NO. 1000420

CERTIFICATE FOR WORKERS' COMPENSATION INSURANCE

(Required by Section 1861, California Labor Code)

TO:	O: Santa Clarita Valley Water Agency	
requi self-i	am aware of the provisions of Section 3700 of the Labor Co equire every employer to be insured against liability for work elf-insurance in accordance with the provisions of that Code rovisions before commencing the performance of the Work of	ers' compensation or to undertake , and I will comply with such
	Name of Bido	der
	Signature	
	Name	
	Title	
	Dated	

Signing of Security for Compensation Certificate

If the Bid is made by an individual, the Certificate shall be signed by him/her; if made by a partnership, the Certificate shall be signed with the partnership name by a partner, who shall also sign his/her name and list all other partners; and if made by a corporation, the Certificate shall be signed by a duly authorized officer or officers, with their titles specified, and with the corporation's state of incorporation listed.

AMERICAN IRON AND STEEL CERTIFICATION

- 1. Identification of American-made Iron and Steel Products: The Bidder certifies that this bid reflects the Bidder's best, good faith effort to identify domestic sources of iron and steel products for every component contained in the bid solicitation where such American-made components are required. The term "iron and steel products" means the following products made primarily of iron or steel lined or unlined pipes and fittings, manhole covers and other municipal castings, hydrants, tanks, flanges, pipe clamps and restraints, valves, structural steel, reinforced precast concrete, and construction materials.
- 2. Verification of U.S. Production: If this bid is accepted, the Bidder agrees that it will provide, to the District, reasonable, sufficient, and timely verification of the U.S. production of each Iron and Steel Product incorporated into the Project.
- 3. Documentation Regarding Non-American-made Iron and Steel: The Bidder certifies that for any Iron or Steel Product that is not American-made but was incorporated in the development of this bid, is allowed by waiver of the U.S. Environmental Protection Agency and such waiver is attached to this certification.
- 4. Warranty of Bidder: The Bidder hereby represents and warrants to and for the benefit of District that (a) Bidder has reviewed and understands the American Iron and Steel Requirement, and (b) if the bid is selected, all of the iron and steel products used in the project will be produced in the United States in a manner that complies with the American Iron and Steel Requirement, unless a waiver of the requirement is attached to this certification.

Signature:	
Name (Printed):	
and Title (Printed):	of Signer (Please Print
Dated:	

Q & A's, Waiver request instructions, and a list of approved waivers can be found at http://water.epa.gov/grants_funding/aisrequirement.cfm

BUILD AMERICA, BUY AMERICA CERTIFICATION

Bidder hereby represents and warrants it shall:

- Comply with all federal requirements applicable to the assistance received (including those imposed by the Infrastructure Investment and Jobs Act ("IIJA"), Public Law No. 117-58) which the Bidder understands includes, but is not limited to, the following requirements: that all of the iron and steel, manufactured products, and construction materials used in the Project are to be produced in the United States ("Build America, Buy America Requirements") unless (i) the Bidder has requested and obtained a waiver from the cognizant agency pertaining to the Project or the Project is otherwise covered by a general applicability waiver; or (ii) all of the contributing agencies have otherwise advised the Bidder in writing that the Build America, Buy America Requirements are not applicable to the Project.
- Comply with all record keeping and reporting requirements under all applicable legal authorities, including any reports required by the funding authority (such as EPA and/or the State), such as performance indicators of program deliverables, information on costs and project progress. Bidder understands that (i) each contract and subcontract related to the Project is subject to audit by appropriate federal and state entities and (ii) failure to comply with the applicable legal requirements and this Contract may result in a default hereunder that results in a repayment of the assistance agreement in advance of the maturity of the bonds, termination and/or repayment of grants, cooperative agreements, direct assistance or other types of financial assistance, and/or other remedial actions.

Signature:	
Name (Printed):	
and Title (Printed):	of Signer (Please Print)
Dated:	

NOTICE OF REQUIREMENT FOR AFFIRMATIVE ACTION TO ENSURE EQUAL EMPLOYMENT OPPORTUNITY (EXECUTIVE ORDER 11246) LOCATED AT 41 CFR § 60-4.2

- 1. The Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Specifications" set forth herein.
- 2. The goals and timetables for minority and female participation, expressed in percentage terms for the Contractor's aggregate workforce in each trade on all construction work in the covered area, are as follows:

Timetable	Goals for minority participation for	Goals for female participation in
	28.3%	6.9%

These goals are applicable to all the Contractor's construction work (whether or not it is Federal or federally assisted) performed in the covered area. If the Contractor performs construction work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the Contractor also is subject to the goals for both its federally involved and non-federally involved construction.

The Contractor's compliance with the Executive Order and the regulations in 41 CFR part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3(a), and its efforts to meet the goals. The hours of minority and female employment and training must be substantially uniform throughout the length of the Contract, and in each trade, and the Contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from contractor to contractor or from project to project for the sole purpose of meeting the Contractor's goals shall be a violation of the Contract, the Executive Order and the regulations in 41 CFR part 60-4. Compliance with the goals will be measured against the total work hours performed.

- 3. The Contractor shall provide written notification to the Director of the Office of Federal Contract Compliance Programs within 10 working days of award of any construction subcontract in excess of \$10,000 at any tier for construction work under the contract resulting from this solicitation. The notification shall list the name, address and telephone number of the subcontractor; employer identification number of the subcontractor; estimated dollar amount of the subcontract; estimated starting and completion dates of the subcontract; and the geographical area in which the subcontract is to be performed.
- 4. As used in this Notice, and in the Contract resulting from this solicitation, the "covered area" is Santa Clarita, Los Angeles County, California.

BID FORM ADDENDUM NO. 1

ANTI-LOBBYING CERTIFICATION

The undersigned certifies, to the best of his or her knowledge and belief, that:

- (1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
- (2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form LLL. "Disclosure Form to Report Lobbying," in accordance with its instructions.
- (3) The undersigned shall require that the language of this certification be included in the award documents for all sub-awards at all tiers (including sub-contracts, sub-grants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

T 1N 0 T'' (A 11 ' 15 15	
Typed Name & Title of Authorized Representative	
Signature and Date of Authorized Representative	

DBE GOOD FAITH EFFORTS VERIFICATION

Project:	Bi	d Opening Date
Bidder Name:		
Bidder Phone Number:		
Bidder Address:		
The AGENCY, in accordance with 40 CFR pertaining to the use of minority businesses, area firms (referred to herein as "DBEs").		
Please provide the following information, using this form with your bid. Bidder should also sub communication, newspaper clippings or simil Faith Effort requirements.	omit mail logs, phor	ne logs, electronic searches and
1. Solicitation Lists/Publications. The name for DBE participation for this project was advertisements or proofs of publication), or inf were included:	placed by the bid	dder (please attach copies of
Publications/Solicitation Lists	Dates of	Advertisement
2. Soliciting DBEs as Potential Sources. The DBEs soliciting bids for this project and the solicitations to determine with certainty wheth of solicitations, telephone records, fax confirm	e dates and metho er the DBEs were i	ds used for following up initial
Name of DBEs Solicited	Date of Initial Solicitation	Follow Up Methods and Dates
1	1	1

3. Division of Requirements. The items of work which the bidder made available to DBE firms
including, where appropriate, any breaking down of the contract work items (including those items
normally performed by the bidder with its own forces) into economically feasible units to facilitate
DBE participation. It is the bidder's responsibility to demonstrate that sufficient work to facilitate
DBE participation was made available to DBE firms.

Items of Work	Bidder Normally Performs Item? (Yes/No)	Breakdown of Items	Amount (\$)	Percentage of Total Bid (%)
		_	_	

Delivery Schedules. Efforts permits, which encourage partici enterprises:		•
4. Services of Other Agencies. provide assistance in contacting Administration and the Minority E (please attach copies of reques page download, etc.):	g, recruiting and using DBE fire Business Development Agency	ms, such as the Small Business of the Department of Commerce
Name of Agency/Organization	Method/Date of Contact	Results
Any additional data to support a necessary):	demonstration of good faith effo	orts (use additional sheets if

DEBARMENT AND SUSPENSION CERTIFICATION

Contractors, Subcontractors, Debarment and Suspension, Executive Order 12549; 2 CFR Part 180; 2 CFR Part 1532

Bidder certifies that it and its principals, and shall obtain certifications from its subcontractors that they and their principals:

- (a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded by any federal department or agency;
- (b) Have not within a three (3) year period preceding this procurement been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (federal, state or local) transaction or contract under a public transaction; violation of federal or state antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
- (c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (federal, state or local) with commission of any of the offenses enumerated in paragraph (b) of this certification; and
- (d) Have not within a three (3) year period preceding this application/proposal had one or more public transactions (federal, state or local) terminated for cause or default.
- (e) Suspension and debarment information can be accessed at http://www.sam.gov. Contractor represents and warrants that it has or will include a term or conditions requiring compliance with this provision in all of its contracts and subcontracts under this Agreement.
- (f) Contractor acknowledges that failing to disclose the information as required at 2 CFR 180.335 may result in the termination, delay or negation of any Contract entered into pursuant to this procurement, or pursuance of legal remedies, including suspension and debarment.

Name of Bidder		
DUNS Number		
Signature		
Name		
Title	Dated	

BID FORM ADDENDUM NO. 1

T7, U4, U6 WELLS PFAS TREATMENT, SAUGUS 1 AND 2 WELLS VOC TREATMENT AND NEW DISINFECTION FACILITY

PROJECT NO. 1000420



Subcontractor Name

Bid / Proposal No.

Disadvantaged Business Enterprise (DBE) Program DBE Subcontractor Performance Form

This form is intended to capture the DBE¹ subcontractor's² description of work to be performed and the price of the work submitted to the prime contractor. A Financial Assistance Agreement Recipient must require its prime contractor to have its DBE subcontractors complete this form and include all completed forms in the prime contractor's bid or proposal package.

Project Name

Assistance Agreement ID No. (if known) Point of Contact

Address						
Telephone No.			Email Addr	ess		
Prime Contractor I	Vame		Issuing/Fur	ding Entity		
Contract Item Number	Description of Con	Work Submitted from	m the Prime Equipment o	Contractor r Supplies	r Involving	Price of Work Submitted to the Prime Contractor
DBE Certified By:	DOT SBA		Meets/exce	eds EPA ce	ertification standa	rds?
Other:			YES	NO	Unknown	

FORM 4500-3 (DBE Subcontractor Performance Form)

Revised 12/2016

BID FORM ADDENDUM NO. 1

¹ A DBE is a Disadvantaged, Minority, or Woman Business Enterprise that has been certified by an entity from which EPA accepts certifications as described in 40 CFR 33.204-33.2015 or certified by EPA. EPA accepts certifications from entities that meet or exceed EPA certification standards as described in 40 CFR 33.202.

² Subcontractor is defined as a company, firm, joint venture, or individual who enters into an agreement with a contractor to provide services pursuant to an award of financial assistance.

I certify under penalty of perjury that the forgoing statements are true and correct. Signing this form does not signify a commitment to utilize the subcontractors above. I am aware that in the event of a replacement of a subcontractor, I will adhere to the replacement requirements set forth in 40 CFR Part 33 Section 33.302 (c).

Prime Contractor Signature	Print Name
Title	Date

Subcontractor Signature	Print Name
Title	Date

The public reporting and record keeping burden for this collection of information is estimated to average three (3) hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Do not send the completed form to this address.

FORM 4500-3 (DBE Subcontractor Performance Form)

Revised 12/2016

BID FORM ADDENDUM NO. 1

T7, U4, U6 WELLS PFAS TREATMENT, SAUGUS 1 AND 2 WELLS VOC TREATMENT AND NEW DISINFECTION FACILITY PROJECT NO. 1000420



Disadvantaged Business Enterprise (DBE) Program DBE Subcontractor Utilization Form

This form is intended to capture the prime contractor's actual and/or anticipated use of identified certified DBE1 subcontractor's 2 and the estimated dollar amount of each subcontract. A Financial Assistance Agreement Recipient must require its prime contractors to complete this form and include it in the bid or proposal package. Prime contractors should also maintain a copy of this form on file.

Prime Contractor Name			Project Name		
Bid / Proposal No.	Assistance Agreeme		t ID No. (if known)	Point of Contact	
Address					
Telephone No.			Email Address		
Issuing/Funding Entity					
I have identified potential If yes, please complete the			ESNO		
Subcontractor Name/ Company Name		Company Address / P	hone / Email	Estimated Dollar Amount	Currently DBE Certified?
		Continue on b	ack if needed		

FORM 4500-4 (DBE Subcontractor Utilization Form)

Revised 12/2016

BID FORM ADDENDUM NO. 1

T7, U4, U6 WELLS PFAS TREATMENT, SAUGUS 1 AND 2 WELLS VOC TREATMENT AND NEW DISINFECTION **FACILITY PROJECT NO. 1000420**

¹ A DBE is a Disadvantaged, Minority, or Woman Business Enterprise that has been certified by an entity from which EPA accepts certifications as described in 40 CFR 33.204-33.2015 or certified by EPA. EPA accepts certifications from entities that meet or exceed EPA certification standards as described in 40 CFR 33.202.

² Subcontractor is defined as a company, firm, joint venture, or individual who enters into an agreement with a contractor to provide services pursuant to an award of financial assistance.

I certify under penalty of perjury that the forgoing statements are true and correct. Signing this form does not signify a commitment to utilize the subcontractors above. I am aware that in the event of a replacement of a subcontractor, I will adhere to the replacement requirements set forth in 40 CFR Part 33 Section 33.302 (c).

Prime Contractor Signature	Print Name
Title	Date
Huo	Duto

The public reporting and record keeping burden for this collection of information is estimated to average three (3) hours per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Do not send the completed form to this address.

FORM 4500-4 (DBE Subcontractor Utilization Form)

BID FORM ADDENDUM NO. 1

T7, U4, U6 WELLS PFAS TREATMENT, SAUGUS 1 AND 2 WELLS VOC TREATMENT AND NEW DISINFECTION FACILITY PROJECT NO. 1000420

SANTA CLARITA VALLEY WATER AGENCY **NOTICE TO PLANHOLDERS**

ADDENDUM NO. 2

Owner:	Santa Clarita Valley Water Agency 26515 Summit Circle Santa Clarita, California 91350
Project:	T7, U4, U6 Wells PFAS Treatment, Saugus 1 and 2 Wells VOC Treatment and Disinfection Facility Project
То:	All Planholders
From:	Hazen and Sawyer
Bid Date:	March 8, 2024 at 5:00 PM (Pacific Time)
Wells PFAS Treatme dated December 202 form a part of the	en to prospective bidders that the Plans and Specifications for T7, U4, U6 nt, Saugus 1 and 2 Wells VOC Treatment and Disinfection Facility Project 3, have been modified as hereinafter set forth. This Addendum No. 2 shall Contract Documents and the modifications indicated herein shall take original Contract Documents, as applicable. All other provisions shall
Bidder shall acknowle shall be attached to th	edge receipt of this Addendum No. 2 in the space below. This page AD 2-1 he Bid.
By: Hazen and Sa	wyer PROFESSION
Date: 2/5/202	No. C81831
ACKNOWLEDGEME	NT TO BE ATTACHED TO SEALED BID.
I have received Adde	ndum No. 2 (Pages AD 2-1 through AD 2-18)
Contractor:	
Signature:	
Printed Name:	
Title:	
Date:	
TALL Walls DEAS Treatme	ant Saugus 1

T&U Wells PFAS Treatment, Saugus 1 and 2 VOC Treatment and Disinfection Facility **GENERAL**: The following changes, additions, or deletions shall be made to the following documents as noted and shall take precedence over the original Contract Documents. All other provisions remain the same.

Addendum 2, ITEM 1.

SPECIFICATION DIVISION 01, SECTION 01270 – MEASUREMENT AND PAYMENT, PART 1 – GENERAL, FF. CARTRIDGE FILTER SYSTEM (BID ITEM NO. 32), Page 11

DELETE in its entirety and REPLACE with the following:

"The Cartridge Filter System bid item shall include installation of the Cartridge Filters and all associated piping, valves, concrete pad, and instrumentation, as specified in the Contract Drawings and Contract Documents, complete and operable, and no additional compensation will be allowed.

Payment for this bid item will be made at the lump sum price bid therefor in the Bid Schedule, complete and in place in accordance with the Contract Documents or as directed by the Owner."

Addendum 2, ITEM 2.

<u>SPECIFICATION DIVISION 01, SECTION 01270 – MEASUREMENT AND PAYMENT, PART 1 – GENERAL, GG. ION EXCHANGE (IX) SYSTEM (BID ITEM NO. 33), Page 12</u>

DELETE in its entirety and REPLACE with the following:

"The Ion Exchange (IX) System bid item shall include furnishing and installation of the IX System and all associated equipment including piping, valves, concrete pad, and instrumentation for IX vessels, pipe testing and disinfection, and all other incidental items as specified in the Contract Drawings and Contract Documents, complete and operable, and no additional compensation will be allowed therefor. Additionally, this bid Item shall include IX Resin loading coordination between the IX Resin vendor and the Agency, as well as maintenance and flushing of the IX Resin during startup and until system compliance, in accordance with the Contract Documents or as directed by the Owner, full and complete, and includes the cost for labor, tools, materials, equipment and incidentals necessary for the completion of the Work.

Payment for this bid item will be made at the lump sum price bid therefor in the Bid Schedule, complete and in place in accordance with the Contract Documents or as directed by the Owner."

Addendum 2, ITEM 3.

SPECIFICATION DIVISION 01, SECTION 01270 – MEASUREMENT AND PAYMENT, PART 1 – GENERAL, HH. GRANULAR ACTIVATED CARBON (GAC) SYSTEM (BID ITEM NO. 34), Page 12-13

DELETE in its entirety and REPLACE with the following:

"The Granular Activated Carbon (GAC) System bid item shall include installation of the GAC System and all associated equipment including demolition (clearing and grubbing, removal of structures, pavements, curbs, piping, storm drain piping, trees, protection of surrounding improvements), concrete pad, gravel, piping, valves, electrical and instrumentation for GAC vessels, pipe testing and disinfection, maintenance of the GAC media during startup and until system compliance and all other incidental items as specified in the Contract Drawings and Contract Documents, complete and operable, and no additional compensation will be allowed therefor.

Additionally, this bid item shall include the following onsite pipelines needed for the GAC system:

10-inch GAC backwash supply pipeline to the 10-inch Q2 treated water pipeline

12-inch GAC influent pipeline connection to the Saugus Wells IX pipeline

12-inch GAC effluent pipeline to the 12-inch treated water pipeline connection

10-inch GAC backwash waste pipeline to air gap

6-inch GAC equipment pad storm drain pipeline(s) to catch basin connection

Item also includes the following:

Protection of existing utilities, improvements and tress, temporary fencing, clearing and grubbing, dust and erosion control, excavation, dewatering, disposal of excess material, bedding, backfill, CLSM backfill where indicated, removal of paving, protection and restoration of traffic loops, compaction, surface restoration for non-paved areas, sidewalks, gutters and medians restoration, removal and replacement of existing improvements as necessary for installation and all other related work required to install the pipe and appurtenances, all in accordance with the requirements of Contract Documents.

Payment for this bid item will be made at the lump sum price bid therefor in the Bid Schedule, complete and in place in accordance with the Contract Documents or as directed by the Owner."

Addendum 2, ITEM 4.

<u>SPECIFICATION DIVISION 01, SECTION 01300 – SUBMITTALS, PART 1 – GENERAL, 1.01.I.1, Page 9</u>

DELETE in its entirety and REPLACE with the following:

- "1. The Contractor shall complete and submit the List of Materials and Equipment, provided herein Specification 01300, to the Owner/Engineer for review/approval within 6-weeks after issuance of the Notice to Proceed. A partially filled out list is provided on the following pages. The Contractor shall be responsible for completing the list to include all construction materials and manufactured products used in the project.
- 2. The Contractor shall submit certification or proof of BABA and AIS compliance for the materials and equipment identified as BABA and AIS compliant in the approved List of Materials and Equipment within 8-weeks after issuance of the Notice to Proceed.
- 3. The Contractor shall be responsible for filing and obtaining all BABA and AIS waivers for any non-compliant materials and equipment identified in the approved List of Materials and Equipment. The Contractor shall be responsible for all fees and cost associated with obtaining the BABA and AIS waivers. The Owner shall not be responsible for any additional cost to the Contractor due to but not limited to delays caused by filing and obtaining any BABA or AIS waiver. The Contractor shall take into account a 4-month waiting period for BABA and AIS waiver processing. The Contractor will not receive any additional compensation by the Owner for this waiting period.
- 4. The Contractor shall include the tasks of completing the List of Materials and Equipment, providing certification or proof of BABA and AIS compliance, and filing and obtaining all BABA and AIS waivers in the Progress Schedule required herein Specification 01300."

Addendum 2, ITEM 5. <u>SPECIFICATION DIVISION 01, SECTION 01300 – SUBMITTALS,</u> PART 1 – GENERAL, 1.01, Page 9

ADD the following paragraph after paragraph "I":

- "J. Long Lead Item List
- The Contractor shall submit a list of materials and equipment considered long lead time within 6-weeks after issuance of the Notice to Proceed."

Addendum 2, ITEM 6. <u>SPECIFICATION DIVISION 05, SECTION 05500 – METAL FABRICATIONS, PART 2 – PRODUCTS, 2.04, Page 2</u>

DELETE in its entirety and REPLACE with the following:

"A. Guard post shall be furnished and constructed in accordance with the Owner's standard design, WP-106B in the SCV Water 2022 Construction Manual."

Addendum 2, ITEM 7. SPECIFICATION DIVISION 07, SECTION 07190 – VAPOR BARRIER, PART 1 – THE REQUIREMENT, 1.01.B, Page 1

DELETE in its entirety and REPLACE with the following:

"Principal items of work include:

1. Vapor barrier below building slab."

Addendum 2, ITEM 8.

<u>SPECIFICATION DIVISION 09, SECTION 09900 – PAINTING,</u> PART 3 – EXECUTION, TABLE 9-1, Page 13

DELETE table in its entirety and REPLACE with the following:

SURFACE	APPLICATION	PAINTING SYSTEM & NO. OF COATS	PRODUCT REFERENCE (TABLE 9.2)	TOTAL MIN. DRY FILM THICKNESS (MILS)
Concrete secondary containment	Secondary Containment all locations	Filler 2 coats high solids epoxy	Manufacturer 119	1/8" 8-10/coat
Metals Interior and exterior nonsubmerged (gloss)	All blowers, pumps, motors and mechanical equipment, piping	1 coat epoxy polyamide primer	104	4-6
	(exterior), etc.	1 coat epoxy polyamide 1 coat aliphatic polyurethane	102 115	4-6 3-5
Submerged water	All metal piping (interior or exterior), and mechanical equipment, etc.	2 coats NSF approved epoxy polyamide	105	4-6/coat
Submerged Wastewater		2 coats high solids epoxy	119	8-10/coat
Steel doors, windows and door frames, steel stairs, monorails, misc. metals (steel)	All buildings	1 coat epoxy polyamide 1 coat aliphatic polyurethane	102 115	5-8
Aluminum surfaces in contact with concrete	All locations	2 coats coal tar	107	26
Structural Steel	All buildings	2 coats epoxy polyamide	102	4-6/coat
Exposed PVC Piping		1 coat epoxy polyamide 1 coat aliphatic polyurethane	102 115	5-8 3-4

Addendum 2, ITEM 9. <u>SPECIFICATION DIVISION 13, SECTION 13150 – ON-SITE</u>

SODIUM HYPOCHLORITE GENERATION AND FEED SYSTEM,

PART 2 - PRODUCTS, 2.03.C.1, Page 9 & 10

REVISE paragraph letters to read "a" through "m".

Addendum 2, ITEM 10. SPECIFICATION DIVISION 13, SECTION 13150 – ON-SITE

SODIUM HYPOCHLORITE GENERATION AND FEED SYSTEM,

PART 2 - PRODUCTS, 2.03.C.1.m, Page 10

ADD the new following item to the list:

"iii Solids level sensor shall be equipped with protections to prevent early failure due to contact with salt and brine." Addendum 2, ITEM 11. <u>SPECIFICATION DIVISION 13, SECTION 13150 – ON-SITE</u>

SODIUM HYPOCHLORITE GENERATION AND FEED SYSTEM,

PART 2 - PRODUCTS, 2.05.A.1, Page 11

DELETE in its entirety and REPLACE with the following:

"1. An air cooled switch mode (IGBT) type transformer/rectifier shall be furnished to provide DC power to each Hypochlorite Generator Rack."

Addendum 2, ITEM 12.

SPECIFICATION DIVISION 13, SECTION 13150 – ON-SITE SODIUM HYPOCHLORITE GENERATION AND FEED SYSTEM, PART 2 – PRODUCTS, 2.05.A.3, Page 12

DELETE in its entirety and REPLACE with the following:

"Output from transformer/rectifier shall be 1500A @ 37VDC for ClorTec system. Power output from the transformer/rectifier shall be DC having less than 5% RMS ripple when under nominal range of operating conditions."

Addendum 2, ITEM 13.

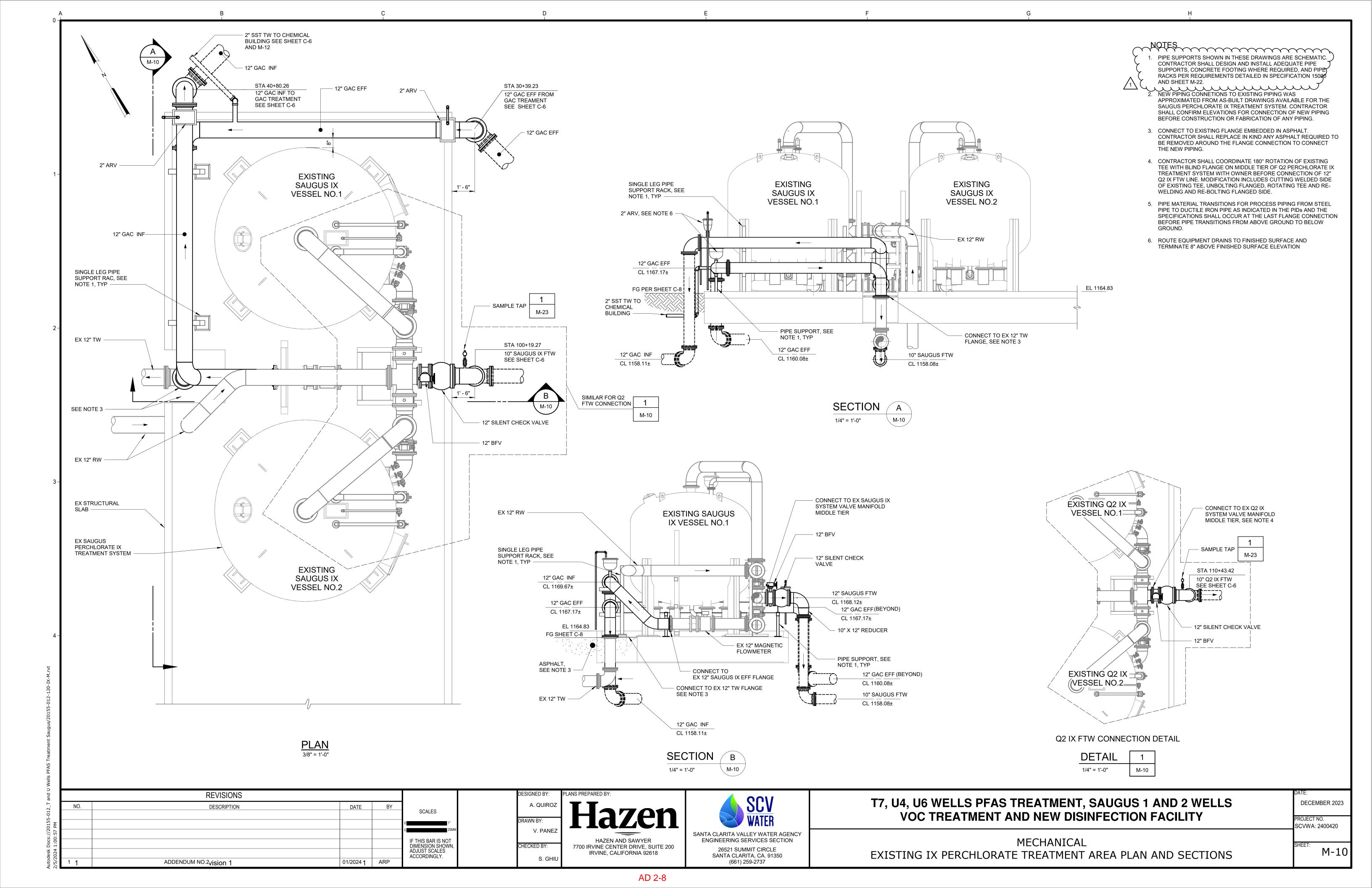
SPECIFICATION DIVISION 13, SECTION 13150 – ON-SITE SODIUM HYPOCHLORITE GENERATION AND FEED SYSTEM, PART 2 – PRODUCTS, 2.05.A.7, Page 12

DELETE in its entirety and REPLACE with the following:

"The transformer/rectifier shall be air cooled. Maximum room temperature shall be 120°F. Cooling air shall be free from corrosive fumes."

Addendum 2, ITEM 14. DRAWINGS

REPLACE Drawings M-10, S-1, S-4, S-5, S-6, S-9, S-11, A-1, A-5, A-6, and A-7 with the REVISED drawings attached.



- G-1 THESE NOTES ARE GENERAL AND SUPPLEMENT THE SPECIFICATIONS. THESE NOTES APPLY TO THE ENTIRE PROJECT UNLESS MODIFIED OR NOTED OTHERWISE IN THE CONTRACT DOCUMENTS.
- G-2 STANDARD DETAILS SHALL BE USED WHEN REFERRED TO OR WHEN NO MORE RESTRICTIVE OR DIFFERENT DETAILS ARE SHOWN ON THE DRAWINGS.
- DESIGN IS IN ACCORDANCE WITH AND CONSTRUCTION SHALL COMPLY WITH THE PROVISIONS OF THE 2022 CALIFORNIA BUILDING CODE. THE DESIGN LOADS AND OTHER DESIGN VALUES GIVEN IN NOTES G-4 THROUGH G-8 WERE USED FOR DESIGN OF STRUCTURES UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- G-4 LIVE LOADS:

STRUCTURE	ROOF	TOP / FIRST FLOOR	BOTTOM / GROUND FLOOR
CHEMICAL STORAGE AND FEED BUILDING	20 PSF	N/A	250 PSF
IX VESSEL AREA	N/A	N/A	150 PSF + CONCENTRATIONS
GAC VESSEL AREA	N/A	N/A	150 PSF + CONCENTRATIONS

-ALL STAIRWAYS, LANDINGS AND PLATFORMS ARE DESIGNED FOR A LIVE LOAD = 100 PSF UNLESS NOTED OTHERWISE

G-5 SNOW LOAD:

GROUND SNOW LOAD (Pg) = 0 PSF

G-6 WIND DESIGN CRITERIA:

BASIC DESIGN WIND SPEED (V) = 101 MPH ALLOWABLE STRESS DESIGN WIND SPEED (Vasd) = 78 MPH RISK CATEGORY = III WIND EXPOSURE = C

PARAMETER	PRESSURE COEFFICIENT GCpi	WIND DESIGN PRESSURE	COMPONENTS AND CLADDING	LATERAL LOAD RESISTING SYSTEM	
CHEMICAL STORAGE AND FEED BUILDING	0.18	20 PSF	38 PSF	SPECIAL MASONRY SHEAR WALL	
IX VESSEL AREA	BY MFR	BY MFR	BY MFR	BY MFR	
GAC VESSEL AREA CARTRIDGE FILTER AREA	BY MFR BY MFR	BY MFR BY MFR	BY MER BY MFR	BY MER BY MFR	

G-7 SEISMIC LOAD:

RISK CATEGORY = III SEISMIC IMPORTANCE FACTOR (le) = 1.25

SITE CLASS = D

MAPPED SPECTRAL RESPONSE ACCELERATIONS (Ss/S1) = 2.15/0.78 SPECTRAL RESPONSE ACCELERATIONS (SMS/SM1) = 2.15/1.33

SPECTRAL RESPONSE COEFFICIENTS (SDS/SD1) = 1.44/0.89 SEISMIC DESIGN CATEGORY = F

SEISINIC DESIGN CATEGORT - E						
PARAMETER STRUCTURE	BASIC STRUCTURAL SYSTEM	DESIGN BASE SHEAR	SEISMIC RESPONSE COEFFICIENT Cs	RESPONSE MODIFICATION COEFFICIENT R	ANALYSIS PROCEDURE	
CHEMICAL STORAGE AND FEED BUILDING	SPECIAL MASONRY SHEAR WALL	200 K	0.36	5	EQUIVALENT LATERAL FORCE	
IX VESSEL AREA	BY MFR	BY MFR	BY MFR	BY MFR	EQUIVALENT LATERAL FORCE	
GAC VESSEL AREA	BY MFR	BY MFR	BY MFR	BY MFR	EQUIVALENT	

- RAIN LOAD: RAIN INTENSITY (i) = 1.52 IN/HR BASED ON 60 MINUTE PRECIPITATION INTENSITY
- ALL DIMENSIONS INDICATED FOR EXISTING STRUCTURES SHALL BE VERIFIED BY FIELD MEASUREMENT. ALL DIMENSIONS THAT ARE CONTROLLED BY OR RELATED TO EQUIPMENT SHALL BE VERIFIED BY THE CONTRACTOR WITH THE MANUFACTURER SHOP DRAWINGS PRIOR TO CONSTRUCTION.
- G-10 THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL EXISTING INFORMATION IN THE FIELD AS REQUIRED FOR NEW WORK.
- IF A CONFLICT IS FOUND BETWEEN DIFFERENT PORTIONS OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY. CONTINUED CONSTRUCTION OF THE AREA IN CONFLICT SHALL BE AT THE CONTRACTOR'S OWN RISK UNTIL THE CONFLICT IS RESOLVED.
- G-12 EQUIPMENT ANCHOR SIZES, TYPES, EMBEDMENT AND PATTERNS SHALL BE VERIFIED WITH THE MANUFACTURER. ALL ANCHOR PATTERNS SHALL BE TEMPLATED TO ENSURE ACCURACY OF PLACEMENT.
- G-13 STRUCTURAL DRAWINGS SHALL BE USED IN COORDINATION WITH THE DRAWINGS OF ALL OTHER DISCIPLINES AND MANUFACTURER'S SHOP DRAWINGS.
- G-14 STRUCTURES HAVE BEEN DESIGNED FOR OPERATIONAL LOADS ON THE COMPLETED STRUCTURE. DURING CONSTRUCTION, THE STRUCTURES SHALL BE PROTECTED BY BRACING AND TEMPORARY SUPPORTS WHEREVER EXCESSIVE CONSTRUCTION LOADS MAY OCCUR. OVERSTRESSING OF ANY STRUCTURAL ELEMENT IS PROHIBITED.
- G-15 IF CONTRACTOR DESIRES TO TEMPORARILY PLACE OR MOVE LOADS ON OR ADJACENT TO EXISTING STRUCTURES OR UTILITIES DURING CONSTRUCTION PROCESS, CONTRACTOR IS EXCLUSIVELY RESPONSIBLE FOR MAINTAINING STRUCTURAL INTEGRITY AND AVOIDING OVERSTRESSING AND DAMAGING EXISTING STRUCTURES AND UTILITIES. CONTRACTOR SHALL SUBMIT STRUCTURAL CALCULATIONS AND DRAWINGS VERIFYING THAT PROPOSED CONSTRUCTION (INCLUDING APPLICATION OF TEMPORARY CONSTRUCTION LOADS) WILL NOT OVERSTRESS OR DAMAGE EXISTING STRUCTURES AND UTILITIES. DRAWINGS AND CALCULATIONS SHALL BE SEALED BY A PROFESSIONAL ENGINEER CURRENTLY REGISTERED IN THE STATE OF CALIFORNIA.

GENERAL STRUCTURAL NOTES, CONTINUED

G-16 NO BACKFILL SHALL BE PLACED AGAINST ANY SUBSTRUCTURE WALLS UNLESS ALL ADJACENT SUPPORTING ELEMENTS HAVE ACHIEVED DESIGN STRENGTH, OR WALLS HAVE BEEN PROPERLY BRACED, AND IN ANY CASE NOT SOONER THAN 28 DAYS AFTER THE PLACING OF CONCRETE UNLESS APPROVED BY THE ENGINEER. SUPPORTING ELEMENTS SHALL INCLUDE ADJACENT WALLS, SLABS, BEAMS AND COLUMNS.

STRUCTURAL METALS

- M-1 DETAIL, FABRICATE, AND ERECT STRUCTURAL STEEL IN ACCORDANCE WITH ANSI/AISC 360 SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS, LATEST EDITION.
- M-2 STEEL MATERIAL: A) STRUCTURAL HSS:
 - ASTM A500, GRADE C (46/50 KSI) OR A1085 GRADE A (50 KSI) B) STRUCTURAL PIPE: ASTM A53, GRADE B (35 KSI) ASTM A36 UNO (36 KSI) C) PLATES, BARS AND ANGLES: D) STRUCTURAL W, C, & MC SHAPES: ASTM A992 (50 KSI)
 - ASTM A36 (36 KSI) E) STRUCTURAL M & S SHAPES: F) STRUCTURAL HP ASTM A572 GRADE 50 (50 KSI) G) ANCHOR RODS ASTM F1554 GRADE 55 (55 KSI)
- PROVIDE MINIMUM 3/4" DIAMETER ASTM F3125 GRADE A325 TYPE 1 OR GRADE F1852 TYPE 1 HIGH STRENGTH BOLTS WITH SNUG TIGHTENED TYPE N CONNECTIONS FOR STRUCTURAL STEEL UNLESS NOTED OTHERWISE. HOLES FOR BOLTS SHALL BE STANDARD SIZE UNLESS NOTED OTHERWISE.
- PROVIDE TYPICAL STEEL BEAM CONNECTIONS FOR A CAPACITY OF NOT LESS THAN ONE HALF OF THE TOTAL UNIFORM LOAD
- M-5 DO NOT PAINT STEEL SURFACES WHICH ARE TO BE WELDED OR ARE TO BE ENCASED IN CONCRETE.
- ALL STAINLESS STEEL FABRICATIONS EXPOSED TO UNDERWATER SERVICE SHALL BE TYPE 316. ALL OTHER STAINLESS STEEL FABRICATIONS SHALL BE TYPE 304 UNLESS NOTED OTHERWISE.
- M-7 ALUMINUM SHALL BE ALLOY 6061-T6 UNLESS NOTED OTHERWISE
- ALL BOLTS, ANCHORS, AND CONCRETE ANCHORS CONNECTING ALUMINUM SHALL BE STAINLESS STEEL TYPE 316 FOR

CAPACITY TABULATED IN THE AISC TABLES FOR ALLOWABLE LOADS OF BEAMS UNLESS NOTED OTHERWISE.

M-9 ALUMINUM SHALL BE ISOLATED FROM CONTACT WITH CONCRETE AND DISSIMILAR METALS.

UNDERWATER APPLICATIONS AND TYPE 304 FOR ALL OTHER APPLICATIONS.

- M-10 ALL GROOVE AND BUTT WELDS SHALL BE FULL PENETRATION.
- M-11 FILLET WELD SIZES SHALL NOT BE LESS THAN THE MINIMUM SIZE REQUIRED BY AISC CODE FOR PLATE SIZES TO BE CONNECTED AND SHALL BE APPLIED TO THE ENTIRE JOINT CONTACT LENGTH, AND NOT LESS THAN 3/16".
- M-12 ALL WELDS SHALL BE PERFORMED IN THE SHOP UNLESS NOTED BY A FIELD WELD SYMBOL OR APPROVED BY ENGINEER.
- M-13 BOTTOM SURFACES OF BASE PLATES SHALL BE GROUTED TO ENSURE FULL BEARING CONTACT WITH CONCRETE SLAB.
- M-14 WHENEVER ONE MEMBER IS FASTENED TO ANOTHER WITH FASTENINGS (BOLTS, WELDS, ETC.) SET AT A UNIFORM SPACING, A MINIMUM OF TWO FASTENINGS PER PIECE SHALL BE CONNECTED AND THE FIRST AND LAST FASTENINGS SHALL BE LOCATED NOT TO EXCEED 0.25 OF FASTENER SPACING FROM EACH END.
- M-15 GRATING PANELS SHALL BE CONFINED TO PREVENT MOVEMENT PER STANDARD DETAIL S-05-0706. USE OF GRATING CLIP ATTACHMENT IS NOT ACCEPTABLE TO PREVENT GRATING MOVEMENT

FOUNDATIONS

- F-1 CONCRETE (CAST-IN-PLACE) NOTES APPLY TO FOUNDATIONS
- F-2 ALLOWABLE SOIL BEARING PRESSURE

PARAMETER STRUCTURE	ALLOWABLE SOIL BEARING PRESSURE
CHEMICAL STORAGE AND FEED BUILDING	2500 PSF
IX VESSEL AREA	2500 PSF
GAC VESSEL AREA	2500 PSF

- SOIL PROPERTIES, ALLOWABLE DESIGN VALUES, GRADING AND COMPACTION REQUIREMENTS ARE BASED ON THE GEOTECHNICAL INVESTIGATION REPORT BY CONVERSE CONSULTANTS (PROJECT NO. 21-31-177-01), DATED AUGUST 3, 2022.
- MINIMUM DEPTH FROM ADJACENT FINISHED GRADE TO BOTTOM OF FOUNDATION = 24 INCHES.
- STRUCTURES ARE DESIGNED FOR THE 100-YEAR FLOOD ELEVATION OF 1145.5
- FOUNDATIONS AND STRUCTURES BELOW GRADE SHALL BE DESIGNED FOR THE FOLLOWING **EQUIVALENT LATERAL EARTH PRESSURES:**

UNSATURATED ACTIVE = 35 PSF/FT UNSATURATED AT-REST = 55 PSF/FT PASSIVE EARTH PRESSURE = 235 PSF/FT

SOIL COEFFICIENT OF FRICTION = 0.30

DO NOT INCLUDE SURCHARGE PRESSURES.

LATERAL PRESSURES ARE BASED ON PSF PER FOOT OF WALL HEIGHT. LATERAL PRESSURES

CONCRETE (CAST-IN-PLACE)

- C-1 DESIGN OF CONCRETE ELEMENTS INCLUDING WALLS. FORMED SLABS, BEAMS, AND COLUMNS IS IN ACCORDANCE WITH ACI 318 (CODE REQUIREMENTS FOR STRUCTURAL CONCRETE) AND 350 (CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES).
- C-2 CONCRETE STRENGTH CLASSES (28-DAY COMPRESSIVE STRENGTH):
 - A) CLASS A1 CONCRETE (4,500 PSI): NORMAL WEIGHT STRUCTURAL CONCRETE TO BE USED IN ALL STRUCTURES QUALIFYING AS ENVIRONMENTAL CONCRETE STRUCTURES THAT ARE DESIGNED IN ACCORDANCE WITH ACI 350 INCLUDING PUMP STATIONS, TANKS, BASINS, PROCESS STRUCTURES, AND ANY STRUCTURES CONTAINING FLUID OR PROCESS CHEMICALS OR OTHER MATERIALS USED IN TREATMENT PROCESS.
 - B) CLASS A2 CONCRETE (4,000 PSI): NORMAL WEIGHT STRUCTURAL CONCRETE IN ALL STRUCTURES OTHER THAN STRUCTURES QUALIFYING AS ENVIRONMENTAL CONCRETE STRUCTURES AS DESCRIBED ABOVE, AND FOR ALL SIDEWALKS, CURB AND GUTTERS, AND PAVEMENT.
 - C) CLASS A3 CONCRETE (4,000 PSI): NORMAL WEIGHT STRUCTURAL CONCRETE TO BE USED FOR INTERIOR SLABS WHERE A TYPE "D" STEEL TROWELED FINISH OR TYPE "G" HARDENED FINISH IS REQUIRED. CLASS A3 CONCRETE SHALL NOT CONTAIN ENTRAINED AIR.
 - D) CLASS A4 CONCRETE (4,000 PSI): NORMAL WEIGHT STRUCTURAL CONCRETE TO BE USED WHERE SPECIFICALLY CALLED FOR ON CONTRACT DRAWINGS OR AREAS WHERE SPECIFICALLY REQUESTED BY CONTRACTOR AND APPROVED BY ENGINEER. CLASS A4 CONCRETE IS IDENTICAL TO CLASS A2 CONCRETE EXCEPT THAT COARSE AGGREGATE SHALL BE SIZE #8 IN ACCORDANCE WITH ASTM C33.
- E) CLASS B CONCRETE (3,000 PSI): NORMAL WEIGHT STRUCTURAL CONCRETE USED FOR DUCT BANK ENCASEMENTS, CATCH BASINS, FENCE AND GUARD POST EMBEDMENT, CONCRETE FILL, AND OTHER AREAS WHERE SPECIFICALLY NOTED ON CONTRACT DRAWINGS.
- C-3 ALL BAR REINFORCING SHALL CONFORM TO ASTM A615, GRADE 60 UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A1064.
- C-4 CONCRETE COVER FOR REINFORCING (UNLESS NOTED OTHERWISE ON THE DRAWINGS):

F) FOR SURFACES EXPOSED TO FLUID IN BEAMS, COLUMNS AND WALLS:

A)	CONCRETE DEPOSITED DIRECTLY AGAINST SOIL:	3"
	CONCRETE EXPOSED TO WEATHER (#5 OR SMALLER):	1 1/2"
,	CONCRETE EXPOSED TO WEATHER (#6 OR LARGER):	2"
C)	SLABS:	1 1/2"
	AT SURFACES CONTACTING FLUID:	2"
D)	BEAMS AND COLUMNS (TO MAIN REINFORCEMENT):	2"
	BEAMS AND COLUMNS (TO COLUMN TIES OR STIRRUPS):	1 1/2"
E)	WALLS 12" OR MORE:	2"
	WALLS LESS THAN 12" (#5 OR SMALLER):	1 1/2"
	WALLS LESS THAN 12" (#6 OR LARGER):	2"

C-5 SPLICES SHALL BE CLASS "B" CONFORMING TO THE PROVISIONS OF ACI 318 UNLESS NOTED OTHERWISE. SPLICE LENGTH FOR TWO DIFFERENT SIZED BARS TO BE LAP SPLICED TOGETHER SHALL BE THE LENGTH OF THE LARGER BAR UNLESS NOTED

ADD 1/2" TO ABOVE VALUES

- C-6 CONSTRUCTION JOINTS SHALL BE LOCATED AS SHOWN ON THE DRAWINGS. CONSTRUCTION JOINTS NOT SHOWN SHALL BE SUBMITTED BY THE CONTRACTOR FOR THE APPROVAL OF THE ENGINEER PRIOR TO SUBMITTING REBAR SHOP DRAWINGS.
- C-7 ALL JOINTS WHICH ARE IN MEMBERS IN CONTACT WITH LIQUID OR BELOW GRADE SHALL HAVE A WATERSTOP. CONSTRUCTION JOINTS SHALL HAVE A 6" PVC RIBBED WATERSTOP. EXPANSION JOINTS SHALL HAVE A 9" PVC CENTER BULB RIBBED WATERSTOP. IN VERTICAL JOINTS, WATERSTOPS SHALL TERMINATE NO LESS THAN 18" ABOVE THE MAXIMUM WATER SURFACE OR 18" ABOVE GRADE, WHICHEVER IS HIGHER.
- C-8 ALL EXPOSED CORNERS SHALL HAVE A 3/4" CHAMFER.
- C-9 EQUIPMENT SUPPORTS, ANCHORAGES, OPENINGS, RECESSES AND REVEALS NOT SHOWN ON THE STRUCTURAL DRAWINGS BUT REQUIRED BY OTHER CONTRACT DOCUMENTS, SHALL BE INSTALLED PRIOR TO PLACING CONCRETE.
- C-10 REINFORCING BARS AND ACCESSORIES SHALL NOT BE IN CONTACT WITH ANY METAL PIPE, PIPE FLANGE, METAL CONDUIT, OR OTHER METAL PARTS EMBEDDED IN CONCRETE. A MINIMUM CLEARANCE OF 2" SHALL BE PROVIDED.
- C-11 CONDUITS AND OTHER SIMILAR ITEMS EMBEDDED IN OR PENETRATING THROUGH CONCRETE SHALL BE SPACED ON CENTER NOT LESS THAN 3 TIMES THEIR OUTSIDE DIMENSION, BUT NOT LESS THAN 2 1/2" CLEAR. WHEN SUCH ITEMS ARE EMBEDDED IN WALLS OR SLABS, THEY SHALL NOT OCCUPY MORE THAN 1/3 OF THE MEMBER THICKNESS.
- C-12 AT ALL TYPICAL CURBS, EQUIPMENT PADS, AND PIPE SUPPORT PIERS, REINFORCING DOWELS SHOWN MAY BE REPLACED WITH ADHESIVE DOWELS AS SPECIFIED. DOWELS LOCATED CLOSER THAN 3" FROM ANY EDGE OF CONCRETE SHALL NOT BE REPLACED WITH DRILLED DOWELS.
- C-13 ADJUST THE LOCATION OF DOWELS OR ANCHORS PLACED INTO HARDENED CONCRETE AS NEEDED TO AVOID DRILLING THROUGH ANY REINFORCING BARS. IF THE LOCATION NEEDS TO BE MODIFIED, CONTACT THE ENGINEER. CONTRACTOR SHALL USE NON-DESTRUCTIVE MEANS TO FIELD LOCATE REINFORCEMENT PRIOR TO DRILLING HOLES FOR DOWELS OR ANCHORS.
- C-14 CLEAR DISTANCE FROM ANCHOR RODS TO ANY CONCRETE EDGE SHALL BE 4" MINIMUM UNLESS NOTED OTHERWISE.

REVISIONS DESCRIPTION DATE SCALES IF THIS BAR IS NO DIMENSION SHOWN ADJUST SCALES ACCORDINGLY. 01/2024 | SPD ADDENDUM NO.2

S. DUPUIS RAWN BY: **FREDERICK**

HECKED BY:

W. DRESSLER

HAZEN AND SAWYER 7700 IRVINE CENTER DRIVE, SUITE 200 IRVINE, CALIFORNIA 92618



(661) 259-2737

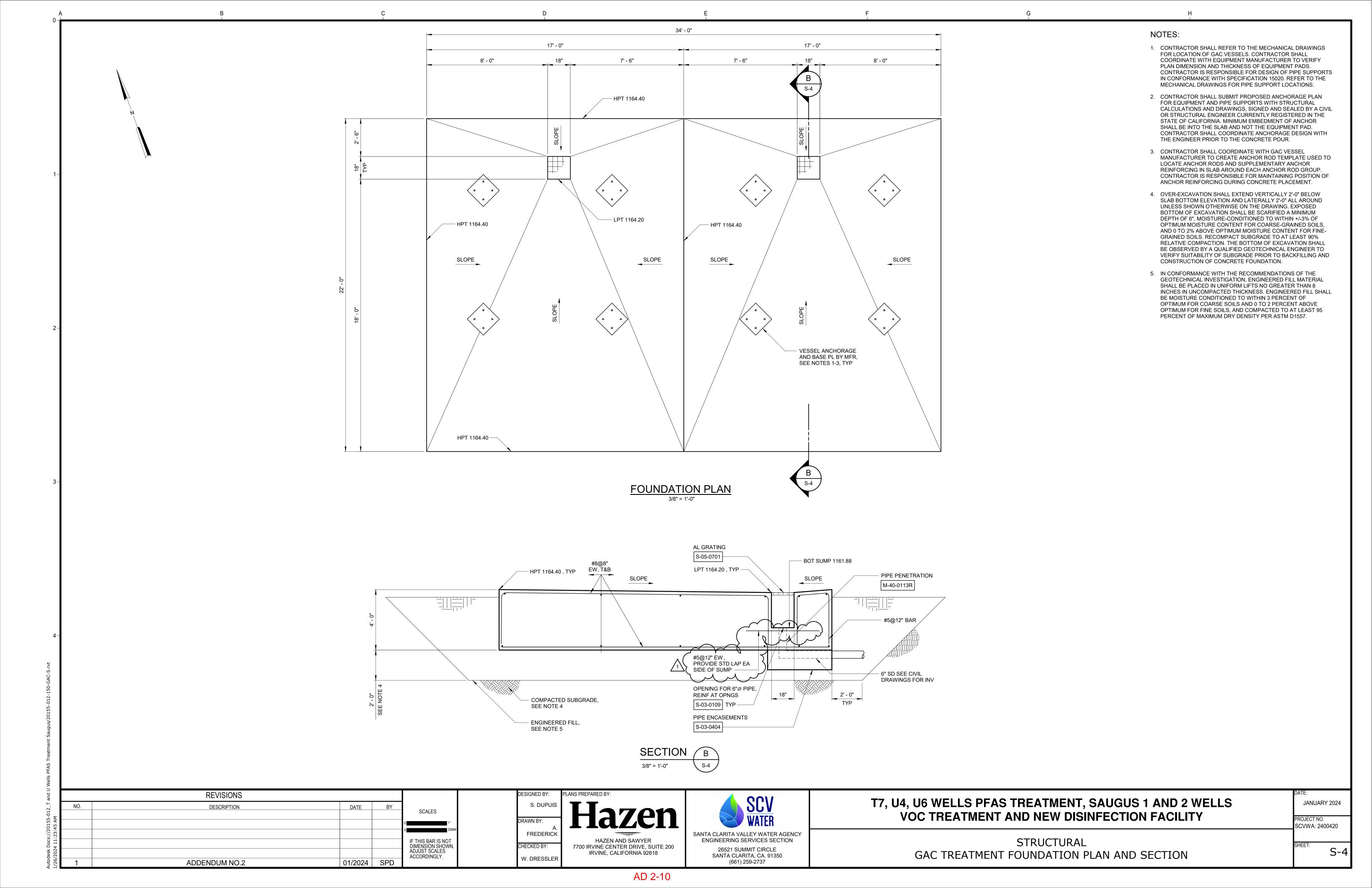
T7, U4, U6 WELLS PFAS TREATMENT, SAUGUS 1 AND 2 WELLS VOC TREATMENT AND NEW DISINFECTION FACILITY

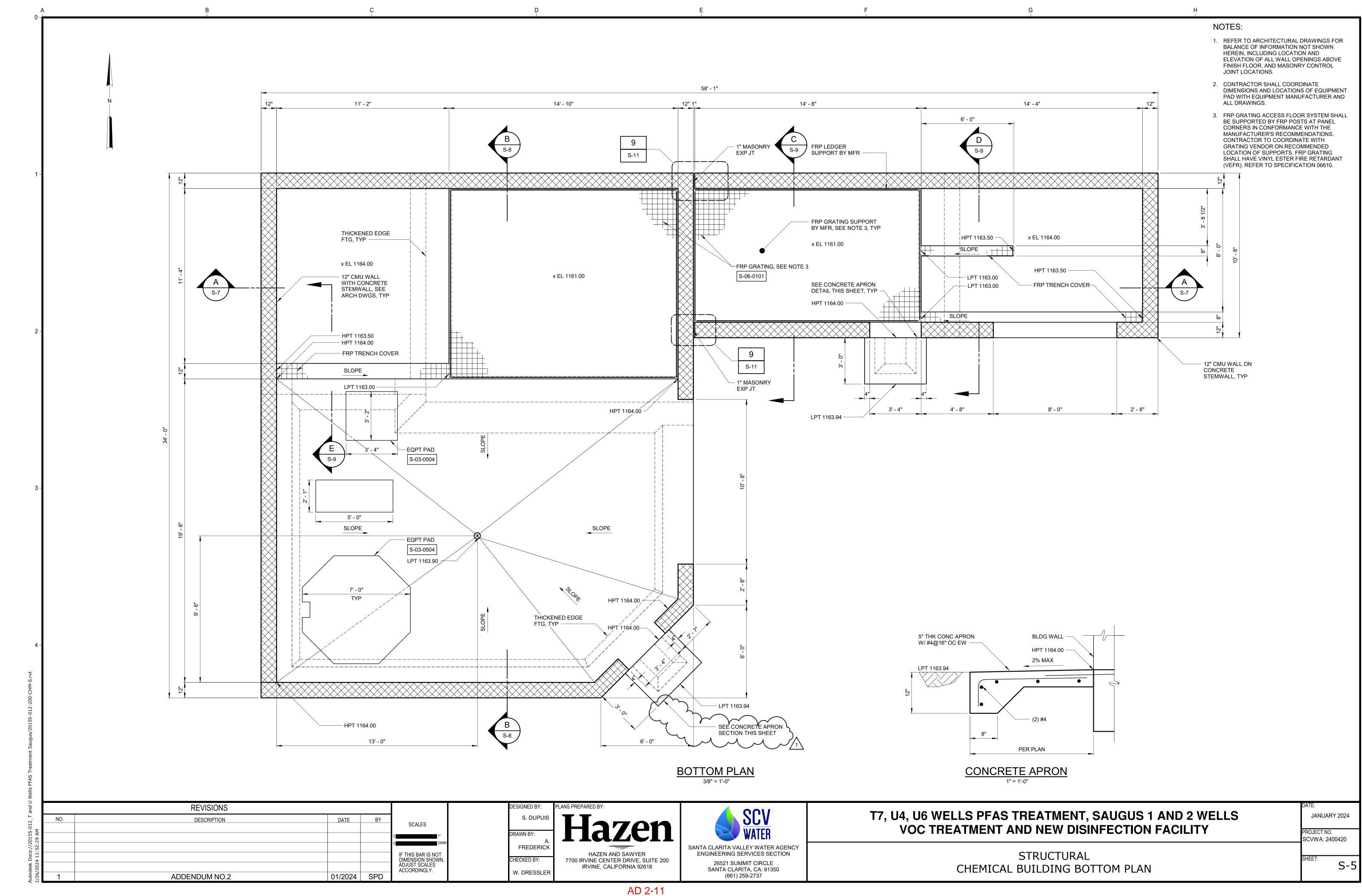
> STRUCTURAL **GENERAL STRUCTURAL NOTES 1**

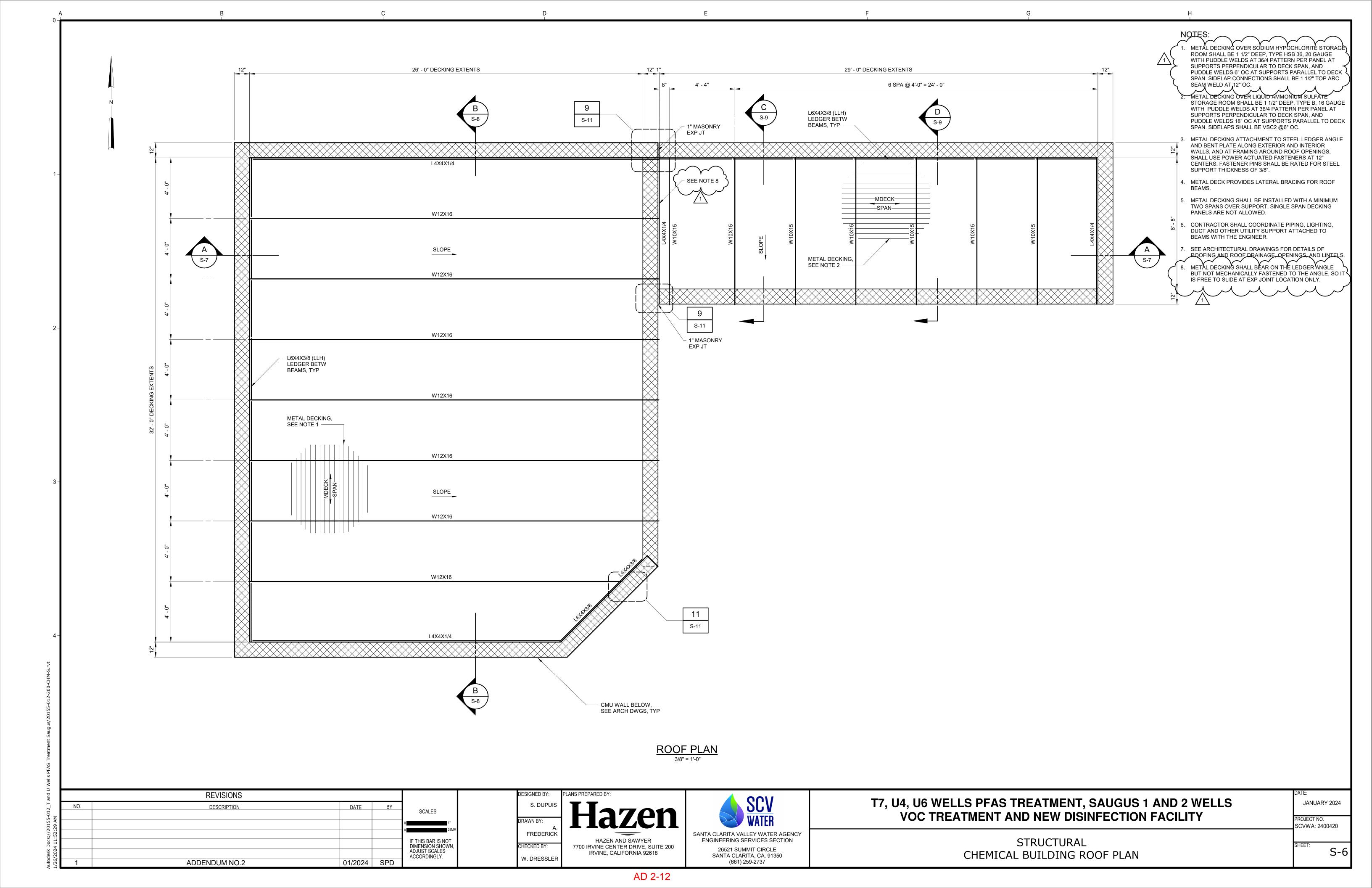
JANUARY 2024 ROJECT NO.

CVWA: 2400420

S-1

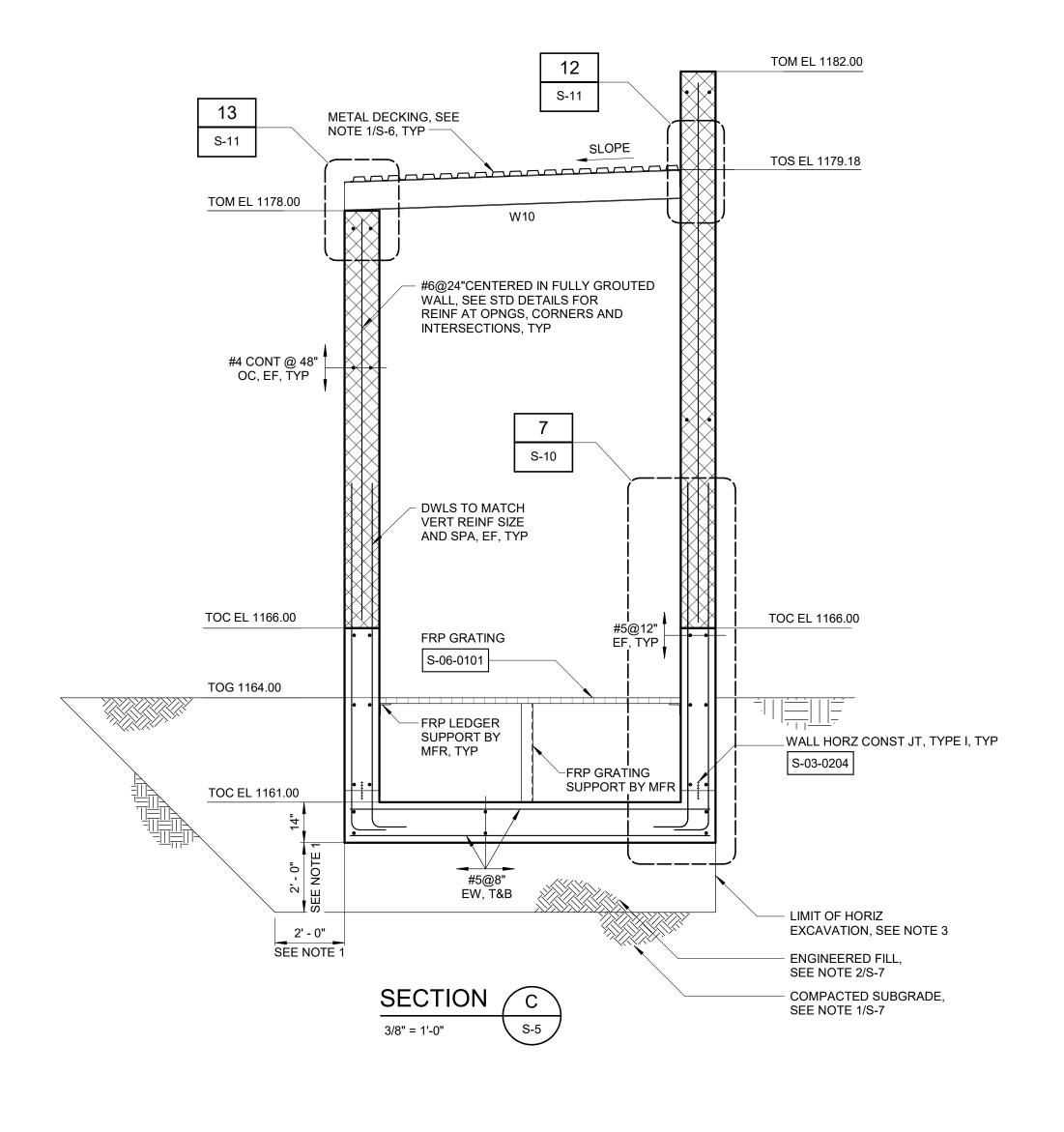


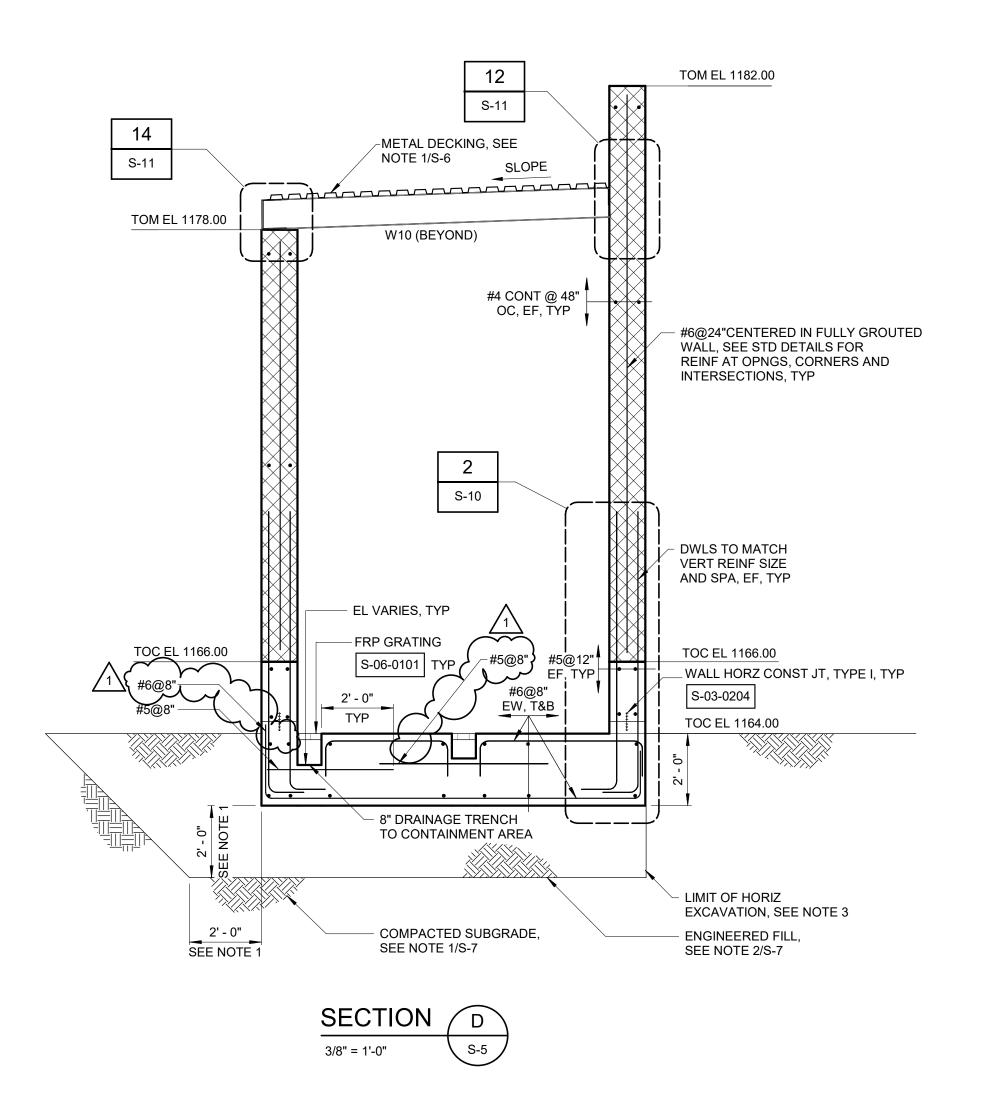


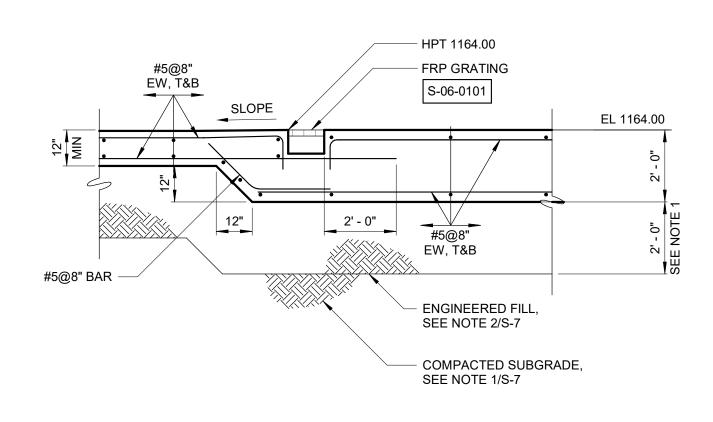


NOTES:

- 1. REFER TO NOTES ON DRAWING S-7 FOR OVER-EXCAVATION REQUIREMENTS, SUBGRADE PREPARATION AND ENGINEERED FILL.
- 2. HORIZONTAL OVER-EXCAVATION AT WEST AND NORTH SIDES OF BUILDING LIMITED BASED ON PROPERTY LINE, SEE CIVIL SITE LAYOUT AND HORIZONTAL CONTROL PLAN C-4. CONTRACTOR SHALL PROVIDE EXCAVATION SUPPORT SYSTEM AS REQUIRED TO FACILITATE VERTICAL OVER-EXCAVATION.







SECTION E
3/8" = 1'-0" S-5

		REVISIONS			
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:29 AM					0 1" 0 25MM
11:52					IF THIS BAR IS NOT
/2024					DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY.
./26	1	ADDENDUM NO.2	01/2024	SPD	

DESIGNED BY:

S. DUPUIS

DRAWN BY:

A.
FREDERICK

CHECKED BY:

W. DRESSLER

PLANS PREPARED BY:

HAZEN AND SAWYER

7700 IRVINE CENTER DRIVE, SUITE 200
IRVINE, CALIFORNIA 92618

SCV WATER

SANTA CLARITA VALLEY WATER AGENCY ENGINEERING SERVICES SECTION

26521 SUMMIT CIRCLE SANTA CLARITA, CA. 91350 (661) 259-2737

T7, U4, U6 WELLS PFAS TREATMENT, SAUGUS 1 AND 2 WELLS VOC TREATMENT AND NEW DISINFECTION FACILITY

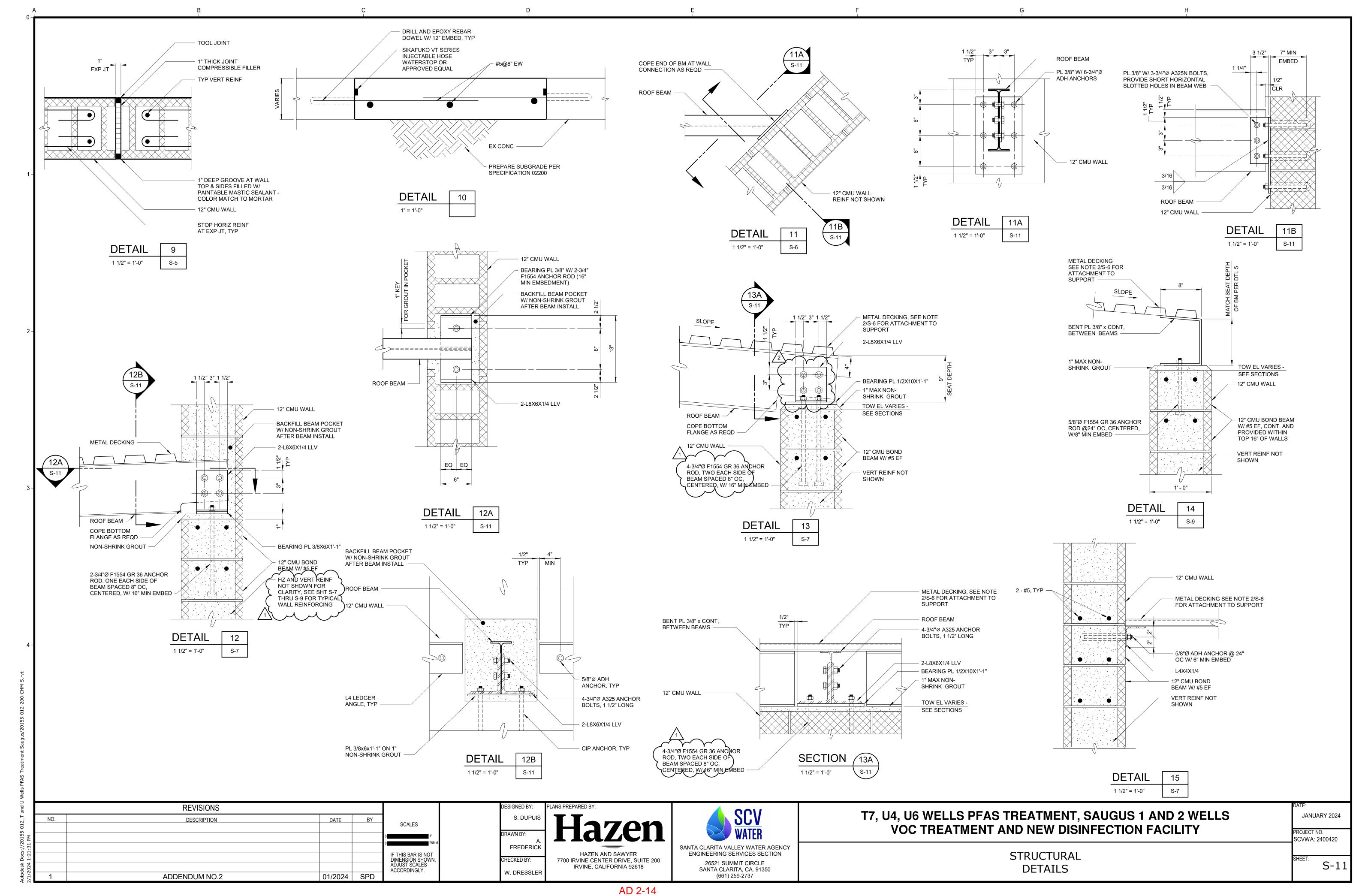
STRUCTURAL
CHEMICAL BUILDING SECTION 3

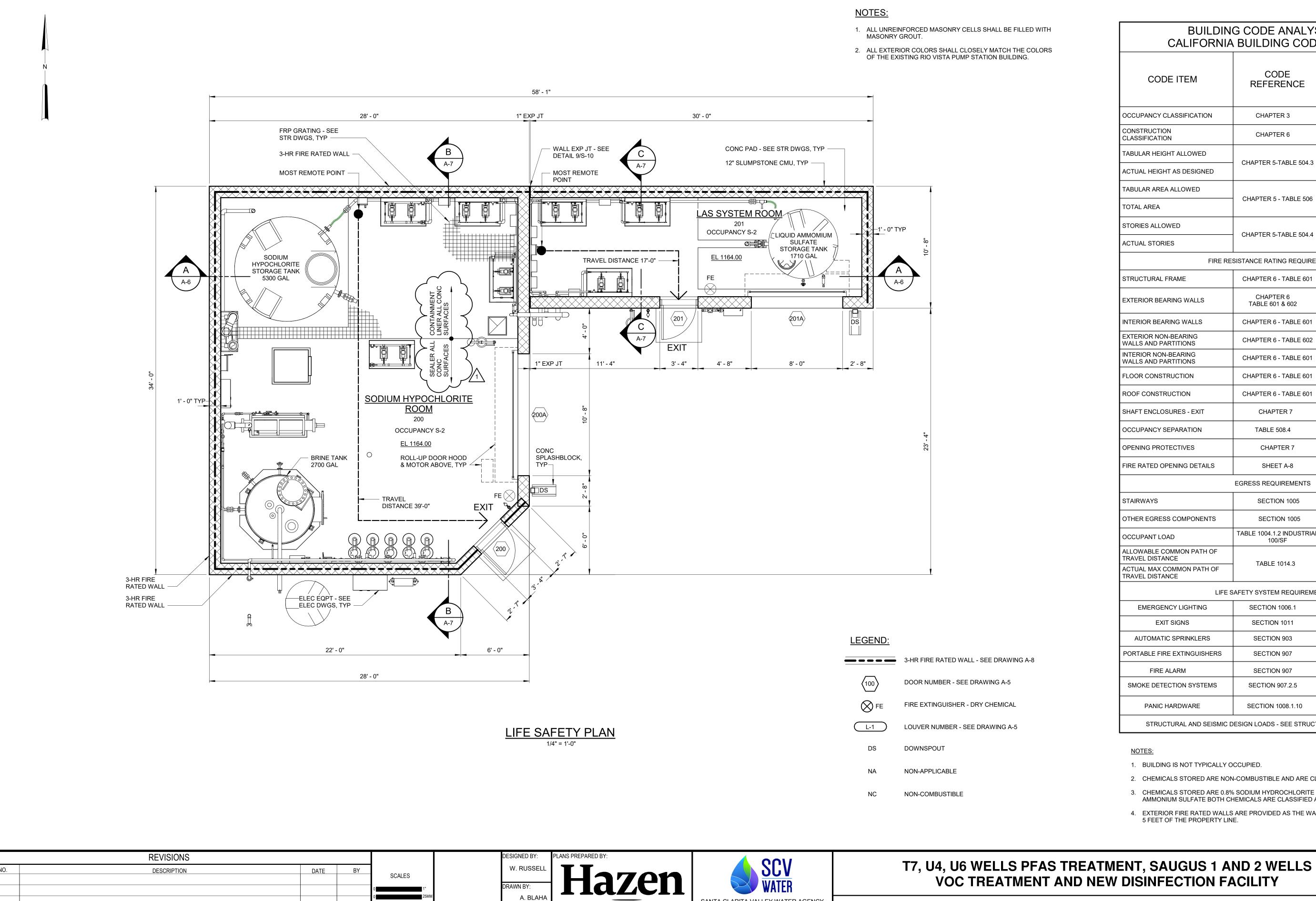
DATE:

JANUARY 2024

PROJECT NO.
SCVWA: 2400420

S-9





IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES

ACCORDINGLY.

01/2024 WHR

ADDENDUM NO.2

CODE ITEM	CODE REFERENCE	CHEMICAL BUILDING
OCCUPANCY CLASSIFICATION	CHAPTER 3	GROUP S-2
CONSTRUCTION CLASSIFICATION	CHAPTER 6	TYPE IIB
TABULAR HEIGHT ALLOWED		55'-0"
ACTUAL HEIGHT AS DESIGNED	CHAPTER 5-TABLE 504.3	21'-0"
TABULAR AREA ALLOWED		26,000 S.F. PER FLOOR
TOTAL AREA	CHAPTER 5 - TABLE 506	1254 S.F.
STORIES ALLOWED		3
ACTUAL STORIES	CHAPTER 5-TABLE 504.4	1
FIRE R	LESISTANCE RATING REQUIREME	NTS
STRUCTURAL FRAME	CHAPTER 6 - TABLE 601	NC
EXTERIOR BEARING WALLS	CHAPTER 6 TABLE 601 & 602	SEE NOTE 4
INTERIOR BEARING WALLS	CHAPTER 6 - TABLE 601	NA
EXTERIOR NON-BEARING WALLS AND PARTITIONS	CHAPTER 6 - TABLE 602	NA
INTERIOR NON-BEARING WALLS AND PARTITIONS	CHAPTER 6 - TABLE 601	NA
FLOOR CONSTRUCTION	CHAPTER 6 - TABLE 601	NC
ROOF CONSTRUCTION	CHAPTER 6 - TABLE 601	NC
SHAFT ENCLOSURES - EXIT	CHAPTER 7	NA
OCCUPANCY SEPARATION	TABLE 508.4	NA
OPENING PROTECTIVES	CHAPTER 7	NA
FIRE RATED OPENING DETAILS	SHEET A-8	N/A
	EGRESS REQUIREMENTS	
STAIRWAYS	SECTION 1005	N/A
OTHER EGRESS COMPONENTS	SECTION 1005	0.2" PER OCCUPANT
OCCUPANT LOAD	TABLE 1004.1.2 INDUSTRIAL	4 OCCUPANTS
ALLOWABLE COMMON PATH OF TRAVEL DISTANCE	100/01	75'-0"
ACTUAL MAX COMMON PATH OF TRAVEL DISTANCE	— TABLE 1014.3	39'-0"
LIFE	SAFETY SYSTEM REQUIREMENT	
EMERGENCY LIGHTING	SECTION 1006.1	YES
EXIT SIGNS	SECTION 1011	YES
AUTOMATIC SPRINKLERS	SECTION 903	NO
PORTABLE FIRE EXTINGUISHERS	SECTION 907	YES
FIRE ALARM	SECTION 907	NO
SMOKE DETECTION SYSTEMS	SECTION 907.2.5	NO
PANIC HARDWARE	SECTION 1008.1.10	NO
STRUCTURAL AND SEISMIC	DESIGN LOADS - SEE STRUCTUR	RAI DRAWINGS

BUILDING CODE ANALYSIS

- BUILDING IS NOT TYPICALLY OCCUPIED.
- 2. CHEMICALS STORED ARE NON-COMBUSTIBLE AND ARE CLASSIFIED AS IRRITANTS.
- 3. CHEMICALS STORED ARE 0.8% SODIUM HYDROCHLORITE AND 40% LIQUID AMMONIUM SULFATE BOTH CHEMICALS ARE CLASSIFIED AS IRRITANTS.
- 4. EXTERIOR FIRE RATED WALLS ARE PROVIDED AS THE WALLS ARE LOCATED WITHIN 5 FEET OF THE PROPERTY LINE.

ARCHITECTURAL	
CHEMICAL STORAGE BUILDING - PLANS, BUILDING CODE AND LIFE SAFE	ΤΥ

DECEMBER 2023 ROJECT NO. SCVWA: 2400420

A-1

HAZEN AND SAWYER

7700 IRVINE CENTER DRIVE, SUITE 200

IRVINE, CALIFORNIA 92618

HECKED BY:

D. FONG

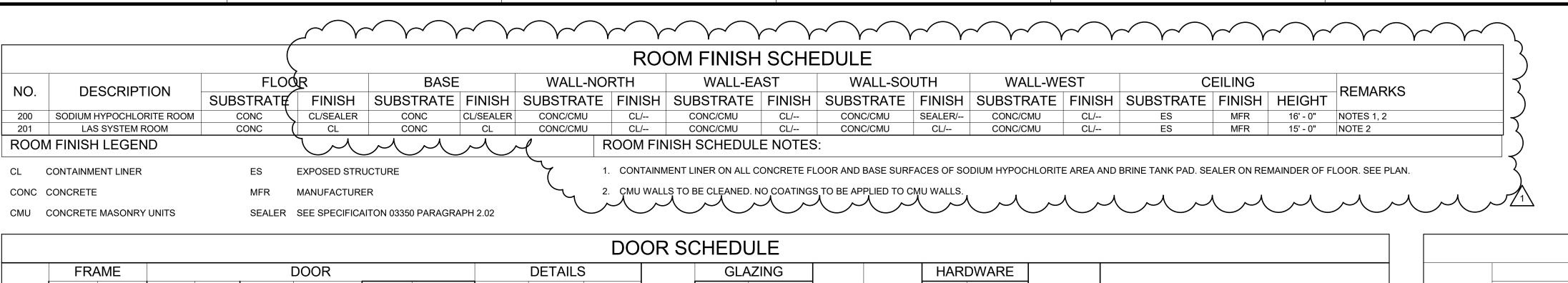
SANTA CLARITA VALLEY WATER AGENCY

ENGINEERING SERVICES SECTION

26521 SUMMIT CIRCLE

SANTA CLARITA, CA. 91350

(661) 259-2737



	DOOR SCHEDULE																			
FRAME DOOR DETAILS								3		GLA	ZING			HARI	DWARE					
NO.	TYPE	MATL	TYPE	MATL	ACTIVE WIDTH	INACTIVE WIDTH		THICKNESS	HEAD	JAMB	SILL	FIRE RATING	TYPE	SIZE	FINISH	SECURITY WIRING	NO	NOTE	THRESHOLD	REMARKS
200	F-1	HM	F	HM	3' - 0"	0' - 0"	7' - 2"	1 3/4"	1/A-3	1/A-3	1/A-3	90 MIN			PT		1		AL	PROVIDE PANIC HARDWARE
200A	MFR	STL	ОН	AL	10' - 8"		12' - 0"	3/4"	2/A-3	2/A-3	2/A-3				MFR			MOTOR		PREFINISHED INSULATED OVERHEAD DOOR, MOTORIZED
201	F-1	HM	F	НМ	3' - 0"	0' - 0"	7' - 2"	1 3/4"	1/A-3	1/A-3	1/A-3				PT		1		AL	PROVIDE PANIC HARDWARE
201A	MFR	STL	OH	AL	8' - 0"		10' - 0"	3/4"	2/A-3	2/A-3	2/A-3				MFR			MOTOR		PREFINISHED INSULATED OVERHEAD DOOR, MOTORIZED
DOOR LEGEND DOOR SCH									SCHEDU	LE NOTE	S:									

LOUVER SCHEDULE FRAME DETAILS REMARKS AREA HEAD HEIGHT WIDTH L200 9.08 SF 3/A-5 3/A-5 3/A-5 3/A-5 L200A 2' - 0" 2' - 0" 1.97 SF L201 1' - 4" 1' - 4" 0.60 SF 3/A-5 3/A-5 3/A-5 L201A 2' - 8" 2' - 8" 1.97 SF 3/A-5 3/A-5 3/A-5 LOUVER LEGEND LOUVER SCHEDULE NOTES:

AL ALUMINUM

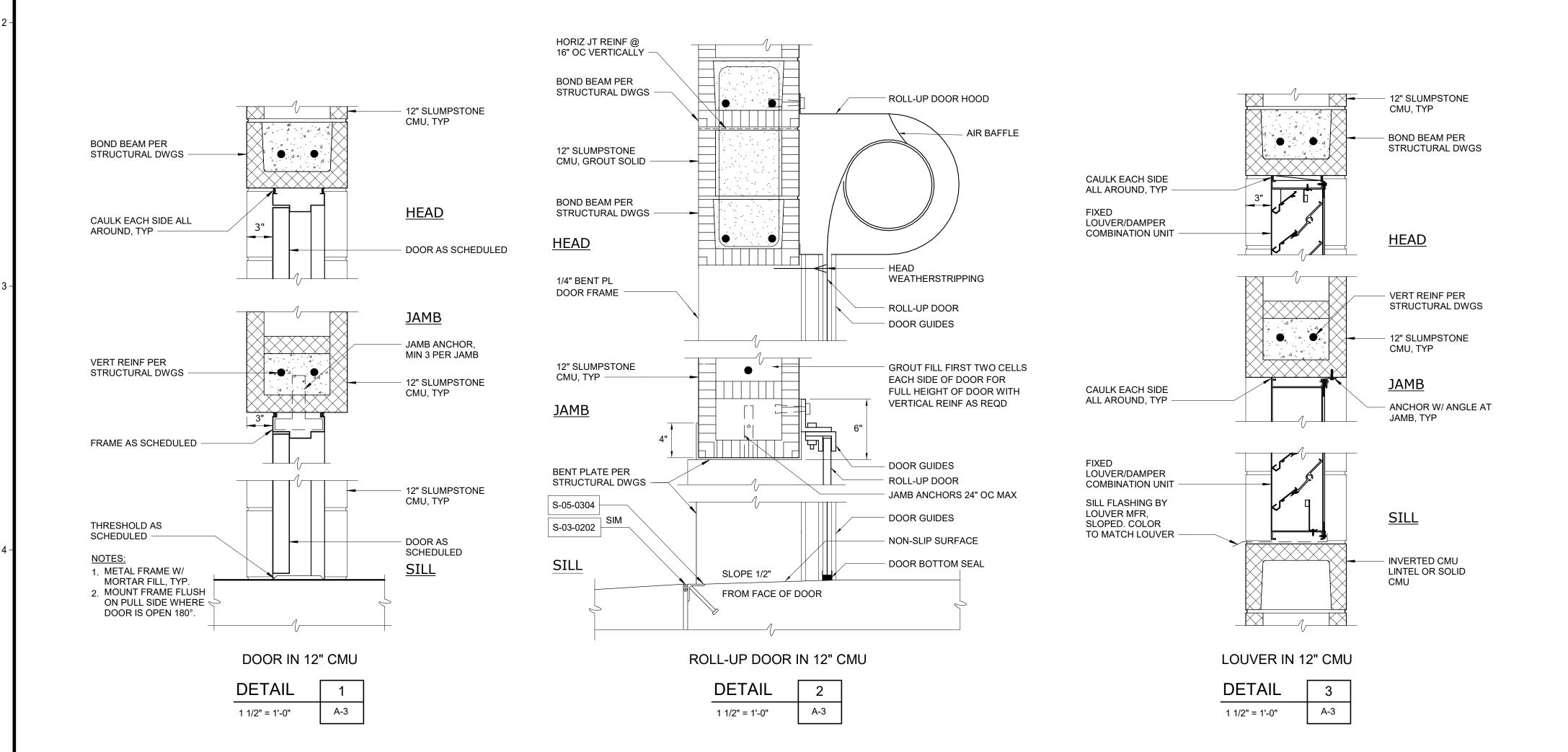
MFR MANUFACTURER

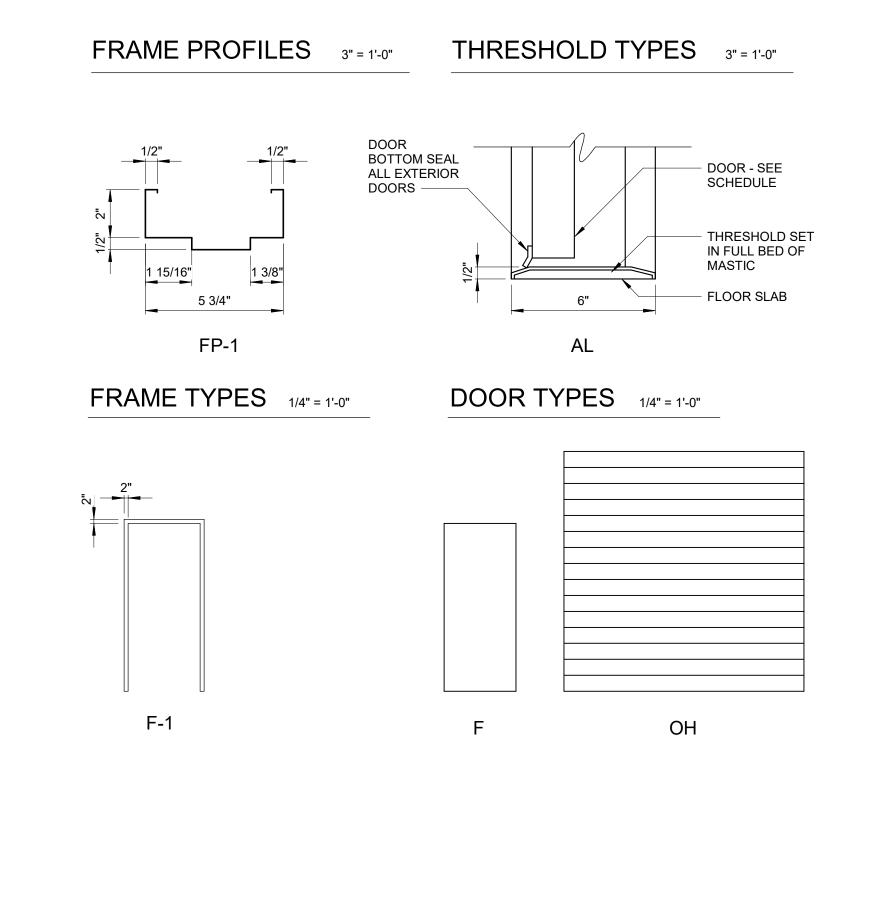
AL ALUMINUM STL STEEL FRP FIBERGLASS REINFORCED PLASTIC

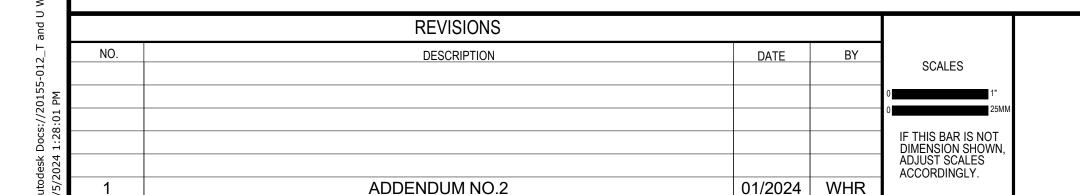
PT PAINT

HOLLOW METAL

MFR MANUFACTURER











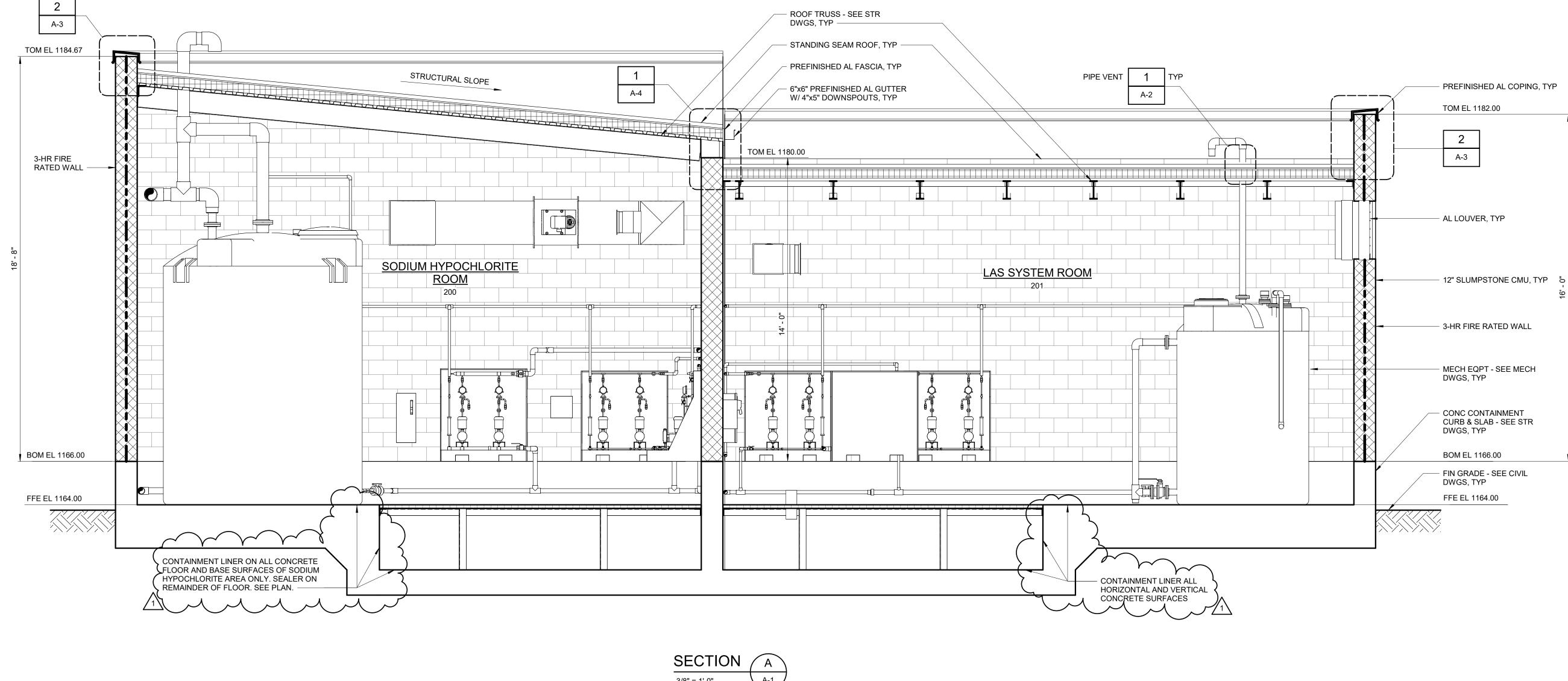
(661) 259-2737

T7, U4, U6 WELLS PFAS TREATMENT, SAUGUS 1 AND 2 WELLS **VOC TREATMENT AND NEW DISINFECTION FACILITY**

ARCHITECTURAL CHEMICAL STORAGE BUILDING - SCHEDULES AND DETAILS

DECEMBER 2023 PROJECT NO. SCVWA: 2400420

A-5



REVISIONS DATE DESCRIPTION SCALES IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY. ADDENDUM NO.2 01/2024 WHR

W. RUSSELL A. BLAHA HECKED BY:

D. FONG

HAZEN AND SAWYER 7700 IRVINE CENTER DRIVE, SUITE 200 IRVINE, CALIFORNIA 92618

SCV WATER SANTA CLARITA VALLEY WATER AGENCY ENGINEERING SERVICES SECTION 26521 SUMMIT CIRCLE SANTA CLARITA, CA. 91350 (661) 259-2737

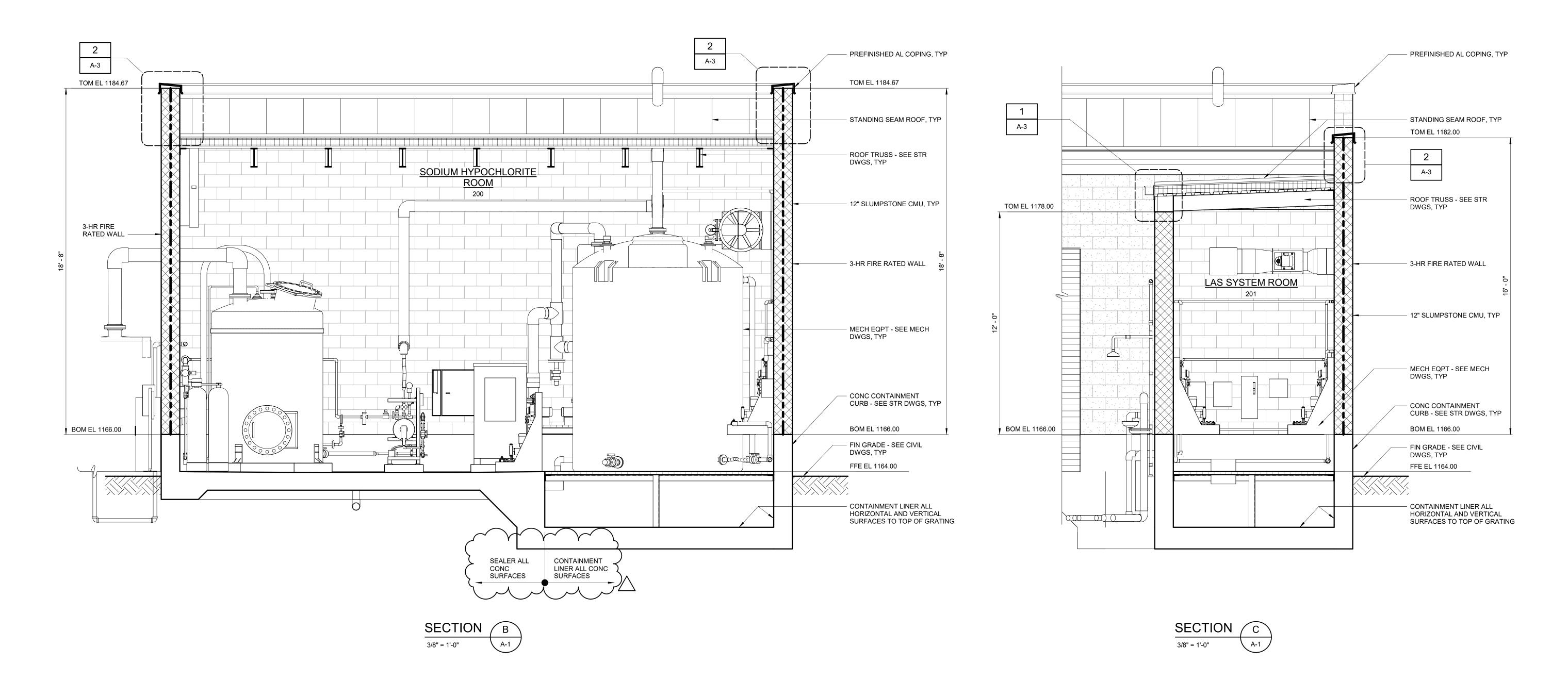
T7, U4, U6 WELLS PFAS TREATMENT, SAUGUS 1 AND 2 WELLS **VOC TREATMENT AND NEW DISINFECTION FACILITY**

> ARCHITECTURAL CHEMICAL STORAGE BUILDING - SECTIONS I

DECEMBER 2023 PROJECT NO. SCVWA: 2400420 A-6

NOTES:

1. CONTRACTOR TO PROVIDE WALL, SLAB, EQUIPMENT, AND ROOF PENETRATION PLAN BEFORE CONSTRUCTION OF EACH ELEMENT COORDINATED WITH EACH PLAN. STRUCTURAL, ARCHITECTURAL ROOF, ETC.



LEGEND:

3-HR FIRE RATED WALL - SEE DRAWING A-8

	REVISIONS			
NO.	DESCRIPTION	DATE	BY	SCALES
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				0 25MM
				IF THIS BAR IS NOT
				DIMENSION SHOWN, ADJUST SCALES
1	ADDENDUM NO.2	01/2024	WH	ACCORDINGLY.

DESIGNED BY:

W. RUSSELL

DRAWN BY:

A. BLAHA

CHECKED BY:

PLANS PREPARED BY:

HAZEN AND SAWYER

7700 IRVINE CENTER DRIVE, SUITE 200
IRVINE, CALIFORNIA 92618

D. FONG



T7, U4, U6 WELLS PFAS TREATMENT, SAUGUS 1 AND 2 WELLS VOC TREATMENT AND NEW DISINFECTION FACILITY

ARCHITECTURAL CHEMICAL STORAGE BUILDING - SECTIONS II DECEMBER 2023

PROJECT NO.
SCVWA: 2400420

SHEET:

A-7

SANTA CLARITA VALLEY WATER AGENCY NOTICE TO PLANHOLDERS

ADDENDUM NO. 3

Owner:	Santa Clarita Valley Water Agency 26521 Summit Circle Santa Clarita, California 91350
Project:	T7, U4, U6 Wells PFAS Treatment, Saugus 1 and Saugus 2 Wells VOC Treatment and New Disinfection Facility Project
To:	All Planholders
From:	Santa Clarita Valley Water Agency
Bid Date:	March 8, 2024, at 5:00 PM
Wells PFAS Treatme Facility Project, dated Addendum No. 3 sha herein shall take pred	en to prospective bidders that the Contract Documents for the T7, U4, U6 ent, Saugus 1 and Saugus 2 Wells VOC Treatment and New Disinfection d December 18, 2023, have been modified as hereinafter set forth. This all form a part of the Contract Documents and the modifications indicated cedence over the original Contract Documents and previous Addenda, as provisions shall remain the same.
shall be attached to the By:	P.E., Principal Engineer
Date:	
ACKNOWLEDGEME	NT TO BE ATTACHED TO SEALED BID.
I have received Adde	ndum No. 3 (pages AD 3-1 through AD 3-58).
Contractor:	<u> </u>
Signature:	
Printed Name:	
Title:	
Date	

GENERAL: The following changes, additions, or deletions shall be made to the following documents as noted and shall take precedence over the original Contract Documents and previous Addenda, as applicable. All other provisions remain the same.

ADDENDUM 3, ITEM 1. CONTRACT DOCUMENTS, INSTRUCTIONS TO BIDDERS-PARAGRAPH IB-27

DELETE in its entirety and REPLACE with the following:

"The successful Bidder will be required to comply with all terms and conditions set forth in the Finance Agreement and Guidelines issued by the State Water Resources Control Board for potential grant funding.

As further detailed in Special Provisions, Bidders shall complete the following DBE forms located in Bid Forms and submit them with their bids:

- DBE Subcontractor Performance Form (Form 4500-3)
- DBE Subcontractor Utilization Form (Form 4500-4)

DBE Contractors and subcontractors must be certified at bidopening. Bidders shall provide Proof of DBE certification for all listed DBEs with their bids.

Proof of DBE Certification and all mail logs, phone logs, electronic searches and communication, newspaper and similar records documenting efforts to meet the Good Faith Effort requirements shall be combined and submitted in a single file and shall be a separate file from all bid forms required from bidder as described in the Contractor Documents, Instructions to Bidders, Section IB-06.

Bid Forms shall be submitted on PlanetBids, under "Completed Bid Form" within the General Attachments tab.

Proof of DBE Certifications and Good Faith Effort supporting documents shall be submitted on PlanetBids, under "GFE Compliance Documents" within the General Attachment tab."

ADDENDUM 3, ITEM 2.

CONTRACT DOCUMENTS, CONTRACT AGREEMENT

DELETE the following:

EXHIBIT A, in tis entirety

And REPLACE with:

the attached EXHIBIT A, Addendum No. 3

"General Decision Number: CA20240022 02/02/2024 Superseded General Decision Number: CA20230022 State: California Construction Types: Building, Heavy (Heavy and Dredging) and Highway County: Los Angeles County in California. BUILDING CONSTRUCTION PROJECTS; DREDGING PROJECTS (does not include hopper dredge work); HEAVY CONSTRUCTION PROJECTS (does not include water well drilling); HIGHWAY CONSTRUCTION PROJECTS Note: Contracts subject to the Davis-Bacon Act are generally required to pay at least the applicable minimum wage rate required under Executive Order 14026 or Executive Order 13658. Please note that these Executive Orders apply to covered contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but do not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(1). | If the contract is entered | Executive Order 14026 | | into on or after January 30, | generally applies to the | 2022, or the contract is contract.

```
|renewed or extended (e.g., an |. The contractor must pay |
option is exercised) on or | all covered workers at |
after January 30, 2022: | least $17.20 per hour (or |
                the applicable wage rate
                | listed on this wage
                determination, if it is
                | higher) for all hours
                | spent performing on the |
                contract in 2024.
| If the contract was awarded on |. Executive Order 13658
or between January 1, 2015 and generally applies to the
|January 29, 2022, and the | contract.
|contract is not renewed or |. The contractor must pay all|
extended on or after January | covered workers at least |
30, 2022:
                     | $12.90 per hour (or the |
                | applicable wage rate listed|
                on this wage determination,
                | if it is higher) for all |
                | hours spent performing on |
                that contract in 2024.
```

The applicable Executive Order minimum wage rate will be adjusted annually. If this contract is covered by one of the Executive Orders and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must still submit a conformance request.

Additional information on contractor requirements and worker protections under the Executive Orders is available at http://www.dol.gov/whd/govcontracts.

Modification Number Publication Date

0 01/05/2024

1 01/12/2024

2 02/02/2024

ASBE0005-002 09/01/2023

ASBE0005-004 07/04/2022

Rates Fringes

Asbestos Workers/Insulator
(Includes the application of
all insulating materials,
protective coverings,
coatings, and finishes to all
types of mechanical systems).....\$ 49.58 25.27
Fire Stop Technician
(Application of Firestopping
Materials for wall openings
and penetrations in walls,
floors, ceilings and curtain
walls).......\$ 36.97 20.36

Rates Fringes

Asbestos Removal

worker/hazardous material

handler (Includes

preparation, wetting,

stripping, removal,

scrapping, vacuuming, bagging

and disposing of all

insulation materials from

mechanical systems, whether

they contain asbestos or not)....\$ 23.52 13.37

BOIL0092-003 01/01/2024

Rates Fringes

BOILERMAKER......\$ 51.98 42.11

Rates Fringes

BRICKLAYER; MARBLE SETTER......\$ 41.53 19.48

^{*} BRCA0004-007 05/01/2020

^{*}The wage scale for prevailing wage projects performed in Blythe, China lake, Death Valley, Fort Irwin, Twenty-Nine Palms, Needles and 1-15 corridor (Barstow to the Nevada

State Line) will be Three Dollars (\$3.00) above the standard San Bernardino/Riverside County hourly wage rate
standard San Bernardino/Niverside county hodry wage rate
BRCA0018-004 06/01/2022
Rates Fringes
MARBLE FINISHER\$ 37.87 14.13
TILE FINISHER\$ 32.44 12.54
TILE LAYER\$ 45.05 18.33
BRCA0018-010 09/01/2022
Rates Fringes
TERRAZZO FINISHER\$ 38.37 14.13
TERRAZZO WORKER/SETTER\$ 46.49 14.66
CARP0213-001 07/01/2021
Rates Fringes
CARPENTER
(1) Carpenter, Cabinet
Installer, Insulation
Installer, Hardwood Floor
Worker and acoustical
installer

(2) Millwright\$ 52.10	16.48
(3) Piledrivermen/Derrick	
Bargeman, Bridge or Dock	
Carpenter, Heavy Framer,	
Rock Bargeman or Scowman,	
Rockslinger, Shingler	
(Commercial)\$ 51.73	16.28
(4) Pneumatic Nailer,	
Power Stapler\$ 51.85	16.28
(5) Sawfiler\$ 51.69	16.28
(6) Scaffold Builder\$ 42.80	16.28
(7) Table Power Saw	
Operator\$ 51.70	16.28

FOOTNOTE: Work of forming in the construction of open cut sewers or storm drains, on operations in which horizontal lagging is used in conjunction with steel H-Beams driven or placed in pre- drilled holes, for that portion of a lagged trench against which concrete is poured, namely, as a substitute for back forms (which work is performed by piledrivers): \$0.13 per hour additional.

CARP0213-002 07/01/2021

Rates Fringes

Diver

(1) Wet.....\$ 834.40 16.28

(2) Standby	\$ 4	45.84	16.28	}	
(3) Tender	\$ 43	37.84	16.28		
(4) Assistant Te	ender	\$ 413.84	16.	.28	
Amounts in ""Rat		-			
CARP0213-004 0	7/01/2021				
	Rates	Fringes			
Drywall					
DRYWALL INST	ALLER/LAT	HER\$ 5	1.60	16.28	3
STOCKER/SCRA		•			
CARP0721-001 0					
	Rates	Fringes			
Modular Furnitur	e Installer	\$ 21.85	5	7.15	
ELEC0011-004 06	5/30/2023				
	Rates	Fringes			
ELECTRICIAN (INS	IDE				
ELECTRICAL WOR	K)				
Journeyman El	ectrician	\$ 60.80	3%	5+29.77	
ELECTRICIAN (INT	ELLIGENT				

TRANSPORTATION SYSTEMS Street

Lighting, Traffic Signals,

CCTV, and Underground Systems)

Journeyman Transportation

Electrician......\$ 60.80 3%+29.77

Technician.....\$ 45.60 3%+29.77

FOOT NOTE:

CABLE SPLICER & INSTRUMENT PERSON: Recieve 5% additional per

hour above Journeyman Electrician basic hourly rate.

TUNNEL WORK: 10% additional per hour.

SCOPE OF WORK - TRANSPORTATION SYSTEMS

ELECTRICIAN:

Installation of street lights and traffic signals, including electrical circuitry, programmable controllers, pedestal-mounted electrical meter enclosures and laying of pre-assembled multi-conductor cable in ducts, layout of electrical systems and communication installation, including proper position of trench depths and radius at duct banks, location for man holes, pull boxes, street lights and traffic signals.

Installation of underground ducts for electrical, telephone, cable television and communication systems.

Pulling, termination and splicing of traffic signal and street lighting conductors and electrical systems including interconnect, detector loop, fiber optic cable and video/cable.

TECHNICIAN:

Distribution of material at job site, manual excavation and backfill, installation of system conduits and raceways for electrical, telephone, cable television and communication systems. Pulling, terminating and splicing of traffic signal and street lighting conductors and electrical systems including interconnect, detector loop, fiber optic cable and video/data.

* ELEC0011-007 01/01/2024

COMMUNICATIONS & SYSTEMS WORK (excludes any work on Intelligent Transportation Systems or CCTV highway systems)

Rates Fringes

Communications System

Installer.....\$ 46.47 3%+17.08

SCOPE OF WORK The work covered shall include the installation, testing, service and maintenance, of the following systems that utilize the transmission and/or transference of voice, sound, vision and digital for commercial, education, security and entertainment purposes for TV monitoring and surveillance, background foreground music, intercom and telephone interconnect, inventory control systems, microwave transmission, multi-media,

multiplex, nurse call system, radio page, school intercom and sound, burglar alarms and low voltage master clock systems.

A. Communication systems that transmit or receive information and/or control systems that are intrinsic to the above listed systems SCADA (Supervisory control/data acquisition PCM (Pulse code modulation) Inventory control systems Digital data systems Broadband & baseband and carriers Point of sale systems VSAT data systems Data communication systems RF and remote control systems Fiber optic data systems

B. Sound and Voice Transmission/Transference Systems

Background-Foreground Music Intercom and Telephone
Interconnect Systems Sound and Musical Entertainment

Systems Nurse Call Systems Radio Page Systems School
Intercom and Sound Systems Burglar Alarm Systems

Low-Voltage Master Clock Systems Multi-Media/Multiplex

Systems Telephone Systems RF Systems and Antennas and Wave

Guide

- C. *Fire Alarm Systems-installation, wire pulling and testing.
- D. Television and Video Systems Television Monitoring and
 Surveillance Systems Video Security Systems Video
 Entertainment Systems Video Educational Systems CATV and
 CCTV

E. Security Systems, Perimeter Security Systems, VibrationSensor SystemsSonar/Infrared Monitoring Equipment, Access Control Systems,Card Access Systems

*Fire Alarm Systems

- Fire Alarms-In Raceways: Wire and cable pulling in raceways performed at the current electrician wage rate and fringe benefits.
- 2. Fire Alarms-Open Wire Systems: installed by the Technician.

ELEC1245-001 06/01/2022

Rates Fringes

LINE CONSTRUCTION

- (1) Lineman; Cable splicer..\$ 64.40 22.58
- (2) Equipment specialist

(operates crawler

tractors, commercial motor

vehicles, backhoes,

trenchers, cranes (50 tons

and below), overhead &

underground distribution

line equipment)......\$ 50.00 21.30

(3) Groundman.....\$ 38.23 20.89

(4) Powderman......\$ 51.87 18.79

HOLIDAYS: New Year's Day, M.L. King Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day and day after Thanksgiving, Christmas Day
ELEV0018-001 01/01/2023
Rates Fringes
ELEVATOR MECHANIC\$ 63.95 37.335+a+b
FOOTNOTE:
a. PAID VACATION: Employer contributes 8% of regular hourly
rate as vacation pay credit for employees with more than 5
years of service, and 6% for 6 months to 5 years of service.
b. PAID HOLIDAYS: New Year's Day, Memorial Day, Independence
Day, Labor Day, Veterans' Day, Thanksgiving Day, Friday
after Thanksgiving, and Christmas Day.
ENGI0012-003 07/01/2022
Rates Fringes
OPERATOR: Power Equipment
(All Other Work)
GROUP 1\$ 51.90 30.70

GROUP 2\$ 52.68	30.70	
GROUP 3\$ 52.97	30.70	
GROUP 4\$ 54.46	30.70	
GROUP 5\$ 48.96	25.25	
GROUP 6\$ 54.68	30.70	
GROUP 8\$ 54.79	30.70	
GROUP 9\$ 49.29	25.25	
GROUP 10\$ 54.91	30.70	
GROUP 11\$ 49.41	25.25	
GROUP 12\$ 55.08	30.70	
GROUP 13\$ 55.18	30.70	
GROUP 14\$ 55.21	30.70	
GROUP 15\$ 55.29	30.70	
GROUP 16\$ 55.41	30.70	
GROUP 17\$ 55.58	30.70	
GROUP 18\$ 55.68	30.70	
GROUP 19\$ 55.79	30.70	
GROUP 20\$ 55.91	30.70	
GROUP 21\$ 56.08	30.70	
GROUP 22\$ 56.18	30.70	
GROUP 23\$ 56.29	30.70	
GROUP 24\$ 56.41	30.70	
GROUP 25\$ 56.58	30.70	
OPERATOR: Power Equipment		
(Cranes, Piledriving &		
Hoisting)		
GROUP 1\$ 53.25	30.70	
GROUP 2\$ 54.03	30.70	
GROUP 3\$ 54.32	30.70	

GROUP 4\$ 54.46	30.70
GROUP 5\$ 54.68	30.70
GROUP 6\$ 54.79	30.70
GROUP 7\$ 54.91	30.70
GROUP 8\$ 55.08	30.70
GROUP 9\$ 55.25	30.70
GROUP 10\$ 56.25	30.70
GROUP 11\$ 57.25	30.70
GROUP 12\$ 58.25	30.70
GROUP 13\$ 59.25	30.70
OPERATOR: Power Equipment	
(Tunnel Work)	
GROUP 1\$ 54.53	30.70
GROUP 2\$ 54.82	30.70
GROUP 3\$ 54.96	30.70
GROUP 4\$ 55.18	30.70
GROUP 5\$ 55.29	30.70
GROUP 6\$ 55.41	30.70
GROUP 7\$ 55.71	30.70

PREMIUM PAY:

\$3.75 per hour shall be paid on all Power Equipment Operator work on the followng Military Bases: China Lake Naval Reserve, Vandenberg AFB, Point Arguello, Seely Naval Base, Fort Irwin, Nebo Annex Marine Base, Marine Corp Logistics Base Yermo, Edwards AFB, 29 Palms Marine Base and Camp Pendleton

Workers required to suit up and work in a hazardous material

environment: \$2.00 per hour additional. Combination mixer and compressor operator on gunite work shall be classified as a concrete mobile mixer operator.

SEE ZONE DEFINITIONS AFTER CLASSIFICATIONS

POWER EQUIPMENT OPERATORS CLASSIFICATIONS

GROUP 1: Bargeman; Brakeman; Compressor operator; Ditch Witch, with seat or similar type equipment; Elevator operator-inside; Engineer Oiler; Forklift operator (includes loed, lull or similar types under 5 tons; Generator operator; Generator, pump or compressor plant operator; Pump operator; Signalman; Switchman

GROUP 2: Asphalt-rubber plant operator (nurse tank operator);
Concrete mixer operator-skip type; Conveyor operator;
Fireman; Forklift operator (includes loed, lull or similar
types over 5 tons; Hydrostatic pump operator; oiler crusher
(asphalt or concrete plant); Petromat laydown machine; PJU
side dum jack; Screening and conveyor machine operator (or
similar types); Skiploader (wheel type up to 3/4 yd.
without attachment); Tar pot fireman; Temporary heating
plant operator; Trenching machine oiler

GROUP 3: Asphalt-rubber blend operator; Bobcat or similar type (Skid steer); Equipment greaser (rack); Ford Ferguson (with dragtype attachments); Helicopter radioman (ground); Stationary pipe wrapping and cleaning machine operator

GROUP 4: Asphalt plant fireman; Backhoe operator (mini-max or similar type); Boring machine operator; Boxman or mixerman (asphalt or concrete); Chip spreading machine operator; Concrete cleaning decontamination machine operator; Concrete Pump Operator (small portable); Drilling machine operator, small auger types (Texoma super economatic or similar types - Hughes 100 or 200 or similar types drilling depth of 30' maximum); Equipment greaser (grease truck); Guard rail post driver operator; Highline cableway signalman; Hydra-hammer-aero stomper; Micro Tunneling (above ground tunnel); Power concrete curing machine operator; Power concrete saw operator; Power-driven jumbo form setter operator; Power sweeper operator; Rock Wheel Saw/Trencher; Roller operator (compacting); Screed operator (asphalt or concrete); Trenching machine operator (up to 6 ft.); Vacuum or much truck

GROUP 5: Equipment Greaser (Grease Truck/Multi Shift).

engineer; Batch plant operator; Bit sharpener; Concrete joint machine operator (canal and similar type); Concrete planer operator; Dandy digger; Deck engine operator; Derrickman (oilfield type); Drilling machine operator, bucket or auger types (Calweld 100 bucket or similar types - Watson 1000 auger or similar types - Texoma 330, 500 or 600 auger or similar types - drilling depth of 45' maximum); Drilling machine operator; Hydrographic seeder

machine operator (straw, pulp or seed), Jackson track maintainer, or similar type; Kalamazoo Switch tamper, or similar type; Machine tool operator; Maginnis internal full slab vibrator, Mechanical berm, curb or gutter(concrete or asphalt); Mechanical finisher operator (concrete, Clary-Johnson-Bidwell or similar); Micro tunnel system (below ground); Pavement breaker operator (truck mounted); Road oil mixing machine operator; Roller operator (asphalt or finish), rubber-tired earth moving equipment (single engine, up to and including 25 yds. struck); Self-propelled tar pipelining machine operator; Skiploader operator (crawler and wheel type, over 3/4 yd. and up to and including 1-1/2 yds.); Slip form pump operator (power driven hydraulic lifting device for concrete forms); Tractor operator-bulldozer, tamper-scraper (single engine, up to 100 h.p. flywheel and similar types, up to and including D-5 and similar types); Tugger hoist operator (1 drum); Ultra high pressure waterjet cutting tool system operator; Vacuum blasting machine operator

GROUP 8: Asphalt or concrete spreading operator (tamping or finishing); Asphalt paving machine operator (Barber Greene or similar type); Asphalt-rubber distribution operator;
Backhoe operator (up to and including 3/4 yd.), small ford,
Case or similar; Cast-in-place pipe laying machine
operator; Combination mixer and compressor operator (gunite work); Compactor operator (self-propelled); Concrete mixer
operator (paving); Crushing plant operator; Drill Doctor;
Drilling machine operator, Bucket or auger types (Calweld

150 bucket or similar types - Watson 1500, 2000 2500 auger or similar types - Texoma 700, 800 auger or similar types drilling depth of 60' maximum); Elevating grader operator; Grade checker; Gradall operator; Grouting machine operator; Heavy-duty repairman; Heavy equipment robotics operator; Kalamazoo balliste regulator or similar type; Kolman belt loader and similar type; Le Tourneau blob compactor or similar type; Loader operator (Athey, Euclid, Sierra and similar types); Mobark Chipper or similar; Ozzie padder or similar types; P.C. slot saw; Pneumatic concrete placing machine operator (Hackley-Presswell or similar type); Pumpcrete gun operator; Rock Drill or similar types; Rotary drill operator (excluding caisson type); Rubber-tired earth-moving equipment operator (single engine, caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds. up to and including 50 cu. yds. struck); Rubber-tired earth-moving equipment operator (multiple engine up to and including 25 yds. struck); Rubber-tired scraper operator (self-loading paddle wheel type-John Deere, 1040 and similar single unit); Selfpropelled curb and gutter machine operator; Shuttle buggy; Skiploader operator (crawler and wheel type over 1-1/2 yds. up to and including 6-1/2 yds.); Soil remediation plant operator; Surface heaters and planer operator; Tractor compressor drill combination operator; Tractor operator (any type larger than D-5 - 100 flywheel h.p. and over, or similar-bulldozer, tamper, scraper and push tractor single engine); Tractor operator (boom attachments), Traveling pipe wrapping, cleaning and bendng machine operator;

Trenching machine operator (over 6 ft. depth capacity, manufacturer's rating); trenching Machine with Road Miner attachment (over 6 ft depth capacity): Ultra high pressure waterjet cutting tool system mechanic; Water pull (compaction) operator

GROUP 9: Heavy Duty Repairman

GROUP 10: Drilling machine operator, Bucket or auger types (Calweld 200 B bucket or similar types-Watson 3000 or 5000 auger or similar types-Texoma 900 auger or similar types-drilling depth of 105' maximum); Dual drum mixer, dynamic compactor LDC350 (or similar types); Monorail locomotive operator (diesel, gas or electric); Motor patrol-blade operator (single engine); Multiple engine tractor operator (Euclid and similar type-except Quad 9 cat.); Rubber-tired earth-moving equipment operator (single engine, over 50 yds. struck); Pneumatic pipe ramming tool and similar types; Prestressed wrapping machine operator; Rubber-tired earth-moving equipment operator (single engine, over 50 yds. struck); Rubber tired earth moving equipment operator (multiple engine, Euclid, caterpillar and similar over 25 yds. and up to 50 yds. struck), Tower crane repairman; Tractor loader operator (crawler and wheel type over 6-1/2 yds.); Woods mixer operator (and similar Pugmill equipment)

GROUP 11: Heavy Duty Repairman - Welder Combination, Welder - Certified.

GROUP 12: Auto grader operator; Automatic slip form operator; Drilling machine operator, bucket or auger types (Calweld, auger 200 CA or similar types - Watson, auger 6000 or similar types - Hughes Super Duty, auger 200 or similar types - drilling depth of 175' maximum); Hoe ram or similar with compressor; Mass excavator operator less tha 750 cu. yards; Mechanical finishing machine operator; Mobile form traveler operator; Motor patrol operator (multi-engine); Pipe mobile machine operator; Rubber-tired earth- moving equipment operator (multiple engine, Euclid, Caterpillar and similar type, over 50 cu. yds. struck); Rubber-tired self- loading scraper operator (paddle-wheel-auger type self-loading - two (2) or more units)

GROUP 13: Rubber-tired earth-moving equipment operator operating equipment with push-pull system (single engine, up to and including 25 yds. struck)

GROUP 14: Canal liner operator; Canal trimmer operator;
Remote- control earth-moving equipment operator (operating a second piece of equipment: \$1.00 per hour additional);
Wheel excavator operator (over 750 cu. yds.)

GROUP 15: Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (single engine, Caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds. and up to and including 50 yds. struck); Rubber-tired earth-moving equipment operator,

operating equipment with push-pull system (multiple engine-up to and including 25 yds. struck)

GROUP 16: Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (single engine, over 50 yds. struck); Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (multiple engine, Euclid, Caterpillar and similar, over 25 yds. and up to 50 yds. struck)

GROUP 17: Rubber-tired earth-moving equipment operator, operating equipment with push-pull system (multiple engine, Euclid, Caterpillar and similar, over 50 cu. yds. struck);

Tandem tractor operator (operating crawler type tractors in tandem - Quad 9 and similar type)

GROUP 18: Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - single engine, up to and including 25 yds. struck)

GROUP 19: Rotex concrete belt operator (or similar types);
Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - single engine,
Caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds.and up to and including 50 cu. yds. struck); Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and

similar types in any combination, excluding compaction units - multiple engine, up to and including 25 yds. struck)

GROUP 20: Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - single engine, over 50 yds. struck); Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps, and similar types in any combination, excluding compaction units - multiple engine, Euclid, Caterpillar and similar, over 25 yds. and up to 50 yds. struck)

GROUP 21: Rubber-tired earth-moving equipment operator, operating in tandem (scrapers, belly dumps and similar types in any combination, excluding compaction units - multiple engine, Euclid, Caterpillar and similar type, over 50 cu. yds. struck)

GROUP 22: Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (single engine, up to and including 25 yds. struck)

GROUP 23: Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (single engine, Caterpillar, Euclid, Athey Wagon and similar types with any and all attachments over 25 yds. and up to and including 50 yds. struck); Rubber-tired earth-moving equipment operator, operating with the tandem

push-pull system (multiple engine, up to and including 25 yds. struck)

GROUP 24: Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (single engine, over 50 yds. struck); Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (multiple engine, Euclid, Caterpillar and similar, over 25 yds. and up to 50 yds. struck)

GROUP 25: Concrete pump operator-truck mounted; Rubber-tired earth-moving equipment operator, operating equipment with the tandem push-pull system (multiple engine, Euclid, Caterpillar and similar type, over 50 cu. yds. struck)

CRANES, PILEDRIVING AND HOISTING EQUIPMENT CLASSIFICATIONS

GROUP 1: Engineer oiler; Fork lift operator (includes loed, lull or similar types)

GROUP 2: Truck crane oiler

GROUP 3: A-frame or winch truck operator; Ross carrier operator (jobsite)

GROUP 4: Bridge-type unloader and turntable operator; Helicopter hoist operator GROUP 5: Hydraulic boom truck; Stinger crane (Austin-Western or similar type); Tugger hoist operator (1 drum)

GROUP 6: Bridge crane operator; Cretor crane operator; Hoist operator (Chicago boom and similar type); Lift mobile operator; Lift slab machine operator (Vagtborg and similar types); Material hoist and/or manlift operator; Polar gantry crane operator; Self Climbing scaffold (or similar type); Shovel, backhoe, dragline, clamshell operator (over 3/4 yd. and up to 5 cu. yds. mrc); Tugger hoist operator

GROUP 7: Pedestal crane operator; Shovel, backhoe, dragline, clamshell operator (over 5 cu. yds. mrc); Tower crane repair; Tugger hoist operator (3 drum)

GROUP 8: Crane operator (up to and including 25 ton capacity); Crawler transporter operator; Derrick barge operator (up to and including 25 ton capacity); Hoist operator, stiff legs, Guy derrick or similar type (up to and including 25 ton capacity); Shovel, backhoe, dragline, clamshell operator (over 7 cu. yds., M.R.C.)

GROUP 9: Crane operator (over 25 tons and up to and including 50 tons mrc); Derrick barge operator (over 25 tons up to and including 50 tons mrc); Highline cableway operator; Hoist operator, stiff legs, Guy derrick or similar type (over 25 tons up to and including 50 tons mrc); K-crane operator; Polar crane operator; Self erecting tower crane operator maximum lifting capacity ten tons

GROUP 10: Crane operator (over 50 tons and up to and including 100 tons mrc); Derrick barge operator (over 50 tons up to and including 100 tons mrc); Hoist operator, stiff legs, Guy derrick or similar type (over 50 tons up to and including 100 tons mrc), Mobile tower crane operator (over 50 tons, up to and including 100 tons M.R.C.); Tower crane operator and tower gantry

GROUP 11: Crane operator (over 100 tons and up to and including 200 tons mrc); Derrick barge operator (over 100 tons up to and including 200 tons mrc); Hoist operator, stiff legs, Guy derrick or similar type (over 100 tons up to and including 200 tons mrc); Mobile tower crane operator (over 100 tons up to and including 200 tons mrc)

GROUP 12: Crane operator (over 200 tons up to and including 300 tons mrc); Derrick barge operator (over 200 tons up to and including 300 tons mrc); Hoist operator, stiff legs, Guy derrick or similar type (over 200 tons, up to and including 300 tons mrc); Mobile tower crane operator (over 200 tons, up to and including 300 tons mrc)

GROUP 13: Crane operator (over 300 tons); Derrick barge operator (over 300 tons); Helicopter pilot; Hoist operator, stiff legs, Guy derrick or similar type (over 300 tons); Mobile tower crane operator (over 300 tons)

TUNNEL CLASSIFICATIONS

GROUP 1: Skiploader (wheel type up to 3/4 yd. without attachment)

GROUP 2: Power-driven jumbo form setter operator

GROUP 3: Dinkey locomotive or motorperson (up to and including 10 tons)

GROUP 4: Bit sharpener; Equipment greaser (grease truck);
Slip form pump operator (power-driven hydraulic lifting
device for concrete forms); Tugger hoist operator (1 drum);
Tunnel locomotive operator (over 10 and up to and including
30 tons)

GROUP 5: Backhoe operator (up to and including 3/4 yd.);
Small Ford, Case or similar; Drill doctor; Grouting machine
operator; Heading shield operator; Heavy-duty repairperson;
Loader operator (Athey, Euclid, Sierra and similar types);
Mucking machine operator (1/4 yd., rubber-tired, rail or
track type); Pneumatic concrete placing machine operator
(Hackley-Presswell or similar type); Pneumatic heading
shield (tunnel); Pumpcrete gun operator; Tractor compressor
drill combination operator; Tugger hoist operator (2 drum);
Tunnel locomotive operator (over 30 tons)

GROUP 6: Heavy Duty Repairman

GROUP 7: Tunnel mole boring machine operator

ENGINEERS ZONES

\$1.00 additional per hour for all of IMPERIAL County and the portions of KERN, RIVERSIDE & SAN BERNARDINO Counties as defined below:

That area within the following Boundary: Begin in San Bernardino County, approximately 3 miles NE of the intersection of I-15 and the California State line at that point which is the NW corner of Section 1, T17N,m R14E, San Bernardino Meridian. Continue W in a straight line to that point which is the SW corner of the northwest guarter of Section 6, T27S, R42E, Mt. Diablo Meridian. Continue North to the intersection with the Inyo County Boundary at that point which is the NE corner of the western half of the northern quarter of Section 6, T25S, R42E, MDM. Continue W along the Inyo and San Bernardino County boundary until the intersection with Kern County, as that point which is the SE corner of Section 34, T24S, R40E, MDM. Continue W along the Inyo and Kern County boundary until the intersection with Tulare County, at that point which is the SW corner of the SE quarter of Section 32, T24S, R37E, MDM. Continue W along the Kern and Tulare County boundary, until that point which is the NW corner of T25S, R32E, MDM. Continue S following R32E lines to the NW corner of T31S, R32E, MDM. Continue W to the NW corner of T31S, R31E, MDM. Continue S to the SW corner of T32S, R31E, MDM. Continue W to SW corner of SE quarter of Section 34, T32S, R30E, MDM. Continue S to SW corner of T11N, R17W, SBM. Continue E along

south boundary of T11N, SBM to SW corner of T11N, R7W, SBM. Continue S to SW corner of T9N, R7W, SBM. Continue E along south boundary of T9N, SBM to SW corner of T9N, R1E, SBM. Continue S along west boundary of R1E, SMB to Riverside County line at the SW corner of T1S, R1E, SBM. Continue E along south boundary of T1s, SBM (Riverside County Line) to SW corner of T1S, R10E, SBM. Continue S along west boundary of R10E, SBM to Imperial County line at the SW corner of T8S, R10E, SBM. Continue W along Imperial and Riverside county line to NW corner of T9S, R9E, SBM. Continue S along the boundary between Imperial and San Diego Counties, along the west edge of R9E, SBM to the south boundary of Imperial County/California state line. Follow the California state line west to Arizona state line, then north to Nevada state line, then continuing NW back to start at the point which is the NW corner of Section 1, T17N, R14E, SBM

\$1.00 additional per hour for portions of SAN LUIS OBISPO, KERN, SANTA BARBARA & VENTURA as defined below:

That area within the following Boundary: Begin approximately 5 miles north of the community of Cholame, on the Monterey County and San Luis Obispo County boundary at the NW corner of T25S, R16E, Mt. Diablo Meridian. Continue south along the west side of R16E to the SW corner of T30S, R16E, MDM. Continue E to SW corner of T30S, R17E, MDM. Continue S to SW corner of T31S, R17E, MDM. Continue E to SW corner of T31S, R18E, MDM.

Continue S along West side of R18E, MDM as it crosses into San Bernardino Meridian numbering area and becomes R30W. Follow

the west side of R30W, SBM to the SW corner of T9N, R30W, SBM. Continue E along the south edge of T9N, SBM to the Santa Barbara County and Ventura County boundary at that point whch is the SW corner of Section 34.T9N, R24W, SBM, continue S along the Ventura County line to that point which is the SW corner of the SE quarter of Section 32, T7N, R24W, SBM. Continue E along the south edge of T7N, SBM to the SE corner to T7N, R21W, SBM. Continue N along East side of R21W, SBM to Ventura County and Kern County boundary at the NE corner of T8N, R21W. Continue W along the Ventura County and Kern County boundary to the SE corner of T9N, R21W. Continue North along the East edge of R21W, SBM to the NE corner of T12N, R21W, SBM. Continue West along the north edge of T12N, SBM to the SE corner of T32S, R21E, MDM. [T12N SBM is a think strip between T11N SBM and T32S MDM]. Continue North along the East side of R21E, MDM to the Kings County and Kern County border at the NE corner of T25S, R21E, MDM, continue West along the Kings County and Kern County Boundary until the intersection of San Luis Obispo County. Continue west along the Kings County and San Luis Obispo County boundary until the intersection with Monterey County. Continue West along the Monterey County and San Luis Obispo County boundary to the beginning point at the NW corner of T25S, R16E, MDM.

\$2.00 additional per hour for INYO and MONO Counties and the Northern portion of SAN BERNARDINO County as defined below:

That area within the following Boundary: Begin at the

intersection of the northern boundary of Mono County and the California state line at the point which is the center of Section 17, T10N, R22E, Mt. Diablo Meridian. Continue S then SE along the entire western boundary of Mono County, until it reaches Inyo County at the point which is the NE corner of the Western half of the NW quarter of Section 2, T8S, R29E, MDM. Continue SSE along the entire western boundary of Inyo County, until the intersection with Kern County at the point which is the SW corner of the SE 1/4 of Section 32, T24S, R37E, MDM. Continue E along the Inyo and Kern County boundary until the intersection with San Bernardino County at that point which is the SE corner of section 34, T24S, R40E, MDM. Continue E along the Inyo and San Bernardino County boundary until the point which is the NE corner of the Western half of the NW quarter of Section 6, T25S, R42E, MDM. Continue S to that point which is the SW corner of the NW quarter of Section 6, T27S, R42E, MDM. Continue E in a straight line to the California and Nevada state border at the point which is the NW corner of Section 1, T17N, R14E, San Bernardino Meridian. Then continue NW along the state line to the starting point, which is the center of Section 18, T10N, R22E, MDM.

REMAINING AREA NOT DEFINED ABOVE RECIEVES BASE RATE

ENGI0012-004 08/01/2023

Rates Fringes

OPERATOR: Power Equipment

(DREDGING)

(1)	Leverman	\$ 64.10	34.60
(1)	Leverman	5 04.10	54.00

(2) Dredge dozer......\$ 58.13 34.60

(3) Deckmate.....\$ 58.02 34.60

(4) Winch operator (stern

winch on dredge)......\$ 57.47 34.60

(5) Fireman-Oiler,

Deckhand, Bargeman,

Leveehand......\$ 56.93 34.60

(6) Barge Mate.....\$ 57.54 34.60

IRON0433-006 01/01/2024

Rates Fringes

IRONWORKER

Fence Erector......\$ 42.53 26.26

Ornamental, Reinforcing

and Structural......\$ 47.45 34.90

PREMIUM PAY:

\$9.00 additional per hour at the following locations:

China Lake Naval Test Station, Chocolate Mountains Naval

Reserve-Niland,

Edwards AFB, Fort Irwin Military Station, Fort Irwin Training

Center-Goldstone, San Clemente Island, San Nicholas Island,
Susanville Federal Prison, 29 Palms - Marine Corps, U.S. Marine
Base - Barstow, U.S. Naval Air Facility - Sealey, Vandenberg AFB
Army Defense Language Institute - Monterey, Fallon Air Base,
Naval Post Graduate School - Monterey, Yermo Marine Corps
Logistics Center

Port Hueneme, Port Mugu, U.S. Coast Guard Station - Two Rock

LABO0300-001 07/01/2022

Rates Fringes

Brick Tender.....\$ 37.32 21.45

LABO0300-003 07/01/2022

Rates Fringes

LABORER (TUNNEL)

GROUP 1\$ 45.	68	23.30
GROUP 2\$ 46.	00	23.30
GROUP 3\$ 46.	46	23.30
GROUP 4\$ 47.	15	23.30
LABORER		
GROUP 1\$ 36.	39	21.04
GROUP 2\$ 36.	94 2	21.04
GROUP 3\$ 37.	49	21.04

GROUP 4	\$ 39.04	21.04
GROUP 5	\$ 39.39	21.04

LABORER CLASSIFICATIONS

GROUP 1: Cleaning and handling of panel forms; Concrete screeding for rough strike-off; Concrete, water curing; Demolition laborer, the cleaning of brick if performed by a worker performing any other phase of demolition work, and the cleaning of lumber; Fire watcher, limber, brush loader, piler and debris handler; Flag person; Gas, oil and/or water pipeline laborer; Laborer, asphalt-rubber material loader; Laborer, general or construction; Laborer, general clean-up; Laborer, landscaping; Laborer, jetting; Laborer, temporary water and air lines; Material hose operator (walls, slabs, floors and decks); Plugging, filling of shee bolt holes; Dry packing of concrete; Railroad maintenance, repair track person and road beds; Streetcar and railroad construction track laborers; Rigging and signaling; Scaler; Slip form raiser; Tar and mortar; Tool crib or tool house laborer; Traffic control by any method; Window cleaner; Wire mesh pulling - all concrete pouring operations

GROUP 2: Asphalt shoveler; Cement dumper (on 1 yd. or larger mixer and handling bulk cement); Cesspool digger and installer; Chucktender; Chute handler, pouring concrete, the handling of the chute from readymix trucks, such as walls, slabs, decks, floors, foundation, footings, curbs, gutters and sidewalks; Concrete curer, impervious membrane

and form oiler; Cutting torch operator (demolition); Fine grader, highways and street paving, airport, runways and similar type heavy construction; Gas, oil and/or water pipeline wrapper - pot tender and form person; Guinea chaser; Headerboard person - asphalt; Laborer, packing rod steel and pans; Membrane vapor barrier installer; Power broom sweeper (small); Riprap stonepaver, placing stone or wet sacked concrete; Roto scraper and tiller; Sandblaster (pot tender); Septic tank digger and installer(lead); Tank scaler and cleaner; Tree climber, faller, chain saw operator, Pittsburgh chipper and similar type brush shredder; Underground laborer, including caisson bellower

GROUP 3: Buggymobile person; Concrete cutting torch; Concrete pile cutter; Driller, jackhammer, 2-1/2 ft. drill steel or longer; Dri-pak-it machine; Gas, oil and/or water pipeline wrapper, 6-in. pipe and over, by any method, inside and out; High scaler (including drilling of same); Hydro seeder and similar type; Impact wrench multi-plate; Kettle person, pot person and workers applying asphalt, lay-kold, creosote, lime caustic and similar type materials (""applying"" means applying, dipping, brushing or handling of such materials for pipe wrapping and waterproofing); Operator of pneumatic, gas, electric tools, vibrating machine, pavement breaker, air blasting, come-alongs, and similar mechanical tools not separately classified herein; Pipelayer's backup person, coating, grouting, making of joints, sealing, caulking, diapering and including rubber gasket joints, pointing and any and all other services;

Rock slinger; Rotary scarifier or multiple head concrete chipping scarifier; Steel headerboard and guideline setter; Tamper, Barko, Wacker and similar type; Trenching machine, hand-propelled

GROUP 4: Asphalt raker, lute person, ironer, asphalt dump person, and asphalt spreader boxes (all types); Concrete core cutter (walls, floors or ceilings), grinder or sander; Concrete saw person, cutting walls or flat work, scoring old or new concrete; Cribber, shorer, lagging, sheeting and trench bracing, hand-guided lagging hammer; Head rock slinger; Laborer, asphalt-rubber distributor boot person; Laser beam in connection with laborers' work; Oversize concrete vibrator operator, 70 lbs. and over; Pipelayer performing all services in the laying and installation of pipe from the point of receiving pipe in the ditch until completion of operation, including any and all forms of tubular material, whether pipe, metallic or non-metallic, conduit and any other stationary type of tubular device used for the conveying of any substance or element, whether water, sewage, solid gas, air, or other product whatsoever and without regard to the nature of material from which the tubular material is fabricated; No-joint pipe and stripping of same; Prefabricated manhole installer; Sandblaster (nozzle person), water blasting, Porta Shot-Blast

GROUP 5: Blaster powder, all work of loading holes, placing and blasting of all powder and explosives of whatever type, regardless of method used for such loading and placing; Driller: All power drills, excluding jackhammer, whether core, diamond, wagon, track, multiple unit, and any and all other types of mechanical drills without regard to the form of motive power; Toxic waste removal

TUNNEL LABORER CLASSIFICATIONS

GROUP 1: Batch plant laborer; Changehouse person; Dump person; Dump person (outside); Swamper (brake person and switch person on tunnel work); Tunnel materials handling person; Nipper; Pot tender, using mastic or other materials (for example, but not by way of limitation, shotcrete, etc.)

GROUP 2: Chucktender, cabletender; Loading and unloading agitator cars;; Vibrator person, jack hammer, pneumatic tools (except driller); Bull gang mucker, track person; Concrete crew, including rodder and spreader

GROUP 3: Blaster, driller, powder person; Chemical grout jet person; Cherry picker person; Grout gun person; Grout mixer person; Grout pump person; Jackleg miner; Jumbo person; Kemper and other pneumatic concrete placer operator; Miner, tunnel (hand or machine); Nozzle person; Operating of troweling and/or grouting machines; Powder person (primer house); Primer person; Sandblaster; Shotcrete person; Steel form raiser and setter; Timber person, retimber person, wood or steel; Tunnel Concrete finisher

GROUP 4: Diamond driller; Sandblaster; Shaft and raise work

.....

LABO0300-005 08/01/2022

Rates Fringes

Asbestos Removal Laborer......\$ 39.23 23.28

SCOPE OF WORK: Includes site mobilization, initial site cleanup, site preparation, removal of asbestos-containing material and toxic waste, encapsulation, enclosure and disposal of asbestos- containing materials and toxic waste by hand or with equipment or machinery; scaffolding, fabrication of temporary wooden barriers and assembly of decontamination stations.

LABO0345-001 07/01/2022

Rates Fringes

LABORER (GUNITE)

GROUP 1	\$ 48.50	21.37
GROUP 2	\$ 47.55	21.37
GROUP 3	\$ 44.01	21.37

FOOTNOTE: GUNITE PREMIUM PAY: Workers working from a Bosn'n's Chair or suspended from a rope or cable shall receive 40 cents per hour above the foregoing applicable

classification rates. Workers doing gunite and/or shotcrete work in a tunnel shall receive 35 cents per hour above the foregoing applicable classification rates, paid on a portal-to-portal basis. Any work performed on, in or above any smoke stack, silo, storage elevator or similar type of structure, when such structure is in excess of 75'-0"" above base level and which work must be performed in whole or in part more than 75'-0"" above base level, that work performed above the 75'-0"" level shall be compensated for at 35 cents per hour above the applicable classification wage rate.

GUNITE LABORER CLASSIFICATIONS

GROUP 1: Rodmen, Nozzlemen

GROUP 2: Gunmen

GROUP 3: Reboundmen

LABO1184-001 07/01/2022

Rates Fringes

Laborers: (HORIZONTAL

DIRECTIONAL DRILLING)

(1) Drilling Crew Laborer...\$ 40.69 18.25

(2) Vehicle Operator/Hauler.\$ 40.86 18.25

(3) Horizontal Directional

Drill Operator......\$ 42.71 18.25

(4) Electronic Tracking

Locator.....\$ 44.71 18.25

Laborers: (STRIPING/SLURRY

SEAL)

GROUP 1	\$ 41.90	21.32
GROUP 2	\$ 43.20	21.32
GROUP 3	\$ 45.21	21.32

LABORERS - STRIPING CLASSIFICATIONS

GROUP 4.....\$ 46.95

GROUP 1: Protective coating, pavement sealing, including repair and filling of cracks by any method on any surface in parking lots, game courts and playgrounds; carstops; operation of all related machinery and equipment; equipment repair technician

21.32

GROUP 2: Traffic surface abrasive blaster; pot tender - removal of all traffic lines and markings by any method (sandblasting, waterblasting, grinding, etc.) and preparation of surface for coatings. Traffic control person: controlling and directing traffic through both conventional and moving lane closures; operation of all related machinery and equipment

GROUP 3: Traffic delineating device applicator: Layout and application of pavement markers, delineating signs, rumble

and traffic bars, adhesives, guide markers, other traffic delineating devices including traffic control. This category includes all traffic related surface preparation (sandblasting, waterblasting, grinding) as part of the application process. Traffic protective delineating system installer: removes, relocates, installs, permanently affixed roadside and parking delineation barricades, fencing, cable anchor, guard rail, reference signs, monument markers; operation of all related machinery and equipment; power broom sweeper

GROUP 4: Striper: layout and application of traffic stripes and markings; hot thermo plastic; tape traffic stripes and markings, including traffic control; operation of all related machinery and equipment

LABO1414-001 08/03/2022

Rates Fringes

LABORER

PLASTER CLEAN-UP LABORER....\$ 38.92 23.32 PLASTER TENDER.......\$ 41.47 23.32

Work on a swing stage scaffold: \$1.00 per hour additional.

PAIN0036-001 07/01/2023

Rates Fringes

Painters: (Including Lead

Abatement)

(1) Repaint (excludes San

Diego County).....\$ 29.59 17.12

(2) All Other Work.......\$ 38.52 18.64

REPAINT of any previously painted structure. Exceptions: work involving the aerospace industry, breweries, commercial recreational facilities, hotels which operate commercial establishments as part of hotel service, and sports facilities.

PAIN0036-006 09/01/2022

Rates Fringes

DRYWALL FINISHER/TAPER

Antelope Valley North of

the following Boundary:

Kern County Line to Hwy.

#5, South on Hwy. #5 to

Hwy. N2, East on N2 to

Palmdale Blvd., to Hwy.

#14, South to Hwy. #18,

East to Hwy. #395......\$ 42.15 23.52

Remainder of Los Angeles

County				
PAIN0036-015 02				
	Rates	Fringes		
GLAZIER	\$ 4	3.45	23.39	
FOOTNOTE: Add from the third (3 hour for work or stage or any sus	Brd) floor a	nd up Ad	ditional \$1.7	25 per om a swing
PAIN1247-002 0:				
	Rates	Fringes		
SOFT FLOOR LAYE	ER	\$ 41.60	16.38	}
PLAS0200-009 0	8/03/2022			
	Rates	Fringes		
PLASTERER	\$	47.37	19.64	
PLAS0500-002 0	7/01/2020			

Rates Fringes

25.91

PLUM0016-001 09/01/2023

Rates Fringes

PLUMBER/PIPEFITTER

Work ONLY on new additions

and remodeling of bars,

restaurant, stores and

commercial buildings not

to exceed 5,000 sq. ft. of

floor space.....\$ 53.51 25.28

Work ONLY on strip malls,

light commercial, tenant

improvement and remodel

work.....\$ 42.49 23.86

All other work except work

on new additions and

remodeling of bars,

restaurant, stores and

commercial buildings not

to exceed 5,000 sq. ft. of

floor space and work on

strip malls, light

commercial, tenant

improvement and remodel

work.....\$ 55.18 26.26

PLUM0345-001 09/01/2023
Rates Fringes
PLUMBER
Landscape/Irrigation Fitter.\$ 40.20 25.90
Sewer & Storm Drain Work\$ 44.29 23.28
ROOF0036-002 08/13/2023
Rates Fringes
ROOFER\$ 46.02 20.05
FOOTNOTE: Pitch premium: Work on which employees are exposed
to pitch fumes or required to handle pitch, pitch base or
pitch impregnated products, or any material containing coal
tar pitch, the entire roofing crew shall receive \$1.75 per
hour ""pitch premium"" pay.
SFCA0669-013 01/01/2024

DOES NOT INCLUDE THE CITY OF POMONA, CATALINA ISLAND, AND THAT PART OF LOS ANGELES COUNTY WITHIN 25 MILES OF THE CITY LIMITS OF LOS ANGELES:

SPRINKLER FITTER\$ 45.31 27.91	
SFCA0709-005 09/01/2023	
THE CITY OF POMOMA, CATALINA ISLAND, AND THAT PART	T OF LOS
ANGELES COUNTY WITHIN 25 MILES OF THE CITY LIMITS C	OF LOS
ANGELES:	
Rates Fringes	
SPRINKLER FITTER (Fire)\$ 54.29 32.00	
SHEE0105-002 07/01/2023	
LOS ANGELES (South of a straight line between Gorman ar	nd Big
Pines including Catalina Island)	
Rates Fringes	
SHEET METAL WORKER	
(1) Light Commercial: Work	
on general sheet metal and	
heating and AC up to 4000	
sq ft\$ 33.10 10.56	
(2) Modernization :	

Fringes

Rates

Excluding New Construction

- Under 5000 sq. ft. Does

not include modification,

upgrades, energy

management, or

conservation improvements

of central heating and AC

equpment.....\$ 33.10 10.56

SHEE0105-003 01/01/2024

LOS ANGELES (South of a straight line drawn between Gorman and Big Pines) and Catalina Island, INYO, KERN (Northeast part, East of Hwy 395), MONO ORANGE, RIVERSIDE, AND SAN BERNARDINO COUNTIES

Rates Fringes

SHEET METAL WORKER

(1) Commercial - New

Construction and Remodel

work......\$ 56.95 30.04

(2) Industrial work

including air pollution

control systems, noise

abatement, hand rails,

guard rails, excluding

aritechtural sheet metal

work, excluding A-C,

heating, ventilating

systems for human comfort...\$ 56.95 30.04

SHEE0105-004 07/01/2023

KERN (Excluding portion East of Hwy 395) & LOS ANGELES (North of a straight line drawn between Gorman and Big Pines including Cities of Lancaster and Palmdale) COUNTIES

Rates Fringes

SHEET METAL WORKER......\$ 45.98 29.24

TEAM0011-002 07/01/2023

Rates Fringes

TRUCK DRIVER

G	ROUP	1	.\$ 38.19	33.69
G	ROUP	2	.\$ 38.34	33.69
G	ROUP	3	.\$ 38.47	33.69
G	ROUP	4	.\$ 38.66	33.69
G	ROUP	5	.\$ 38.69	33.69
G	ROUP	6	.\$ 38.72	33.69
G	ROUP	7	.\$ 38.97	33.69
G	ROUP	8	.\$ 39.22	33.69
G	ROUP	9	.\$ 39.42	33.69
G	ROUP	10	\$ 39.72	33.69

GROUP 11.....\$ 40.22 33.69

GROUP 12.....\$ 40.65 33.69

WORK ON ALL MILITARY BASES:

PREMIUM PAY: \$3.00 per hour additional.

[29 palms Marine Base, Camp Roberts, China Lake, Edwards AFB,

El Centro Naval Facility, Fort Irwin, Marine Corps

Logistics Base at Nebo & Yermo, Mountain Warfare Training

Center, Bridgeport, Point Arguello, Point Conception,

Vandenberg AFB]

TRUCK DRIVERS CLASSIFICATIONS

GROUP 1: Truck driver

GROUP 2: Driver of vehicle or combination of vehicles - 2 axles; Traffic control pilot car excluding moving heavy equipment permit load; Truck mounted broom

GROUP 3: Driver of vehicle or combination of vehicles - 3 axles; Boot person; Cement mason distribution truck; Fuel truck driver; Water truck - 2 axle; Dump truck, less than 16 yds. water level; Erosion control driver

GROUP 4: Driver of transit mix truck, under 3 yds.; Dumpcrete truck, less than 6-1/2 yds. water level

GROUP 5: Water truck, 3 or more axles; Truck greaser and tire person (\$0.50 additional for tire person); Pipeline and utility working truck driver, including winch truck and plastic fusion, limited to pipeline and utility work; Slurry truck driver

GROUP 6: Transit mix truck, 3 yds. or more; Dumpcrete truck, 6-1/2 yds. water level and over; Vehicle or combination of vehicles - 4 or more axles; Oil spreader truck; Dump truck, 16 yds. to 25 yds. water level

GROUP 7: A Frame, Swedish crane or similar; Forklift driver; Ross carrier driver

GROUP 8: Dump truck, 25 yds. to 49 yds. water level; Truck repair person; Water pull - single engine; Welder

GROUP 9: Truck repair person/welder; Low bed driver, 9 axles or over

GROUP 10: Dump truck - 50 yds. or more water level; Water pull - single engine with attachment

GROUP 11: Water pull - twin engine; Water pull - twin engine with attachments; Winch truck driver - \$1.25 additional when operating winch or similar special attachments

GROUP 12: Boom Truck 17K and above

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at

https://www.dol.gov/agencies/whd/government-contracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (iii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example:

PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1,

2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the ""SU"" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate

that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

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WAGE DETERMINATION APPEALS PROCESS

- 1.) Has there been an initial decision in the matter? This can be:
- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour National Office because National Office has responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage

payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board

U.S. Department of Labor

200 Constitution Avenue, N.W.

Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

END OF GENERAL DECISION"

SANTA CLARITA VALLEY WATER AGENCY NOTICE TO PLANHOLDERS

ADDENDUM NO. 4

Owner:	Santa Clarita Valley Water Agency 26515 Summit Circle Santa Clarita, California 91350			
Project:	T7, U4, U6 Wells PFAS Treatment, Saugus 1 and 2 Wells VOC Treatment and Disinfection Facility Project			
То:	All Planholders			
From:	Hazen and Sawyer			
Bid Date:	March 8, 2024 at 5:00 PM (Pacific Time)			
Wells PFAS Treatmed dated December 202 form a part of the	en to prospective bidders that the Plans and Specifications for T7, U4, U6 ent, Saugus 1 and 2 Wells VOC Treatment and Disinfection Facility Project 23, have been modified as hereinafter set forth. This Addendum No. 4 shall Contract Documents and the modifications indicated herein shall take e original Contract Documents, as applicable. All other provisions shall			
Bidder shall acknowled shall be attached to t	edge receipt of this Addendum No. 4 in the space below. This page AD 4-1 he Bid.			
By: Hazen and Sa	awyer PROFESSION			
Date: 2/15/20	No. C81831			
ACKNOWLEDGEME	ENT TO BE ATTACHED TO SEALED BID.			
I have received Adde	endum No. 4 (Pages AD 4-1 through AD 4-10).			
Contractor:				
Signature:				
Printed Name:				
Title:				
Date:				

T&U Wells PFAS Treatment, Saugus 1 and 2 VOC Treatment and Disinfection Facility

GENERAL: The following changes, additions, or deletions shall be made to the following documents as noted and shall take precedence over the original Contract Documents. All other provisions remain the same.

Addendum 4, ITEM 1. SPECIFICATION DIVISION 13, SECTION 13150 – ON-SITE

SODIUM HYPOCHLORITE GENERATION AND FEED SYSTEM,

PART 2 - PRODUCTS, 2.04.B.2, Page 11

DELETE in its entirety and REPLACE with the following:

"2. The brine metering pump shall be a diaphragm pump."

Addendum 4, ITEM 2. <u>SPECIFICATION DIVISION 13, SECTION 13150 – ON-SITE</u>

SODIUM HYPOCHLORITE GENERATION AND FEED SYSTEM,

PART 2 - PRODUCTS, 2.05.B.1, Page 12

DELETE in its entirety and REPLACE with the following:

"1. Enclosure shall be NEMA 4, carbon steel with coating(s) for

corrosion resistance with forced air cooling."

Addendum 4, ITEM 3. <u>SPECIFICATION DIVISION 13, SECTION 13150 – ON-SITE</u>

SODIUM HYPOCHLORITE GENERATION AND FEED SYSTEM,

PART 2 - PRODUCTS, 2.08.A.4, Page 17

DELETE in its entirety and REPLACE with the following:

"4. Each blower shall be sized with adequate air flow capacity to maintain the concentration of Hydrogen gas in the tank to below

1% in air."

Addendum 4, ITEM 4. SPECIFICATION DIVISION 13, SECTION 13150 – ON-SITE

SODIUM HYPOCHLORITE GENERATION AND FEED SYSTEM.

PART 2 - PRODUCTS, 2.09.B.1, Page 22

DELETE in its entirety and REPLACE with the following:

"1. The generator control panel enclosure shall be NEMA 4

painted carbon steel with lockable disconnect."

Addendum 4, ITEM 5. SPECIFICATION DIVISION 13, SECTION 13150 – ON-SITE

SODIUM HYPOCHLORITE GENERATION AND FEED SYSTEM,

PART 3 – EXECUTION, 3.05.C.1.c, Page 24

DELETE in its entirety and REPLACE with the following:

"c. Samples shall be analyzed for available chlorine concentration

by chemical titration."

Addendum 4, ITEM 6. <u>SPECIFICATION DIVISION 13, SECTION 13204 – GAC SYSTEM, PART 2 – PRODUCTS, 2.02.B, Page 5</u>

DELETE in its entirety and REPLACE with the following:

"4. Carbon slurry out – 4 inch"

Addendum 4, ITEM 7. <u>SPECIFICATION DIVISION 13, SECTION 13204 – GAC</u> SYSTEM, PART 2 – PRODUCTS, 2.02.F, Page 6

DELETE in its entirety and REPLACE with the following:

"F. Pressure Vessel Ports and Nozzles: All port and nozzle connections shall be flush on the inside of the shell and provided with 150-pound full face flanges on the outside. Steel flanges shall conform to AWWA C207 for steel ring flanges, Class D. Bolts and nuts for flanges shall be hot dip galvanized grade 5, ASTM A307 grade B zinc plated, or HDG A325. Gaskets shall be ring face, EPDM rubber, 1/8inch thick, and NSF-61 certified."

Addendum 4, ITEM 8. <u>SPECIFICATION DIVISION 13, SECTION 13204 – GAC SYSTEM, PART 2 – PRODUCTS, 2.02.I, Page 6</u>

DELETE in its entirety the first sentence and REPLACE with the following:

"I. Underdrain Collection System: Provide one of the following two configurations:"

Addendum 4, ITEM 9. SPECIFICATION DIVISION 13, SECTION 13204 – GAC SYSTEM, PART 2 – PRODUCTS, 2.02.J, Page 7

DELETE in its entirety and REPLACE with the following:

"J. GAC Transfer Piping: GAC fill and GAC drain piping and the shut-off valve and fittings shall be Type 316L stainless steel as specified in Section 15012. 316L Stainless steel ball valves for GAC fill and drain lines shall be 4-inch diameter Class 150 full port valves with 316L flanges and stems, and with TFE seats and seals."

Addendum 4, ITEM 10. <u>SPECIFICATION DIVISION 13, SECTION 13204 – GAC</u> SYSTEM, PART 2 – PRODUCTS, 2.02.K, Page 7

DELETE in its entirety and REPLACE with the following:

"K. Transfer Hose Connectors: The GAC transfer piping shall be fitted with hose connectors such that GAC transfer to and from the pressure vessels can be facilitated with transfer hoses. These connectors shall be 4-inch quick disconnect adapters constructed of Type 316 stainless steel as manufactured by OPW Division of Dover Corporation as Kamlock Part No. 633-F, or equal."

Addendum 4, ITEM 11.

<u>SPECIFICATION DIVISION 13, SECTION 13204 – GAC SYSTEM, PART 2 – PRODUCTS, 2.02.L, Page 7</u>

DELETE in its entirety and REPLACE with the following:

"L. Flush Connections: One flush connection shall be provided on each GAC fill and GAC drain line. Flush connections shall consist of a short section of 3/4-inch pipe and a 3/4-inch full port ball valve and 3/4-inch quick disconnect adapter to match air hose fittings."

Addendum 4, ITEM 12.

<u>SPECIFICATION DIVISION 13, SECTION 13204 – GAC SYSTEM, PART 2 – PRODUCTS, 2.02.P, Page 7</u>

DELETE in its entirety and REPLACE with the following:

"P. Air Release Valve: A minimum 1-inch combination air release valve shall be provided per vessel inlet piping as specified in Section 15113 – Air Valves for Water Service. Each combination air release valve should include a 1" release drain line routed vertically to ground."

Addendum 4, ITEM 13.

<u>SPECIFICATION DIVISION 13, SECTION 13204 – GAC</u> SYSTEM, PART 2 – PRODUCTS, 2.02.Q, Page 7

DELETE in its entirety and REPLACE with the following:

"Q. Butterfly Valves: Butterfly valves shall be nondirectional, wafer type, lugged type, or short body, flanged type, and rating for minimum working differential pressure across the valve disc shall be 125 psi. Flanged ends shall be Class 150, ANSI B16.1. Valve stems shall be Type 416 or 316 stainless steel. Materials of construction shall be as follows:

Component	<u>Material</u>	Specification
Body	Cast iron or	ASTM A48, Class 20,
	Ductile iron	ASTM A 126, Class B; or
		ASTM A 536, Grade 54-45-
Discs	Stainless steel	ASTM B 148, ASTM A 536,
		Grade 65-45-12
Seat material	EPDM	

Addendum 4, ITEM 14.

<u>SPECIFICATION DIVISION 13, SECTION 13204 – GAC SYSTEM, PART 2 – PRODUCTS, 2.02.R, Page 7</u>

DELETE in its entirety and REPLACE with the following:

"R. Pressure Relief: pressure relief valves shall be designed to protect against overtemperature expansion while isolated from the system and from extreme system pressure excursions. The pressure relief system shall consist of one or more pressure-relief valves with pressure switch sized to maintain a pressure less than the maximum allowable working pressure at a flow rate of 1,100 gpm. Valve shall be ANSI Class 150, ductile iron body, and bronze main valve trim. Valve shall be Cla-Val. Clayton 50 01 BKH, or equal."

Addendum 4, ITEM 15.

<u>SPECIFICATION DIVISION 13, SECTION 13204 – GAC</u> SYSTEM, PART 2 – PRODUCTS, 2.02.U, Page 8

DELETE in its entirety and REPLACE with the following:

- "U. Sampling Ports: Unless indicated otherwise, pressure vessels shall be outfitted with ½" 316 stainless steel tubing sampling ports in the locations listed below. Sample ports shall include dual ½" Type 316 stainless steel ball valves. Sample port discharge tubing shall be turned downward and extend down to three feet above finished floor.
- 1. Provide three 2-inch flanged nozzles at the 25%, 50%, and 75% depth of the IX media. Equip each nozzle with a ¾-inch 316 stainless steel sample probe welded to and penetrating a 2-inch carbon steel blind flange mounted on the nozzle. The probes shall extend horizontally approximately 12 inches into the IX and be capped with a stainless steel wedge wire screen sized to retain the IX. A 316 stainless steel full port ball valve shall be attached to the sample probe and capped with a blind flange.
- 2. GAC inlet to each pressure vessel
- 3. GAC treated water from each pressure vessel, on the section of pipe connecting each vessel to the valve tree

Addendum 4, ITEM 16.

SPECIFICATION DIVISION 13, SECTION 13204 – GAC SYSTEM, PART 2 – PRODUCTS, 2.02.W, Page 8

ADD the following:

"W. Provide restrained flanged couplings at the influent pipe connections from the valve manifold to the GAC pressure vessels per the drawings."

Addendum 4, ITEM 17. <u>SPECIFICATION DIVISION 13, SECTION 13204 – GAC</u> SYSTEM, PART 2 – PRODUCTS, 2.02.X, Page 8

ADD the following:

- "X. Miscellaneous Piping and Fittings:
 - 1. Piping Larger than Two Inches
 - a. Unless otherwise specified, piping shall be Schedule 40 carbon steel conforming to ASTM A 53, Grade B, Type E or S.
 - b. Fittings shall be flanged or welded.
 - 2. Piping 2 Inches and Smaller
 - Unless otherwise specified, piping shall be Schedule 40 carbon steel conforming to ASTM A 53, Grade B, Type E or S., or Schedule 10 Stainless Steel 316 piping.
 - Fittings shall be screwed, welded, or flanged."

Addendum 4, ITEM 18. <u>SPECIFICATION DIVISION 13, SECTION 13204 – GAC</u> SYSTEM, PART 2 – PRODUCTS, 2.02.Y, Page 8

ADD the following:

- "Y. Miscellaneous Fittings
 - 1. Threaded fittings shall be Sch 40, conforming to ANSI B16.3 or forged steel fittings conforming to ANSI 16.11.
 - Butt-welded steel fittings shall be carbon steel pipe of the same wall thickness as adjoining pipes conforming to ASTM 234 WPB and ANSI B16.9."

Addendum 4, ITEM 19. <u>SPECIFICATION DIVISION 13, SECTION 13206 – ION</u> EXCHANGE SYSTEM, PART 2 – PRODUCTS, 2.3.C, Page 6

DELETE in its entirety and REPLACE with the following:

"C. Hose Connections: Provide 4-inch diameter 316SS camlock quick connects."

Addendum 4, ITEM 20. SPECIFICATION DIVISION 13, SECTION 13206 – ION EXCHANGE SYSTEM, PART 2 – PRODUCTS, 2.4.D, Page 7

DELETE in its entirety and REPLACE with the following:

"D. All piping and valve interiors shall be coated per Specification Section 09960, System 5M. Exterior coating shall be per information provided in Appendix J." Addendum 4, ITEM 21.

<u>SPECIFICATION DIVISION 13, SECTION 13206 – ION</u> EXCHANGE SYSTEM, PART 2 – PRODUCTS, 2.6.C.2, Page 8

DELETE table in its entirety and REPLACE with the following:

"2. Butterfly Valves: Butterfly valves shall be nondirectional, wafer type, lugged type, or short body, flanged type, and rating for minimum working differential pressure across the valve disc shall be 200 psi. Flanged ends shall be Class 150, ANSI B16.1. Valve stems shall be Type 416 or 316 stainless steel. Materials of construction shall be as follows:

Component	<u>Material</u>	<u>Specification</u>
Body	Cast iron or	ASTM A48, Class 20,
	Ductile iron	ASTM A 126, Class B; or
		ASTM A 536, Grade 54-45-
Discs	Stainless steel	ASTM B 148, ASTM A 536,
		Grade 65-45-12
Seat material	EPDM	

Addendum 4, ITEM 22.

<u>SPECIFICATION DIVISION 13, SECTION 13206 - ION</u> <u>EXCHANGE SYSTEM, PART 2 - PRODUCTS, 2.6.C.4, Page 9</u>

DELETE in its entirety and REPLACE with the following:

"4. Combination Air Valves / Air Release Valves: Shall be provided per Specification 15113. A minimum 1" combination valve shall be supplied on top of each of the IX vessels as shown on the drawings. A minimum 1" air release valve shall be provided per vessel inlet piping as shown on the drawings. Vent line from valves shall be piped to convenient location near the front of the vessel with a shut off valve.

Addendum 4, ITEM 23. SPECIFICATION DIVISION 13, SECTION 13206 – ION EXCHANGE SYSTEM, PART 2 – PRODUCTS, 2.6.C.5, Page 9

DELETE in its entirety and REPLACE with the following:

- "5. Pressure Relief: Exchange vessel pressure relief shall be designed to protect against overtemperature expansion while isolated from the system and from extreme system pressure excursions. The pressure relief system shall consist of:
 - a. Each vessel influent line shall be provided with a 4" pressure relief valve with pressure switch.
 - Valve shall be ANSI Class 150, ductile iron body, and bronze main valve trim. Valve shall be Cla-Val. Clayton 50 01 BKH, or equal.

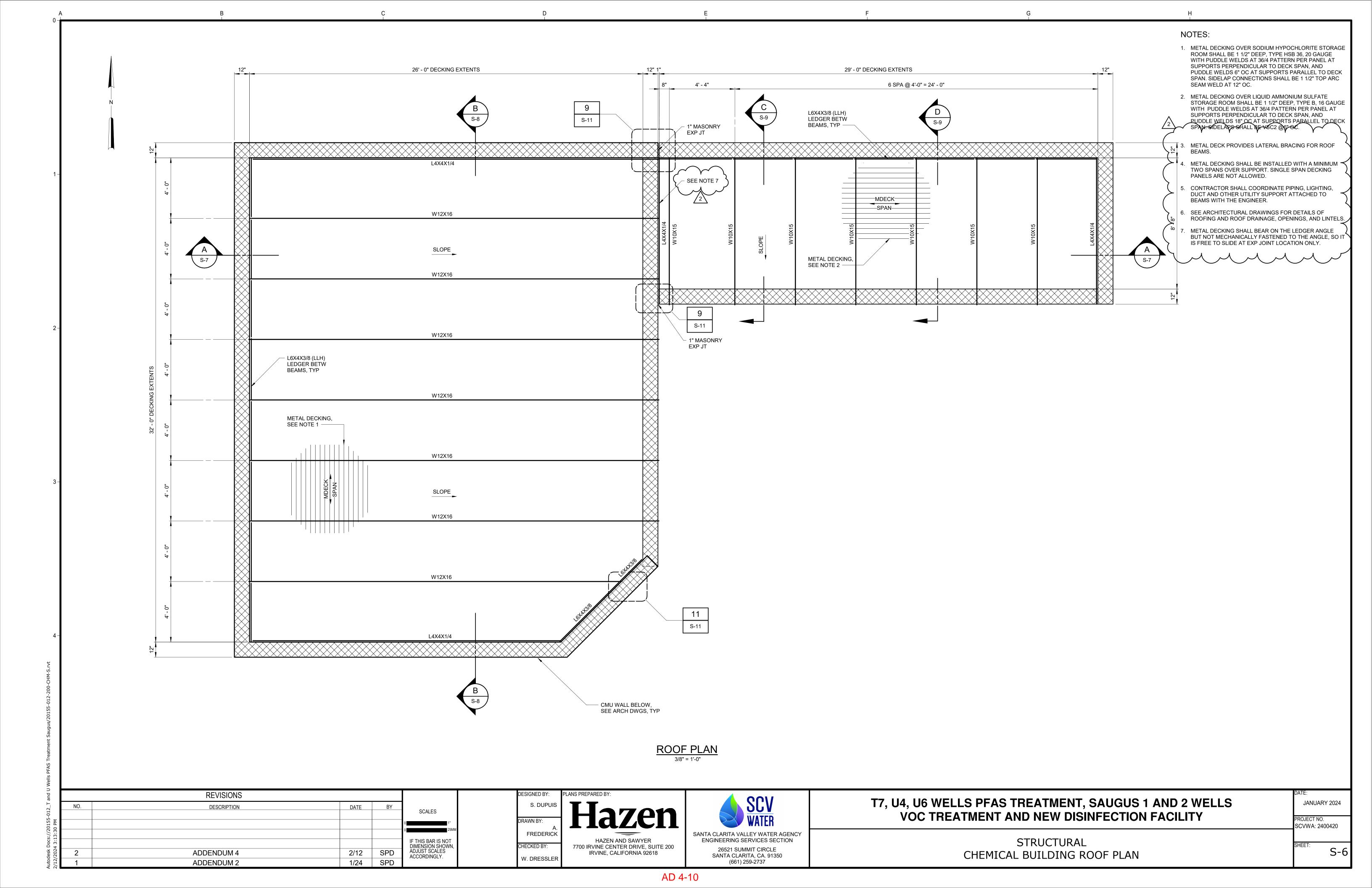
Addendum 4, ITEM 24. <u>SPECIFICATION DIVISION 13, SECTION 13206 – ION</u> EXCHANGE SYSTEM, PART 2 – PRODUCTS, 2.6.D.2, Page 9

DELETE in its entirety and REPLACE with the following:

"2. Transfer Hose Connectors: The IX Slurry piping shall be fitted with hose connectors, such that IX Resin transfer to and from the exchange vessels can be facilitated with transfer hoses. These connectors shall be 4-inch quick disconnect adapters constructed of 316 stainless steel as manufactured by OPW Division of Dover Corporation as Kamlock Part No. 633-F, or equal."

Addendum 4, ITEM 25. DRAWINGS

REPLACE Drawing S-6 with the REVISED drawing attached.



SANTA CLARITA VALLEY WATER AGENCY **NOTICE TO PLANHOLDERS**

ADDENDUM NO.5

Santa Clarita Valley Water Agency 26521 Summit Circle Santa Clarita, California 91350								
77, U4, U6 Wells PFAS Treatment, Saugus 1 and Saugus 2 Wells VOC Freatment and New Disinfection Facility Project								
All Planholders								
Santa Clarita Valley Water Agency								
March 8, 2024, at 5:00 PM								
n to prospective bidders that the Contract Documents for the T7, U4, U6 nt, Saugus 1 and Saugus 2 Wells VOC Treatment and New Disinfection December 18, 2023, have been modified as hereinafter set forth. This lill form a part of the Contract Documents and the modifications indicated bedence over the original Contract Documents and previous Addenda, as provisions shall remain the same.								
edge receipt of this Addendum No. 5 in the space below. This page AD 5-1 ne Bid. Moreone P.E., Principal Engineer ey Water Agency								
NT TO BE ATTACHED TO SEALED BID.								
ndum No. 5 (pages AD 5-1 through AD 5-4).								

GENERAL: The following changes, additions, or deletions shall be made to the following documents as noted and shall take precedence over the original Contract Documents and previous Addenda, as applicable. All other provisions remain the same.

ADDENDUM 5, ITEM 1. CONTRACT DOCUMENTS, INSTRUCTIONS TO BIDDERS-PARAGRAPH IB-06

ADD the following item to the bid form list:

"Fleet Compliance Certification"

ADDENDUM 5, ITEM 2. CONTRACT DOCUMENTS, INSTRUCTIONS TO BIDDERS

ADD the following new paragraph after paragraph "IB-27":

"IB-28 CARB COMPLIANCE

The AGENCY is a Public Works Awarding Body, as defined under Title 13 California Code of Regulations section 2449(c)(46).

Accordingly, Bidders must submit, with their Bids, valid Certificates of Reported Compliance ("CRC") for the Bidder's fleet and for the fleet(s) of its listed subcontractors (including any applicable leased equipment or vehicles). Bidder must additionally complete and submit the Fleet Compliance Certification, included in the Bid Documents. Failure to provide a CRC for the Bidder, and for all listed subcontractors, or failure to complete the Fleet Compliance Certification, may render the Bid non-responsive."

ADDENDUM 5, ITEM 3. CONTRACT DOCUMENTS, BID FORM

ADD the following bid form:

FLEET COMPLIANCE CERTIFICATION, Addendum No. 5

ADDENDUM 5, ITEM 4. CONTRACT DOCUMENTS, GENERAL CONDITIONS-GC-59. COMPLIANCE WITH ENVIRONMENTAL LAWS

ADD the following paragraph:

"d. CARB Compliance

CONTRACTOR shall comply, and shall ensure all subcontractors comply, with all applicable requirements of the most current version of the regulations imposed by California Air Resources Board ("CARB") including, without limitation, all applicable terms of Title 13, California Code of Regulations Division 3, Chapter 9 and all pending amendments ("Regulation").

Throughout the Project, and for three (3) years thereafter, CONTRACTOR shall make available for inspection and copying any and all documents or information associated with CONTRACTOR'S and its subcontractors' fleets including, without limitation, the Certificates of Reported Compliance ("CRCs"), fuel/refueling records, maintenance records, emissions records, and any other information the CONTRACTOR is required to produce, keep or maintain pursuant to the Regulation upon two (2) calendar days' notice from the AGENCY.

CONTRACTOR shall be solely liable for any and all costs associated with compliance with the Regulation as well as for any and all penalties, fines, damages, or costs associated with any and all violations, or failures to comply with the Regulation. CONTRACTOR shall defend, indemnify and hold harmless the AGENCY, its officials, officers, employees and authorized volunteers free and harmless from any claims, liabilities, costs, penalties or interest arising out of any failure or alleged failure to comply with the Regulation."

FLEET COMPLIANCE CERTIFICATION-(Addendum No. 5)

Bidder hereby acknowledges that they have reviewed the California Air Resources Board's policies, rules and regulations and are familiar with the requirements of Title 13, California Code of Regulations, Division 3, Chapter 9, effective on January 1, 2024 (the "Regulation"). Bidder hereby certifies, subject to penalty for perjury, that the option checked below relating to the Bidder's fleet, and/or that of their subcontractor(s) ("Fleet") is true and correct:

The Fleet is subject to the requirements of the Regulation, and the appropriate Certificate(s) of Reported Compliance have been attached hereto.

The Fleet is exempt from the Regulation under section 2449.1(f)(2), and a signed description of the subject vehicles, and reasoning for exemption has been attached hereto.

Bidder and/or their subcontractor is unable to procure R99 or R100 renewable diesel fuel as defined in the Regulation pursuant to section 2449.1(f)(3). Bidder shall keep detailed records describing the normal refueling methods, their attempts to procure renewable diesel fuel and proof that shows they were not able to procure renewable diesel (i.e. third party correspondence or vendor bids).

The Fleet is exempt from the requirements of the Regulation pursuant to section 2449(i)(4) because this Project has been deemed an Emergency, as defined under section 2449(c)(18). Bidder shall only operate the exempted vehicles in the emergency situation and records of the exempted vehicles must be maintained, pursuant to section 2449(i)(4).

The Fleet does not fall under the Regulation or are otherwise exempted and a detailed reasoning is attached hereto.

Name of Bidde	er:		
Signature:			
Name:			
rvairio.			
Title:			
Title.			
Date:			
Date:		 	

BID FORM ADDENDUM NO. 5

T7, U4, U6 WELLS PFAS TREATMENT, SAUGUS 1 AND 2 WELLS VOC TREATMENT AND NEW DISINFECTION FACILITY
PROJECT NO. 1000420

AD 5-4

SANTA CLARITA VALLEY WATER AGENCY **NOTICE TO PLANHOLDERS**

ADDENDUM NO. 6

Santa Clarita Valley Water Agency 26515 Summit Circle

Santa Clarita, California 91350

Owner:

Project:	T7, U4, U6 Wells PFAS Treatment, Saugus 1 and 2 Wells VOC Treatment and Disinfection Facility Project							
То:	All Planholders							
From:	Hazen and Sawyer							
Bid Date:	March 8, 2024 at 5:00 PM (Pacific Time)							
Wells PFAS Treatme dated December 202 form a part of the	Notice is hereby given to prospective bidders that the Plans and Specifications for T7, U4, U6 Wells PFAS Treatment, Saugus 1 and 2 Wells VOC Treatment and Disinfection Facility Project dated December 2023, have been modified as hereinafter set forth. This Addendum No. 6 shall form a part of the Contract Documents and the modifications indicated herein shall take precedence over the original Contract Documents, as applicable. All other provisions shall remain the same.							
Bidder shall acknowle shall be attached to t	edge receipt of this Addendum No. 6 in the space below. This page AD 6-1 he Bid.							
By: Ali Rah Hazen and Sa	awyer PROFESSIONAL							
Date: 2/22/20	24 No. C81831 No. C81831							
	INT TO BE ATTACHED TO SEALED BID.							
	endum No. 6 (Pages AD 6-1 through AD 6-72).							
0								
Title:								
Date:								
T&U Wells PFAS Treatment on								

and 2 VOC Treatment and Disinfection Facility

GENERAL: The following changes, additions, or deletions shall be made to the following documents as noted and shall take precedence over the original Contract Documents. All other provisions remain the same.

Addendum 6, ITEM 1. TABLE OF CONTENTS – DIVISION 16 – ELECTRICAL, TOC-4,

Page 4:

ADD the following specification to the list:

"16461 – Dry Type Distribution Transformers"

Addendum 6, ITEM 2. TABLE OF CONTENTS – APPENDICES, TOC-6, Page 6:

ADD the following appendix to the list:

"APPENDIX N - Groundwater Containment, Treatment and

Restoration Project As-Built Drawings"

Addendum 6, ITEM 3. <u>SPECIFICATION DIVISION 02, SECTION 02050 – DEMOLITION</u>,

PART 2 - EXECUTION, 2.02, Page 2

ADD the following item:

"C. Contractor is responsible for removing and disposing of the chemicals in the existing storage tanks and piping, Refer to Appendix N – Groundwater Containment, Treatment and Restoration Project As-Built Drawings for the as-built drawings showing the capacity of the chemical tanks. Sulfuric acid tank does not contain acid, it has holds waste from the

monochloramine analyzer (this waste cannot be sent to storm

drain)."

Addendum 6, ITEM 4.

SPECIFICATION DIVISION 15, SECTION 15390 - PIPING AND VALVING SCHEDULES, PIPING SYSTEM SCHEDULE:

DELETE in its entirety and REPLACE with the following:

WATER TREATMENT PLANT PIPING SCHEDULE								
		BURIED PIPING			E			
PIPE	PIPE DESIGNATIONS		TYPE OF JOINT	CLASS/ DESIGN	MATERIAL	TYPE OF JOINT	CLASS/ DESIGN	WORKING PRESSURE (PSI)
CF INF	CARTRIDGE FILTER INFLUENT	DUCTILE IRON	RESTRAINED MJ	SECTION 15006	CARBON STEEL	WELDED/ FLANGED ³	SECTION 15012	200
IX INF	ION EXCHANGE INFLUENT	CARBON STEEL	WELDED/ FLANGED ³	SECTION 15006	CARBON STEEL	WELDED/ FLANGED ³	SECTION 15012	200
IX EFF	ION EXCHANGE EFFLUENT	DUCTILE IRON	RESTRAINED MJ	SECTION 15006	CARBON STEEL	WELDED/ FLANGED ³	SECTION 15012	200
IX FTW	ION EXCHANGE FILTER TO WASTE	DUCTILE IRON	RESTRAINED MJ	SECTION 15006	CARBON STEEL	WELDED/ RESTRAINED/ FLANGED ³	SECTION 15012	200
GAC INF	GAC INFLUENT	DUCTILE IRON	RESTRAINED	SECTION 15006	CARBON STEEL	WELDED/ FLANGED ³	SECTION 15012	125
GAC EFF	GAC EFFLUENT	DUCTILE IRON	RESTRAINED	SECTION 15006	CARBON STEEL	WELDED/ FLANGED ³	SECTION 15006	125
GAC BWS ⁴	GAC BACKWASH SUPPLY	DUCTILE IRON	RESTRAINED	SECTION 15006	CARBON STEEL	WELDED/ FLANGED ³	SECTION 15006	150
GAC BWS ⁴	GAC BACKWASH SUPPLY	DUCTILE IRON	RESTRAINED	SECTION 15006	CARBON STEEL	WELDED/ FLANGED ³	SECTION 15006	125
GAC BWW	GAC BACKWASH WASTE	DUCTILE IRON	RESTRAINED	SECTION 15006	CARBON STEEL	WELDED/ FLANGED ³	SECTION 15006	125
SHC	SODIUM HYPOCHLORITE	PVC/CPVC ²	SOCKET	SCH 80	PVC/CPVC ²	SOCKET/ FLANGED	SCH 80	200
LAS	LIQUID AMMONIUM SULFATE	PVC/CPVC ²	SOCKET	SCH 80	PVC/CPVC ²	SOCKET/ FLANGED	SCH 80	200
D	DRAIN	DUCTILE IRON	RESTRAINED	SECTION 15009	DUCTILE IRON	RESTRAINED/ FLANGED ³	SECTION 15006	75
BL	BLEND LINE	DUCTILE IRON	RESTRAINED	SECTION 15006	CARBON STEEL	WELDED/ FLANGED ³	SECTION 15006	125
S	SAMPLE	< 4" PVC / CPVC ²	SOCKET	SCH 80	< 4" PVC / CPVC ²	SOCKET/ FLANGED	SCH 80	200

¹⁾ Restraint system design pressure shall be equal to the sum of working pressure and surge pressure and shall be used to determine the size, number, material, and dimensions of tabs and threaded-rods for piping specified or shown to have threaded-rods for thrust restraint.

2) For all PVC / CPVC designations, if piping is exposed to direct sunlight or if heat tracing is required, CPVC shall be used. Otherwise, PVC shall be

AD 6-3

³⁾ Flanges shall be provided as shown on the drawings or as approved by the Engineer.
4) The working pressure for GAC BWS upstream of FCV-204 shall be 150psi. The working pressure downstream of FCV-204 shall be 125psi

Addendum 6, ITEM 5.

<u>SPECIFICATION DIVISION 15, SECTION 15390 – PIPING AND VALVING SCHEDULES, ELECTRICALLY OPERATED VALVE SCHEDULE:</u>

DELETE in its entirety and REPLACE with the following:

TAG NO.	VALVE TYPE	OPERATOR TYPE	SIZE	Working Pressure	SERVICE	LOCATION
NO.	VALVETTPE	ITPE	(in.)	(PSI)	SERVICE	
54-MOV-701	BUTTERFLY	OPEN/CLOSE	12	200	IX INF	IX INFLUENT TO IX VESSEL 1/2
54-MOV-703	BUTTERFLY	OPEN/CLOSE	12	200	IX INF	IX INFLUENT TO IX VESSEL 3/4
60-MOV-200	BUTTERFLY	OPEN/CLOSE	10	125	GAC EFF	GAC EFFLUENT PIPE
60-MOV-500	BUTTERFLY	OPEN/CLOSE	10	125	BL	BLEND LINE
60-MOV2021	BUTTERFLY	MODULATING	8	125	GAC INF	GAC VESSEL #1 INFLUENT
60-MOV-203 ¹	BUTTERFLY	MODULATING	8	125	GAC INF	GAC VESSEL #2 INFLUENT
60-FCV-203	CLA-VAL	MODULATING	10	125	GAC BWS	GAC BACKWASH SUPPLY

¹⁾ Valves to be provided under the GAC System Vendor scope.

Addendum 6, ITEM 6.

<u>SPECIFICATION DIVISION 15, SECTION 15390 – PIPING AND VALVING SCHEDULES, MANUAL VALVE SCHEDULE:</u>

DELETE in its entirety and REPLACE with the following:

VALVE TYPE	OPERATOR	SIZE	WORKING PRESSURE		
AND QUANTITY	TYPE	(in.)	(psi)	SERVICE	DRAWING
BUTTERFLY (3)	WHEEL	6	250	WELL U6 AND WELL T7 HEADER PIPING	I-3
BUTTERFLY (1)	WHEEL	10	250	WELL U6 HEADER PIPING	I-3
BUTTERFLY (4)	WHEEL	12	200	CARTRIDGE FILTER INFLUENT AND EFFLUENT ISOLATION	I-3
BUTTERFLY (5)	WHEEL	12	200	ION EXCHANGE EFFLUENT, AND FILTER TO WASTE TO BOTH IX VESSEL SYSTEMS	I-4
BUTTERFLY (5)	WHEEL	10	125	GAC INFLUENT, EFFLUENT, BACKWASH SUPPLY, AND BACKWASH WASTE; IX FTW FROM SAUGUS WELLS	I-5 , M-10
BUTTERFLY (1)	WHEEL	10	150	IX FTW Q2 WELLS PERCHLORATE TREATMENT	I-5, M-10
BUTTERFLY (1)	WHEEL	10	125	BLEND LINE	I-6

¹⁾ Valves to be provided as part of IX AND GAC System Vendor Scope not listed herein.

²⁾ Valves under 6-inch and chemical system valves not listed herein.

³⁾ Manual valves with wheel type operators shall require a chainwheel if located higher than 6 ft from the finish floor elevation as per the contract drawings.

⁴⁾ Contractor is responsible for supplying all valves per the contract drawings even if not listed on this table. See civil drawings for gate valves needed at connection points outside of the facility.

Addendum 6, ITEM 7. <u>SPECIFICATION DIVISION 16, SECTION 16461 – DRY TYPE</u>

DISTRIBUTION TRANSFORMERS

ADD the specification section attached in its entirety.

Addendum 6, ITEM 8. <u>APPENDIX N GROUNDWATER CONTAINMENT, TREATMENT</u>

AND RESTORATION PROJECT AS-BUILT DRAWINGS

ADD the appendix attached in its entirety.

Addendum 6, ITEM 9. DRAWINGS

REPLACE Drawing S-7, S-9, and S-13 with the REVISED drawing

attached.

SECTION 16461

DRY TYPE DISTRIBUTION TRANSFORMERS

PART 1 -- GENERAL

1.01 THE REQUIREMENT

- A. The Contractor shall furnish, install, and test transformers for power and lighting distribution systems as specified herein, as indicated on the Drawings, and as required to complete the electrical installations.
- B. All equipment specified in this Section shall be furnished by the transformer manufacturer who shall be responsible for the suitability and compatibility of all included equipment.
- C. Reference Section 16000, Basic Electrical Requirements; and Section 16195, Electrical Identification.

1.02 CODES AND STANDARDS

- A. All equipment shall be Listed by and shall bear the Label of Underwriter's Laboratories, Incorporated (UL).
- B. Transformers shall be designed, manufactured, and/or Listed to the following standards as applicable:
 - 1. American National Standards Institute (ANSI)/Institute of Electrical and Electronic Engineers (IEEE):
 - a. ANSI/IEEE C57.12.01 Standard for General Requirements for Dry -Type Distribution and Power Transformers.
 - 2. National Electrical Manufacturers Association (NEMA):
 - a. NEMA ST 20 Dry Type Transformers for General Applications.
 - 3. National Fire Protection Association (NFPA):
 - a. NFPA 70 National Electrical Code (NEC).
 - 4. Underwriters Laboratories (UL):
 - a. UL 1561 Dry-Type General Purpose and Power Transformers.
 - 5. U.S. Department of Energy 2016 Efficiency Standards

1.03 SUBMITTALS

T&U Wells PFAS Treatment, Saugus 1 and 2 VOC Treatment and Disinfection Facility

Dry Type Transformers 16461-1

- A. In accordance with the procedures and requirements set forth in the General Conditions and Division 1, the Contractor shall obtain from the equipment manufacturer and submit the following:
 - 1. Shop Drawings.
 - Operation and Maintenance Manuals.
 - Spare Parts List.
 - 4. Reports of Certified Shop Field Tests.
- B. Each submittal shall be identified by the applicable specification section.

1.04 SHOP DRAWINGS

- A. Each submittal shall be complete in all respects, incorporating all information and data listed herein, and all additional information required for evaluation of the proposed equipment's compliance with the Contract Documents.
- B. Partial, incomplete, or illegible submittals will be returned to the Contractor without review for resubmittal.
- C. Shop drawings shall include but not be limited to:
 - Product data sheets.
 - 2. Drawings showing clearly marked dimensions and weight for each transformer.
 - 3. Sample equipment nameplate diagram.
- D. The submittal information shall reflect the specific equipment identification number as indicated on the Drawings (e.g. TX-LP-GAC).
- E. The shop drawing information shall be complete and organized in such a way that the Engineer can determine if the requirements of these Specifications are being met. Copies of technical bulletins, technical data sheets from "soft-cover" catalogs, and similar information which is "highlighted" or somehow identifies the specific equipment items that the Contractor intends to provide are acceptable and shall be submitted.

1.05 OPERATION AND MAINTENANCE MANUALS

A. The Contractor shall submit operation and maintenance manuals in accordance with the procedures and requirements set forth in the General Conditions and Division 1.

1.06 SPARE PARTS

- A. All spare parts as recommended by the equipment manufacturer shall be furnished to the Owner by the Contractor.
- B. Reference Section 16000, Basic Electrical Requirements for spare parts delivery and handling requirements.

T&U Wells PFAS Treatment, Saugus 1 and 2 VOC Treatment and Disinfection Facility

Dry Type Transformers 16461-2

1.07 IDENTIFICATION

A. Each transformer shall be identified with the equipment item number indicated on the Contract Drawings and the accepted Shop Drawings. A nameplate shall be securely affixed in a conspicuous place on each transformer. Nameplates shall be as specified in Section 16195, Electrical - Identification.

PART 2 -- PRODUCTS

2.01 MANUFACTURERS

- A. The equipment covered by this Specification is intended to be standard equipment of proven performance as manufactured by reputable concerns. Equipment shall be designed, constructed, and installed in accordance with the best practices of the trade, and shall operate satisfactorily when installed as shown on the Drawings.
- B. Dry type distribution transformers shall be Energy Star compliant and manufactured by the Square D Company, GE by ABB, Eaton, or Siemens Energy and Automation, Inc.

2.02 DRY TYPE TRANSFORMERS

- A. Furnish and install single-phase and three-phase general purpose, dry-type transformers, as specified herein and indicated on the Drawings. The transformers shall be 60 Hz, self-cooled, quiet-design insulated of the two winding type.
- B. The transformers shall be UL 1561 Listed.
- C. The primary windings shall be rated 480 VAC for use on 3-phase systems and connected delta unless indicated otherwise on the Drawings. KVA ratings shall be as shown on the Drawings. Furnish transformers with two 2-1/2% primary taps above, and four 2-1/2% primary taps below rated voltage for transformers 15 KVA and above, and two 2-1/2% primary taps above, and two 2-1/2% primary taps above, and two 2-1/2% primary taps below rated voltage for transformers less than 15 kVA. All taps shall be full capacity rated.
- D. The ratings of the secondary windings shall be as indicated on the Drawings.
- E. Transformers shall be designed for continuous operation at rated KVA, 24 hours a day, 365 days a year, with normal life expectancy as defined in IEEE 65 and ANSI C57.96. This performance shall be obtainable without exceeding 150 degrees Celsius average temperature rise by resistance or 180 degrees Celsius hot spot temperature rise in a 40 degrees Celsius maximum ambient and 30 degrees Celsius average ambient. The maximum coil hot spot temperature shall not exceed 220 degrees Celsius. All insulating materials shall be flame retardant and shall not support combustion as defined in ASTM Standard Test Method D 635. All insulating materials shall be in accordance with NEMA ST 20 Standard for a 220 degrees Celsius UL component recognized insulation system.
- F. Transformer coils shall be of the continuous wound copper construction and shall be impregnated with non-hygroscopic, thermosetting varnish.

T&U Wells PFAS Treatment, Saugus 1 and 2 VOC Treatment and Disinfection Facility

Dry Type Transformers 16461-3

- G. All cores are to be constructed of high grade, non-aging, grain-oriented silicon steel with high magnetic permeability and low hysteresis and eddy current loses. Magnetic flux densities are to be kept well below the saturation point. The core laminations shall be tightly clamped and compressed with structural steel angles. The completed core and coil shall then be bolted to the base by means of vibration-absorbing mounts to minimize sound transmission. There shall be no metal-to-metal contact between the core and coil assembly and the enclosure.
- H. All transformers shall be equipped with a wiring compartment suitable for conduit entry and large enough to allow convenient wiring. The maximum temperature of the enclosure shall not exceed 90 degrees Celsius. Transformers shall be furnished with lugs of the size and quantity required and suitable for termination of the field wiring.
- The core of the transformer shall be visibly grounded to the enclosure by means of a flexible grounding conductor sized in accordance with applicable NEMA, IEEE, and ANSI standards.
- J. Transformers shall have core and coil assemblies mounted on rubber isolation pads to minimize the sound levels. Transformers shall not exceed the sound levels listed in NEMA ST-20.
- K. Transformers shall be furnished with the following enclosure type and material of construction, dependent upon the designation of the area in which they are to be installed. Area designations are indicated on the Drawings.

AREA DESIGNATION	ENCLOSURE TYPE AND MATERIAL
Indoor Wet Process Area	NEMA 3R, Painted Steel
Indoor Dry Process Area	NEMA 2, Painted Steel
Indoor Dry Non-process Area	NEMA 2, Painted Steel
All Outdoor Areas	NEMA 3R, Painted Steel

L. The enclosure shall be made of heavy gauge steel and shall be degreased, cleaned, primed, and finished with a baked weather-resistant enamel using the manufacturer's standard painting process. Color shall be ANSI 49 or ANSI 61 grey.

PART 3 -- EXECUTION

3.01 INSTALLATION

- A. The transformers shall be furnished and installed as shown on the Drawings and as recommended by the equipment manufacturer.
- B. Conduit routed to and from the transformer shall be arranged for easy removal of the transformer access covers.
- C. Where transformers 50 kVA and smaller are shown to be wall mounted, a transformer manufacturer supplied wall mounting kit shall be used. The lowest point of the wall mounting bracket shall be no lower than 7'-0" above the finished floor. Field fabricated mounting hardware is not acceptable unless reviewed and approved in writing by the Engineer.

T&U Wells PFAS Treatment, Saugus 1 and 2 VOC Treatment and Disinfection Facility

Dry Type Transformers 16461-4 D. Prior to final completion of the work, all metal surfaces of the equipment shall be cleaned thoroughly, and all scratches and abrasions shall be retouched with the same lacquer as used for shop finishing coats.

3.02 TESTING

- A. All tests shall be performed in accordance with the requirements of the General Conditions and Division 1. The following tests are required:
 - 1. Certified Shop Tests
 - a. The transformers shall be given routine factory tests in accordance with the requirements of the ANSI and NEMA standards. Temperature rises may be certified from basic design.
 - b. As a minimum, the following tests shall be made on all transformers:
 - i. Ratio tests on the rated voltage connection and on all tap connections.
 - ii. Polarity and phase-relation tests on the rated voltage connection.
 - iii. Applied potential tests.
 - iv. Induced potential tests.
 - v. No-load and excitation current at rated voltage on the rated voltage connection.

Field Tests

- a. Field testing shall be done in accordance with the requirements specified in the General Conditions, Division 1, and NETA Acceptance Testing Specifications, latest edition.
- b. Insulation between windings shall be tested by 1000 VDC Megohmmeter for one (1) minute. Resistance value shall be no less than 100 Megaohms.

- END OF SECTION -

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Appendix N

Groundwater Containment, Treatment and Restoration Project As-Built Drawings

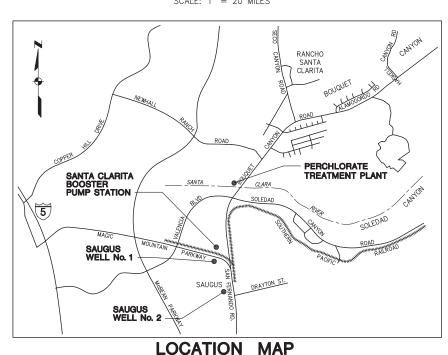
CASTAIC LAKE WATER AGENCY

GROUNDWATER CONTAINMENT, TREATMENT AND RESTORATION PROJECT 3

CL-118A JUNE 2007

(E) Lancaste **PROJECT** LOCATION Apple/Valley E Telegraph Rd Santa Barbara a Gamarillo Simi Valley Thousand Oaks Islands National Park *La Habra Morene Valley Yorba Linda Garden Groves Corange *Fountain Valley

VICINITY MAP



DIAL TOLL FREE 1-800-422-4133 AT LEAST TWO DAYS BEFORE YOU DIG



UNDERGROUND SERVICE ALERT(USA) OF SOUTHERN CALIFORNIA

RECORD DRAWINGS

AdB

HESE RECORD DRAWINGS HAVE BEEN PREPARED BASED ON INFORMATION PROVIDED BY HE CONTRACTOR AND OTHERS. KENNEDY/JENKS CONSULTANTS HAS NOT VERIFIED THE AC-URACY OR COMPLETENESS OF THE INFORMATION PROVIDED TO THEM AND DOES NOT WARRA HE ACCURACY OR COMPLETENESS OF THESE RECORD DRAWINGS. USERS OF THESE RECORD

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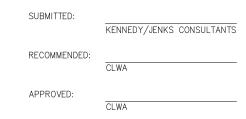
LIST OF DRAWINGS

DISCIPLINE GENERAL TITLE SHEET, VICINITY MAP, LOCATION MAP, AND LIST OF DRAWINGS MECHANICAL (CONT'D) SAUGUS WELL NO. 2 - PLANS AND DETAIL PIPING SYMBOLS, PIPING SCHEDULE, ABBREVIATIONS AND LEGEND SANTA CLARITA BOOSTER PUMP STATION - PLAN, SECTION AND DETAIL DESIGN BASIS PIPE SUPPORT AND MISCELLANEOUS DETAILS HYDRAULIC PROFILE M - 10MISCELLANEOUS DETAILS CIVIL INSTRUMENTATION EXISTING SITE PLAN / DEMOLITION PLAN P&ID - LEGEND AND ABBREVIATIONS DEMOLITION PLAN EAST, SECTION AND CONNECTION DETAIL P&ID - SAUGUS WELLS NO. 1 AND NO. 2 AND Q2 WELL SITE PLAN SITE GRADING PLAN P&ID - PERCHLORATE TREATMENT P&ID - TREATED WATER PUMPS P&ID - SULFURIC ACID FEED SYSTEM SANTA CLARITA BOOSTER PUMP STATION - PLAN AND SECTIONS P&ID - SODIUM HYPOCHLORITE FEED SYSTEM MISCELLANEOUS DETAILS I MISCELLANEOUS DETAILS II P&ID - AMMONIA FEED SYSTEM INSTRUMENTATION DETAILS ARCHITECTURAL I-10 SCADA SYSTEM AND CONTROL PANELS CHEMICAL STORAGE BUILDING - PLAN, FLEVATIONS AND DETAILS STRUCTURAL SYMBOLS AND ABBREVIATIONS S-1GENERAL STRUCTURAL NOTES — SPECIAL INSPECTION & TESTING SCHEDULE & STRUCTURAL ABBREVIATIONS SINGLE LINE DIAGRAM, ELEVATION AND PANELBOARD SCHEDULE TYPICAL STRUCTURAL DETAILS ELECTRICAL SITE PLAN MEDIA VESSELS & BAG FILTERS — FOUNDATION PLANS & SECTIONS EXISTING PUMP STATION BUILDING - ELECTRICAL PLAN TREATMENT PLANT - POWER AND SIGNAL PLAN CONDUIT/WIRE FIXTURE SCHEDULES SAUGUS WELL NO. 1 - DEMOLITION PLAN S-5 CHEMICAL STORAGE BUILDING - FOUNDATION PLAN, ROOF PLAN & SECTIONS POWER AND SIGNAL PLANS SAUGUS WELL NO. 2 - DEMOLITION PLAN -CHEMICAL STORAGE BUILDING - SECTIONS POWER AND SIGNAL PLANS CHEMICAL STORAGE BUILDING - LIGHTING, POWER AND SANTA CLARITA BOOSTER PUMP STATION - PLAN, SECTIONS & DETAILS
CHEMICAL SPILL PAD — PLAN & SECTIONS SIGNAL PLANS AND CONDUIT DIAGRAMS. AMMONIA SHELTER - LIGHTING, POWER AND SIGNAL PLANS AND CONDUIT DIAGRAMS MECHANICAL FLEMENTARY DIAGRAMS MEDIA VESSELS - PLAN AND SECTIONS FIBER OPTIC CABLE EXTENDED ELECTRICAL SITE PLAN E-11 BAG FILTERS - PLAN AND SECTIONS SANTA CLARITA BOOSTER PUMP STATION - ELECTRICAL SITE PLAN TREATED WATER PUMPS -PLAN AND SECTION SANTA CLARITA BOOSTER PUMP STATION - ELECTRICAL PLANS TREATED WATER EQUALIZATION TANK - PLAN, SECTIONS AND DETAILS SINGLE LINE DIAGRAM AND ELEVATION CHEMICAL STORAGE BUILDING AND AMMONIA SHELTER - PLANS

PROJECT BASIS OF COORDINATES

THE BEARINGS SHOWN HEREON ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM, NORTH AMERICAN DATUM OF 1983, HIGH PRECISION GEODETIC NETWORK DENSIFICATION 1991.35. THE BEARING OF N33d07'41"W BEING BETWEEN NGS STATIONS "CMP9" AND "DAM2".

APPROVALS



BENCHMARK

MISCELLANEOUS DETAILS

SANTA CLARITA BOOSTER PUMP STATION - ELECTRICAL SCHEDULES

SHEET TITLE

BM NO. L2895

OWNER:

NAVD 1988 ELEV=1152.409 (NEWHALL QUAD, 1995 ADJUSTED) RDBM TAG W CB VALENCIA BLVD 6FT S BCR @ SW COR MAGIC MT PKWY & VALENCIA BLVD 97FT S & 42FT W C/L INT

CONTACTS

SUBMITTED:	KENNEDY/JENKS CONSULTANTS
RECOMMENDED:	CLWA
APPROVED:	CLWA

ENGINEER:

CASTAIC LAKE WATER AGENCY 27234 BOUQUET CANYON ROAD SANTA CLARITA, CA 91350 (661) 297-1600

KENNEDY/JENKS CONSULTANTS 1000 HILL ROAD, SUITE 200 VENTURA CA 93003 (805) 658-0607

USE OF DOCUMENTS

SCALES IF THIS BAR IS NOT /3\ Revised Sheet G-3 & I-7 MAY 2014 FS RECORD DRAWINGS JULY 2010 JTD



	DESIGNED
TONK GE	JSA
OR SE	DRAWN
90	R00
	CHECKED

CASTAIC LAKE WATER AGENCY LOS ANGELES COUNTY, CALIFORNIA

> Kennedy/Jenks Consultants 1000 HILL ROAD, SUITE 200, VENTURA, CA 93003

PERCHLORATE TREATMENT

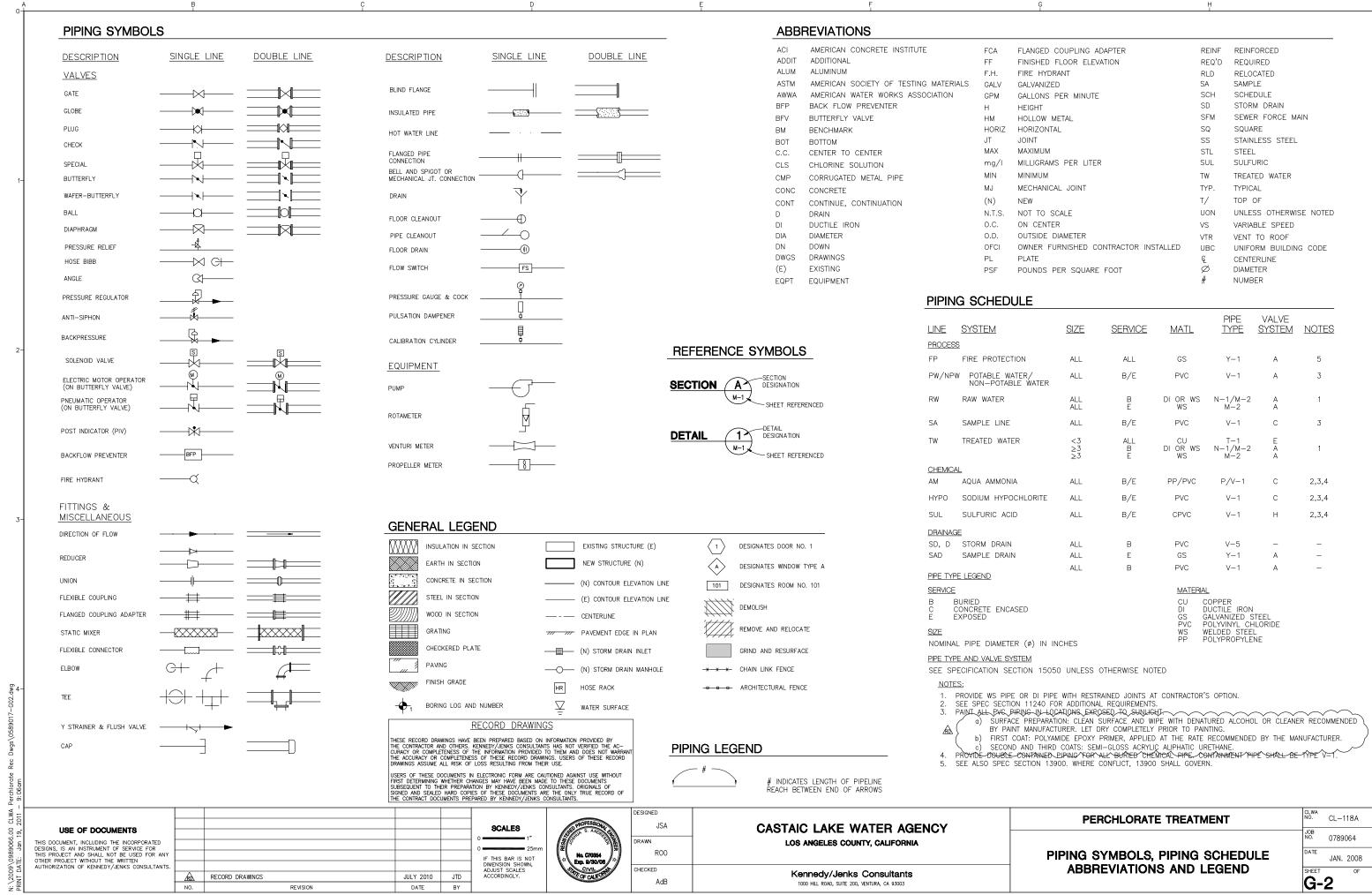
TITLE SHEET, VICINITY MAP, LOCATION MAP, AND LIST OF DRAWINGS

CL-118A 0789064 JAN. 2008

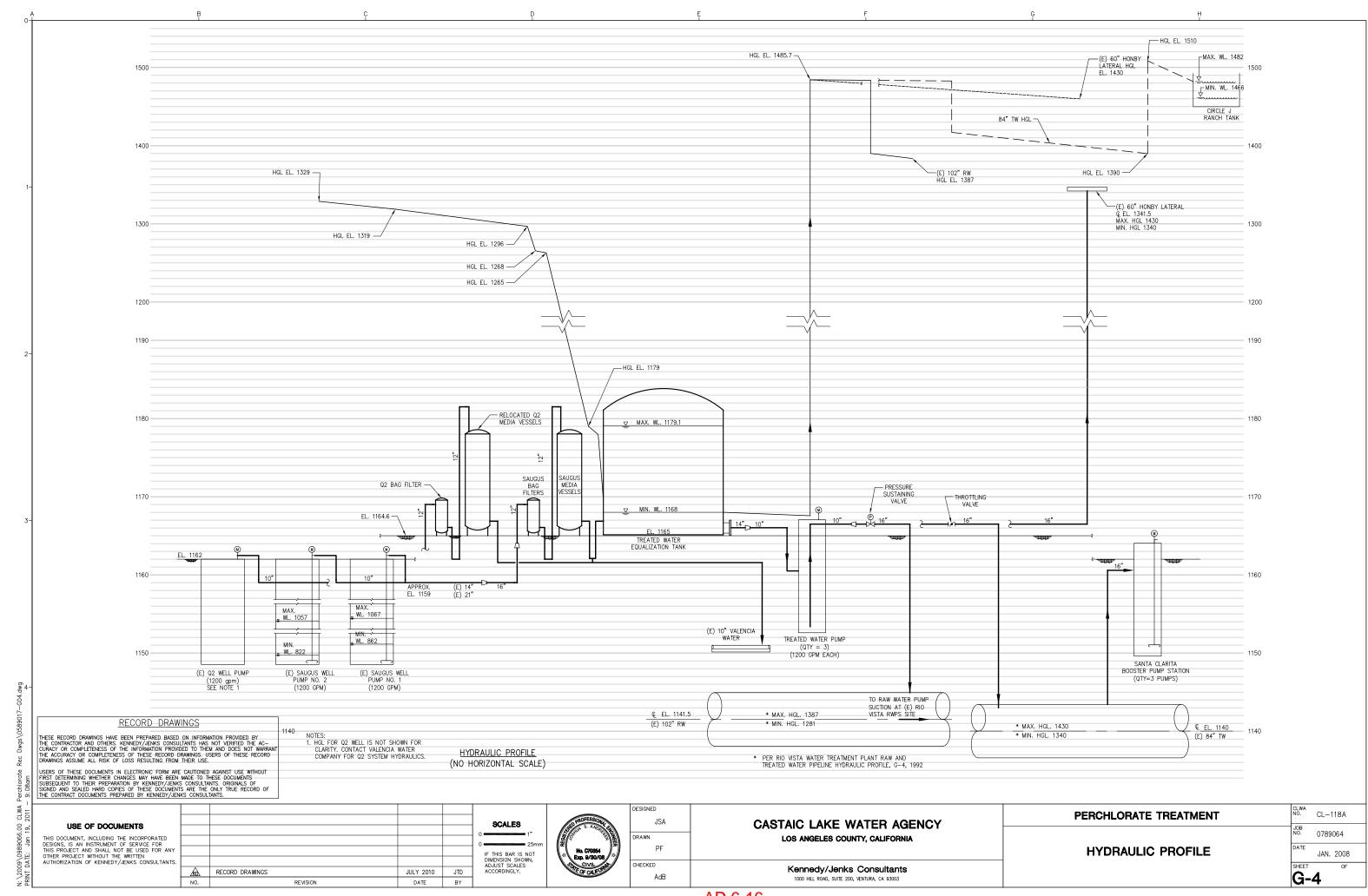
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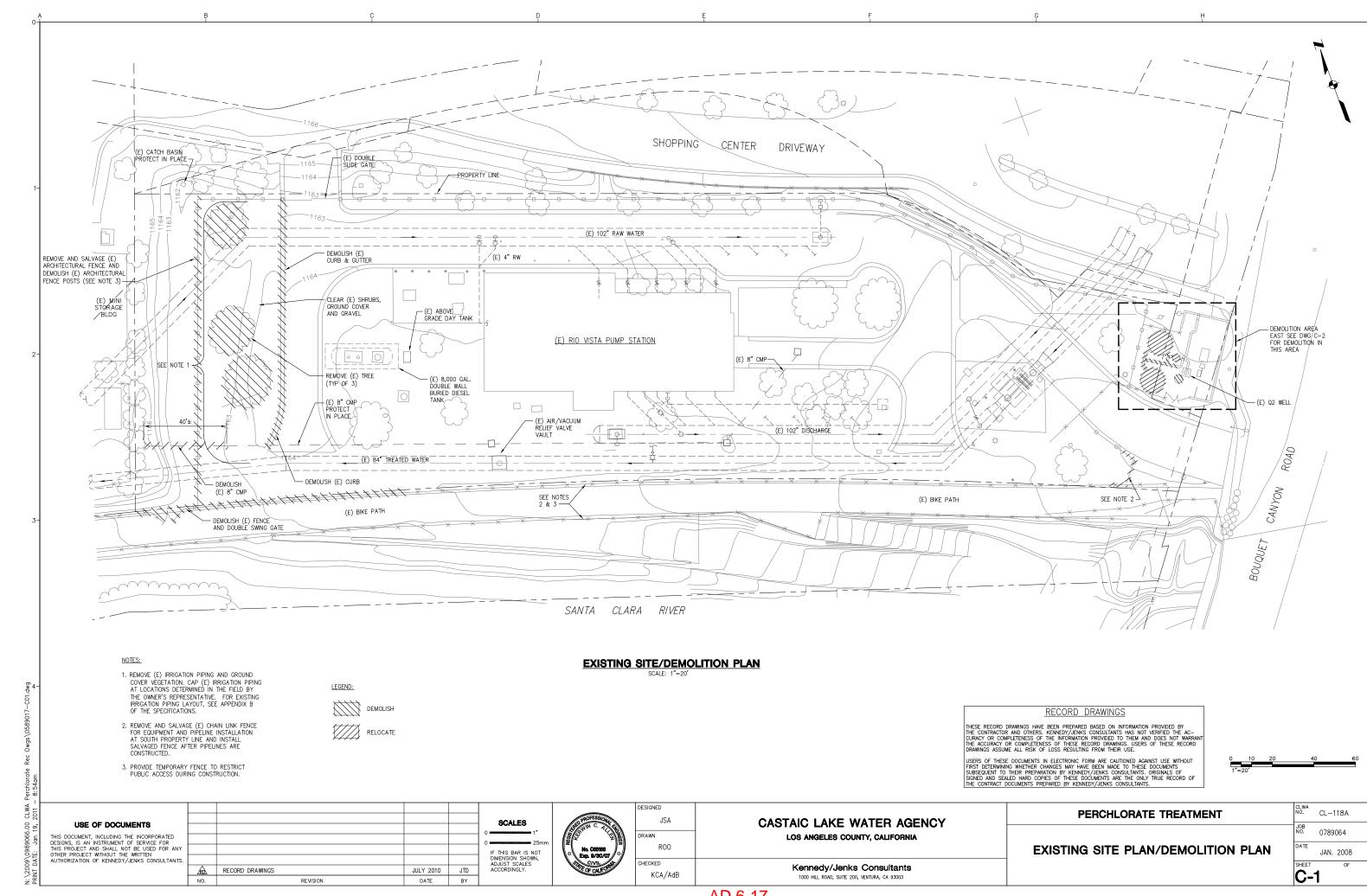
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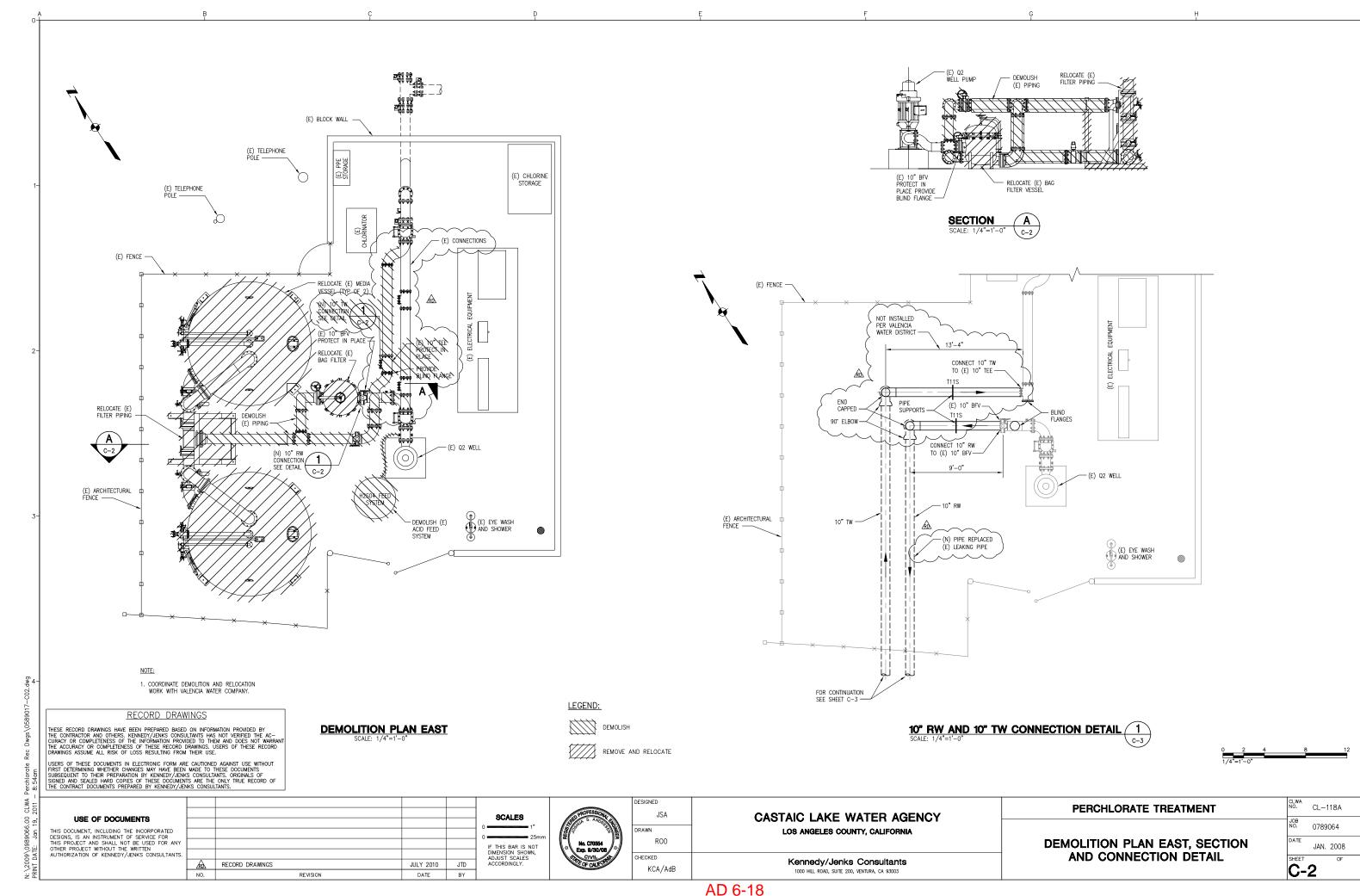
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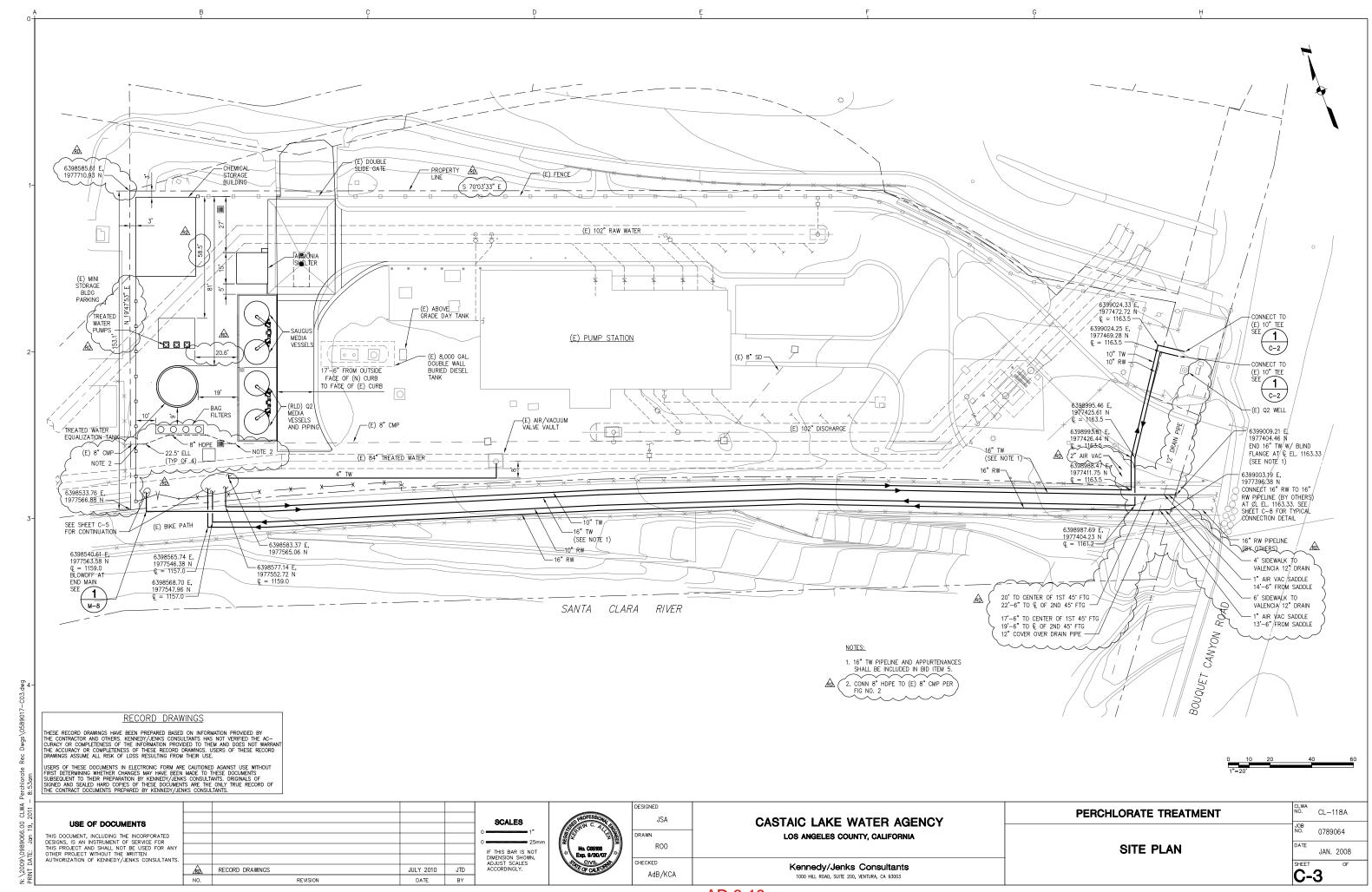


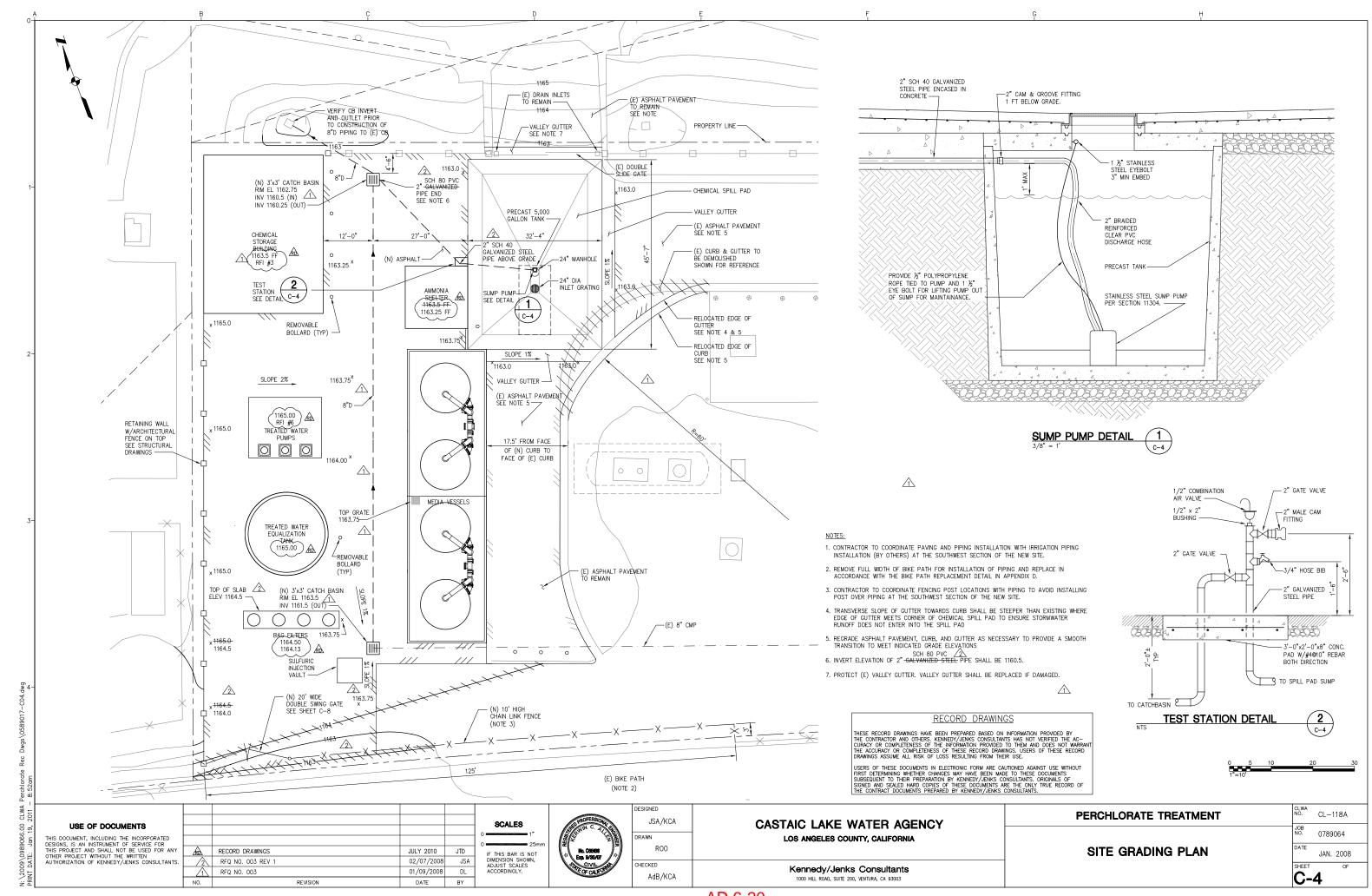
В				D I	E F			
		Saugus	Q2				Saugus Q2	
LTEM	<u>UNITS</u>		1200 GPM	Notes	<u>ITEM</u>	<u>UNITS</u>	2400 GPM 1200 GPM Notes	
1. PLANT FLOW RATE					7. AMMONIA FEED SYSTEM			
With Two Vessels	GPM	2400	1200		Flow (Avg/Max)	GPM %	2400/3600 – 19 –	
2. WELL PUMPS					Concentration (by weight) Specific Gravity	% Sp. Gr	0.92	
Saugus No. 1 Type	Vertical Turbine				Concentration as NH3 Concentration as N	lb/gal lb/gal	1.46 – 1.2 –	
Stages	No.	9			Dosage (Avg/Max)	mg/l as N	0.5/0.8 –	
Operating Point (Max. Flow ® TDH) Horsepower	GPM @ Feet	1200 © 520 250	_		Use (Avg/Max) Storage Tank	ppd as N	15/35 –	
Drive Type		VS	_		Туре	Closed Top Vertical	\sim $\sqrt{3}$	
Saugus No. 2 Type	Vertical Turbine	1	_		Operating Capacity Nominal Capacity	gal gal	650	
Stages	No.	10			Maximum Diameter	ft	(4 \ -	
Operating Point (Max. Flow © TDH) Horsepower	GPM @ Feet	1200 @ 570 250	_		Maximum Height Supply at Average Use of 2400 gpm	ft days	\[\begin{pmatrix} 8.00 \\ 54 \\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
Drive Type		VS	-		Supply at Maximum Use of 3600 gpm	days	<u> </u>	
Q2 Type	Vertical Turbine	=			Metering Pumps Type	Mechanical Diaphragm	luu	
Stages Operating Point (Max. Flow ® TDH)	No. GPM @ Feet	- 1:	6 1200 © 390		Number of Pumps	2 (One Standby) GPH	1.2 –	
Horsepower	orm w reet	- -	250		Pump Capacity Pump Total Dynamic Head	ft	20 –	
Drive Type		-	VS		Pump Motor Speed Control	HP VS	0.5	
3. PERCHLORATE TREATMENT					,	VS		
Bag Filters Number of Filters (active)	_	2	1		8. SULFURIC ACID FEED SYSTEM Flow	GPM	2400 1200	
Number of Filters (detive) Number of Filters (standby)	-	1	1	Stand-by filter shared between	Concentration (by weight)	%	50 50	
Filter Mesh Size	Micron	80	80	Saugus and Q2 Treatment Systems	Bulk Chemical Concentration Dosage	lb/gal mg/l	5.82 5.82 15 20 3	
Filter Capacity (each)	GPM	1200	1200		Use	ppd	435 580	
Min. Pressure Drop Max. Pressure Drop	psi psi	2 12	2 12	At plant flows based on US Filter data At plant flows based on US Filter data	Storage Tank Type	Closed Top Vertical	2	
Treatment Vessels	·			The prairie from a business off too filter dutte	Operating Capacity	gal	4000 –	
Number of Vessels Vessel Diameter	– ft	2 12	2 12		Nominal Capacity Maximum Diameter	gal ft	4100 – 8.5 –	
Overall Height	ft	14.33	14.33		Maximum Height	ft	10.75 –	
Vessel Volume Maximum Flow Rate	gal GPM	7250 2400	7250 2400		Supply at Maximum Use of 3600 gpm Metering Pumps	days	30 –	
Type of Media	-	Amberlite PWA2 Am	nberlite PWA2		Туре	Mechanical Diaphragm		
Media Volume per Vessel Maximum Working Pressure (@ 150 F)	Cubic Feet psi	300 125	300 125		Number of Pumps Pump Capacity	4 GPH	3.5 2.5	
Maximum Pressure Drop (@ 58 F)	psi	35	17	At plant flows based on US Filter data	Pump Total Dynamic Head	ft	150 ?	
Treated Water Pumps Type		Vertical Turbine	_		Pump Motor Speed Control	HP VS	0.5 0.5	
Stages	No.	4			'			
Number of Pumps Pump 1 (Capacity, TDH, Power, Drive)	No. GPM,Feet, HP, Drive	3 1200,320,150, VS	_					
Pump 2 (Capacity, TDH, Power, Drive)	GPM,Feet, HP, Drive	1200,320,150, VS	-		9. BOOSTER PUMP STATION			
Pump 3 (Capacity, TDH, Power, Drive) Total Pumping Capacity without Standby	GPM,Feet, HP, Drive GPM	1200,320,150, VS 3600	_	Total pumping capacity with Q2 and	Treated Water Pumps Type		Vertical Turbine	
				Saugus wells during emergency conditions	Stages	No.	2	
4. EQUALIZATION TANK					Number of Pumps Pump 1 (Capacity, TDH, Power, Drive)	No. GPM, Feet, HP, Drive	3 1700, 100, 60, FS	
Type Operating Capacity	gal	Steel 29,000	_		Pump 2 (Capacity, TDH, Power, Drive)	GPM, Feet, HP, Drive	1700, 100, 60, FS	
Minimum Nominal Capacity per Tank	gal	32,000	_		Pump 3 (Capacity, TDH, Power, Drive) Total Pumping Capacity without Standby	GPM, Feet, HP, Drive GPM	1700, 100, 60, FS 2800 (Future) — 3400 (Current)	
Maximum Diameter Maximum Height (Shell)	ft-inches ft-inches	18.46' 16.12'	_		Suction Gradient	Feet Feet	1390 (Future) — 1420 (Current) 1490 (at 1700 gpm) — 1520 (at 3400 gpm)	
Retention Time at Design Flow of 2400 gpm	minutes	12	-		Discharge Gradient	1 661	1490 (dt 1700 gpiii) — 1320 (dt 3400 gpiii)	
5. CHLORAMINE								
Residual (Avg/Max) Chlorine (as Cl2) to NH3 (as N) — Typical	mg/l (as Cl2)	2.5/3.5 5.0 to 1	=		Notes:			
Chlorine (as Cl2) to NH3 (as N) — Typical Chlorine (as Cl2) to NH3 (as N) — Min	Weight Ratio Weight Ratio	5.0 to 1 4.0 to 1	_		1. Speed, FS - Fixed Speed, VS - Variable Speed			
6. SODIUM HYPOCHLORITE FEED SYSTEM			5		 Storage Tank sized for combined Saugus and Q2 From US Filter data to achieve saturation pH 	flows of 3600 gpm		
Flow (Avg/Max)	GPM	2400/3600	-		4. Two pumps each (duty and standby) used for Q2			
Concentration (% by weight NaOCI) Specific Gravity	%	12.5 1.2	-		5. Q2 treated water to be disinfected by existing sy	stem		
Available Chlorine	lb/gal	1.19	-					
Dosage (Avg/Max) Use (Avg/Max)	mg/l as Cl2 ppd as Cl2	4/4.5 97/163	_					
Storage Tank	• •	377100						
Type Operating Capacity	Closed Top Vertical gal	4200	_	2				
Nominal Capacity	gal	5000	-					
Maximum Diameter Maximum Height	ft ft	10 9.83	_					
Supply at Average Use of 2400 gpm	days	44	-					
Supply at Maximum Use of 3600 gpm Metering Pumps	days	26	-					
Туре	Mechanical Diaphragm	•					RECORD DRAWING	SS
Number of Pumps Maximum Pump Capacity	2 (One Standby) GPH	2 10	-				THESE RECORD DRAWINGS HAVE BEEN PREPARED BASED ON THE CONTRACTOR AND OTHERS. KENNEDY/JENKS CONSULTANT	INFORMATION I
Pump Total Dynamic Head	ft	20	-				CURACY OR COMPLETENESS OF THE INFORMATION PROVIDED.	O THEM AND
Pump Motor Speed Control	HP VS	0.5	-				THE ACCURACY OR COMPLETENESS OF THESE RECORD DRAWII DRAWINGS ASSUME ALL RISK OF LOSS RESULTING FROM THEI	NGS. USERS C R USE.
							USERS OF THESE DOCUMENTS IN ELECTRONIC FORM ARE CAL FIRST DETERMINING WHETHER CHANGES MAY HAVE BEEN MADI	TIONED AGAIN:
							Subsequent to their preparation by Kennedy/Jenks Co	NSULTANTS. O
							SIGNED AND SEALED HARD COPIES OF THESE DOCUMENTS AR THE CONTRACT DOCUMENTS PREPARED BY KENNEDY/JENKS O	
SE OF DOCUMENTS				SCALES DESIGNED AdB	CASTAIC LAKE WATER	AGENCY	PERCHLORATE TREATMENT	CLW NO.
MENT, INCLUDING THE INCORPORATED			0.	1" DRAWN	LOS ANGELES COUNTY, CALIF			JOB NO.
AN INSTRUMENT OF SERVICE FOR CT AND SHALL NOT BE USED FOR ANY			0	25mm 25mm R00	LOO ANGELEO COUNTY, CALIF	VI WINT		DAT
DIECT WITHOUT THE WRITTEN	nmonia Storage Tank Design Criteria	MAY 2014	1 FS	IF THIS BAR IS NOT DIMENSION SHOWN, Exp. 6/30/07			DESIGN BASIS	
				ADJUST SCALES CIVIL CHECKED	Kennedy/Jenks Consult	ante		SHE
RECORD I	RAWINGS	JULY 2010	0 JTD	ACCORDINGLY. KCA	1000 HILL ROAD, SUITE 200, VENTURA, CA 9			G

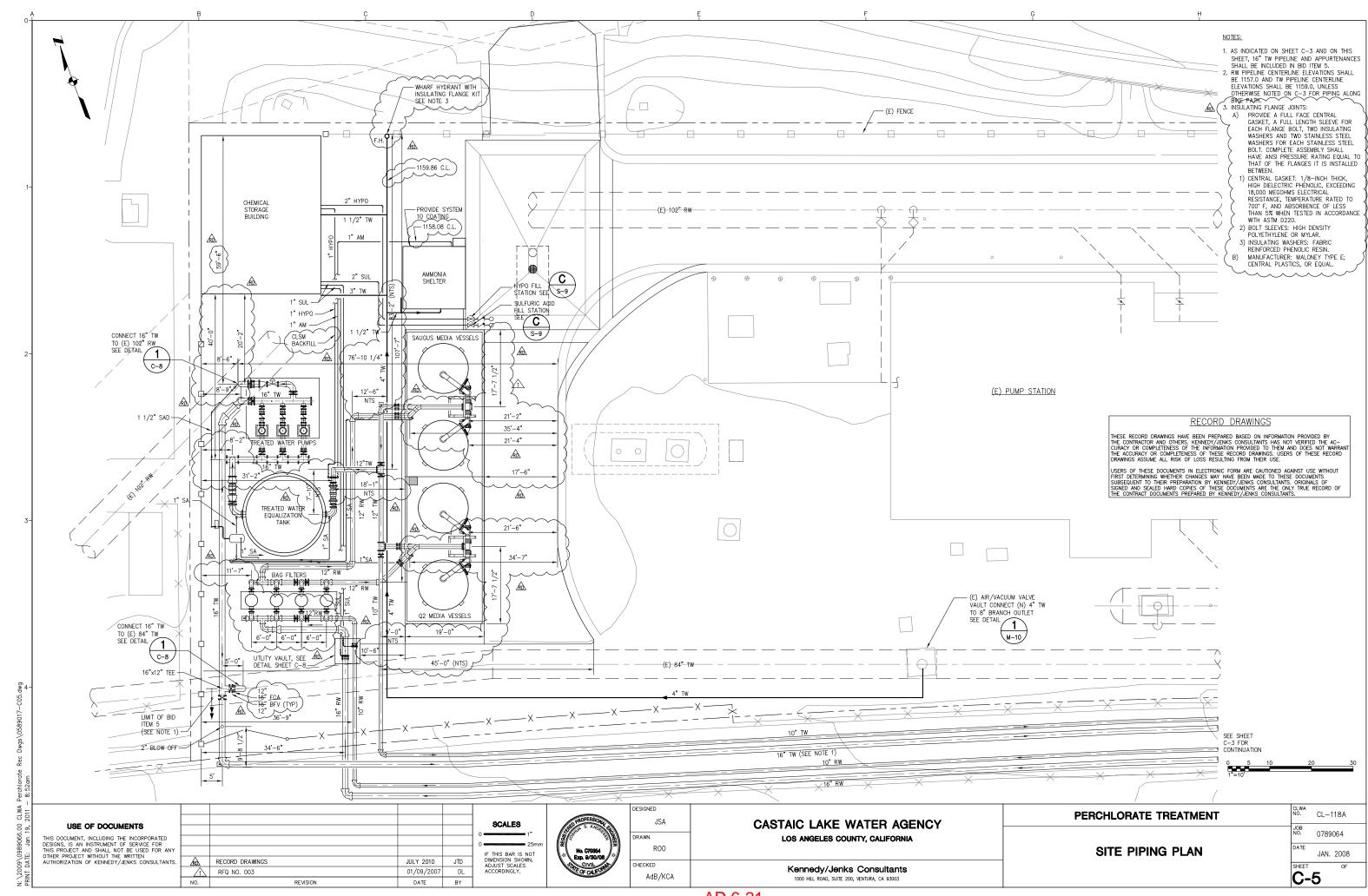


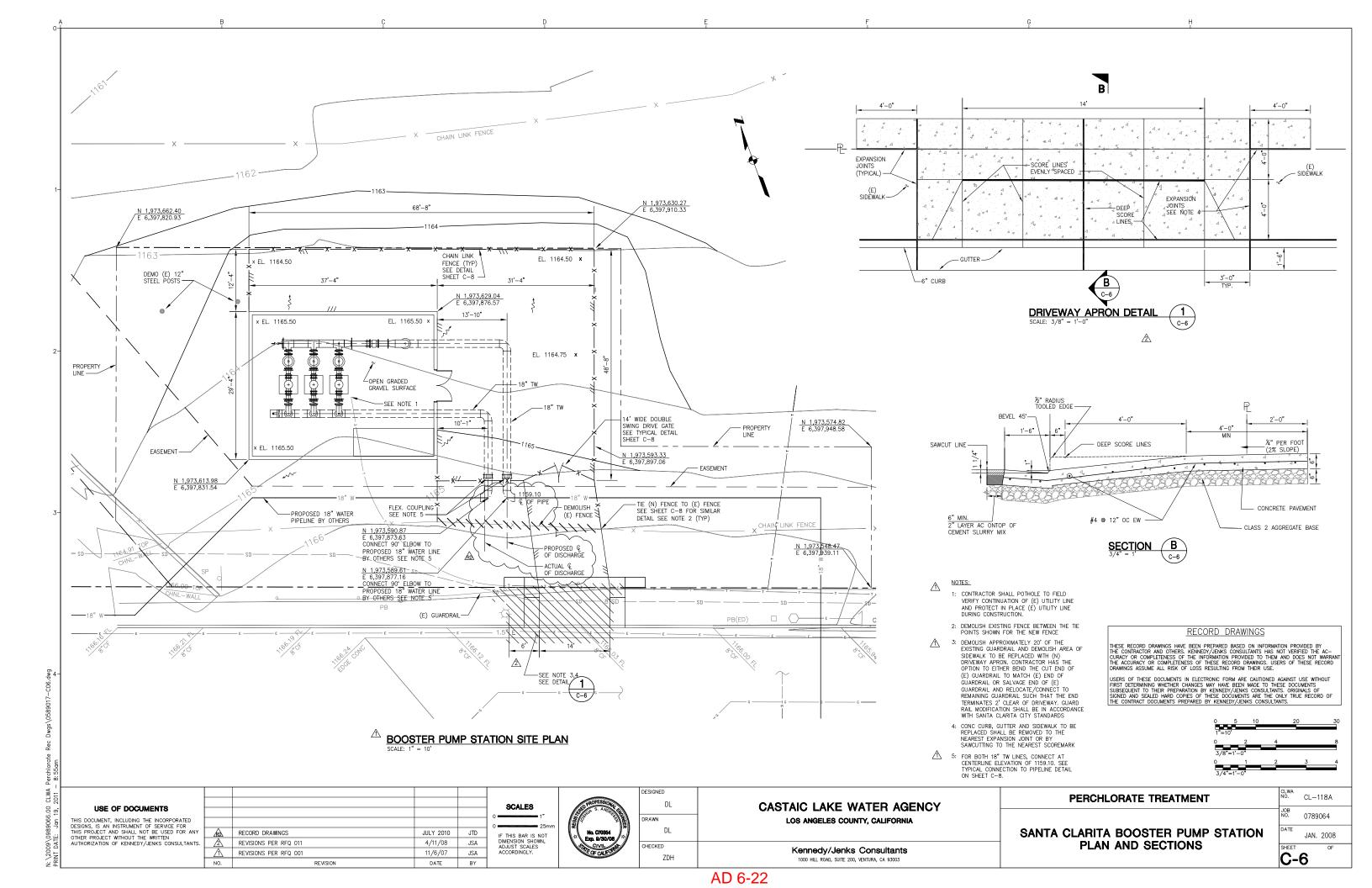


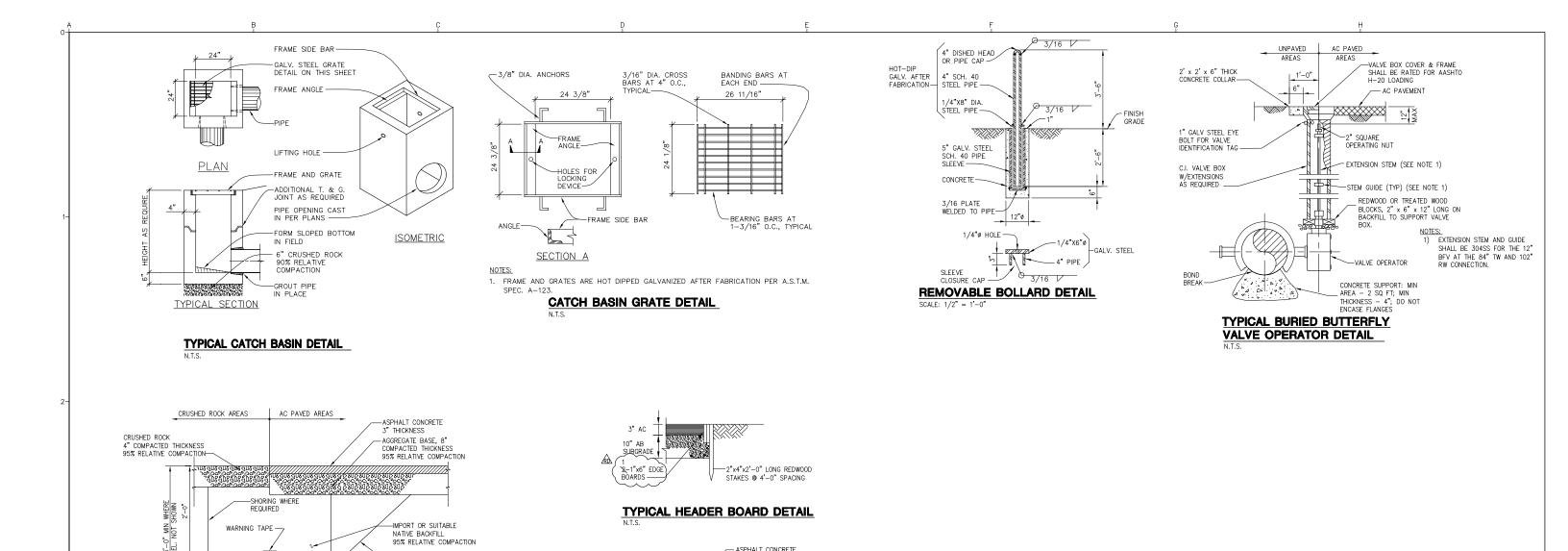












ASPHALT CONCRETE

3" COMPACTED THICKNESS

8" UNTREATED AGGREGATE

BASE, 95% RELATIVE COMPACTION

TYPICAL ASPHALT CONCRETE PAVING DETAIL

-SLOPE TRENCH AS REQUIRED

-2" SCH 40 PVC SEE NOTE 5

WITH OSHA AND CAL OSHA.

CLEARANCE BETWEEN PIPES.

ELECTRICAL DRAWINGS.

ALL TRENCH CONSTRUCTION SHALL BE IN ACCORDANCE

3. TW PIPELINES SHALL BE INSTALLED 4' MIN. HORIZONTALLY

4. WHEN MULTIPLE PIPELINES WITH DIA > 4" ARE INSTALLED IN THE SAME TRENCH PROVIDE 1' MIN HORIZONTAL

5. PROVIDE 2" SCH 40 PVC PIPE WHERE SHOWN ON

FROM, AND 1' MIN. VERTICALLY ABOVE PARALLEL RW PIPELINES. WHERE RW AND TW PIPELINES CROSS, INSTALL RW BELOW TW WITH 1' MIN VERTICAL CLEARENCE.

2. SEE SPECIFICATIONS FOR BEDDING REQUIREMENTS.

NOTES:

BEDDING

6" MIN.

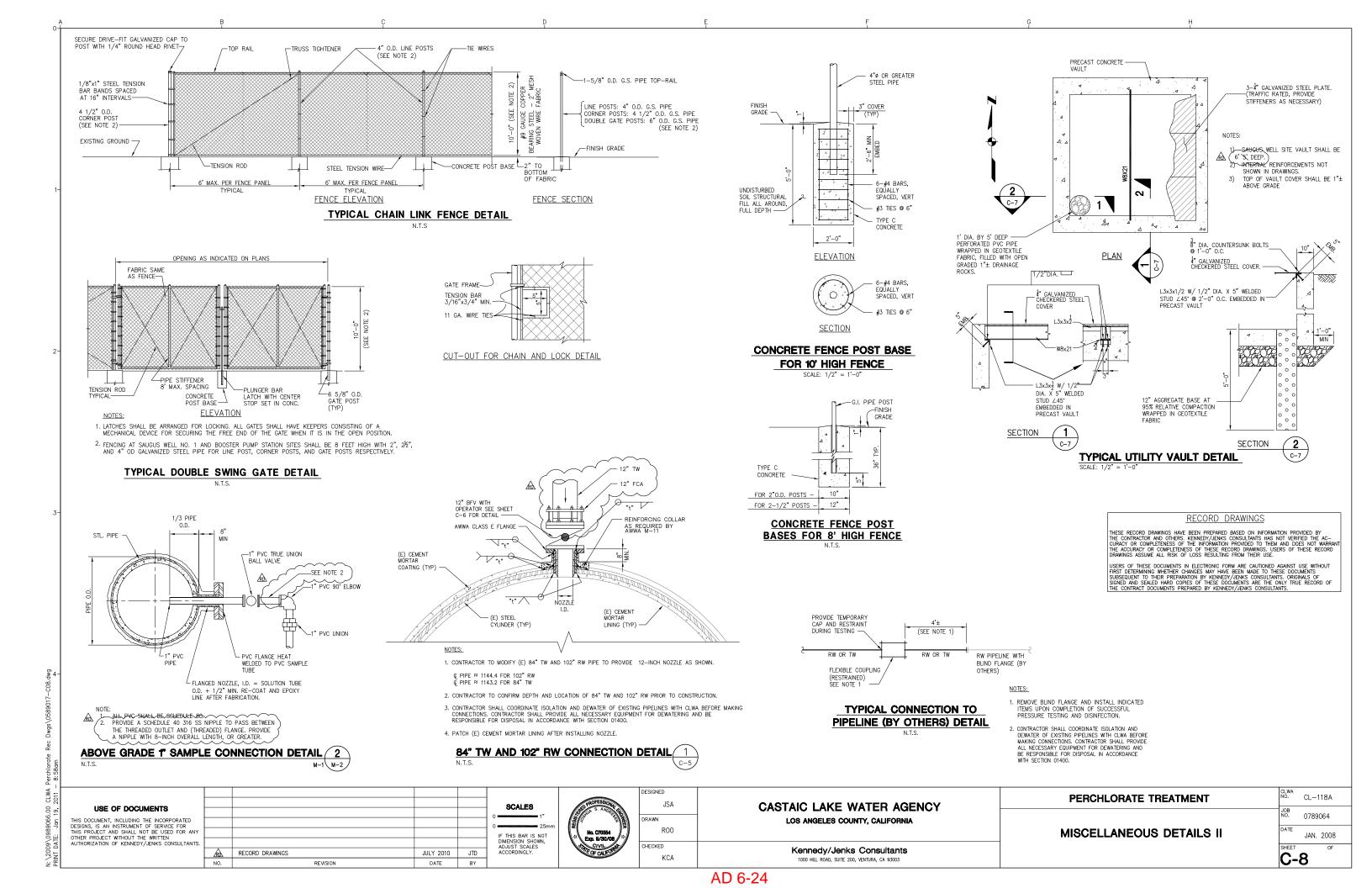
TYPICAL TRENCH DETAIL

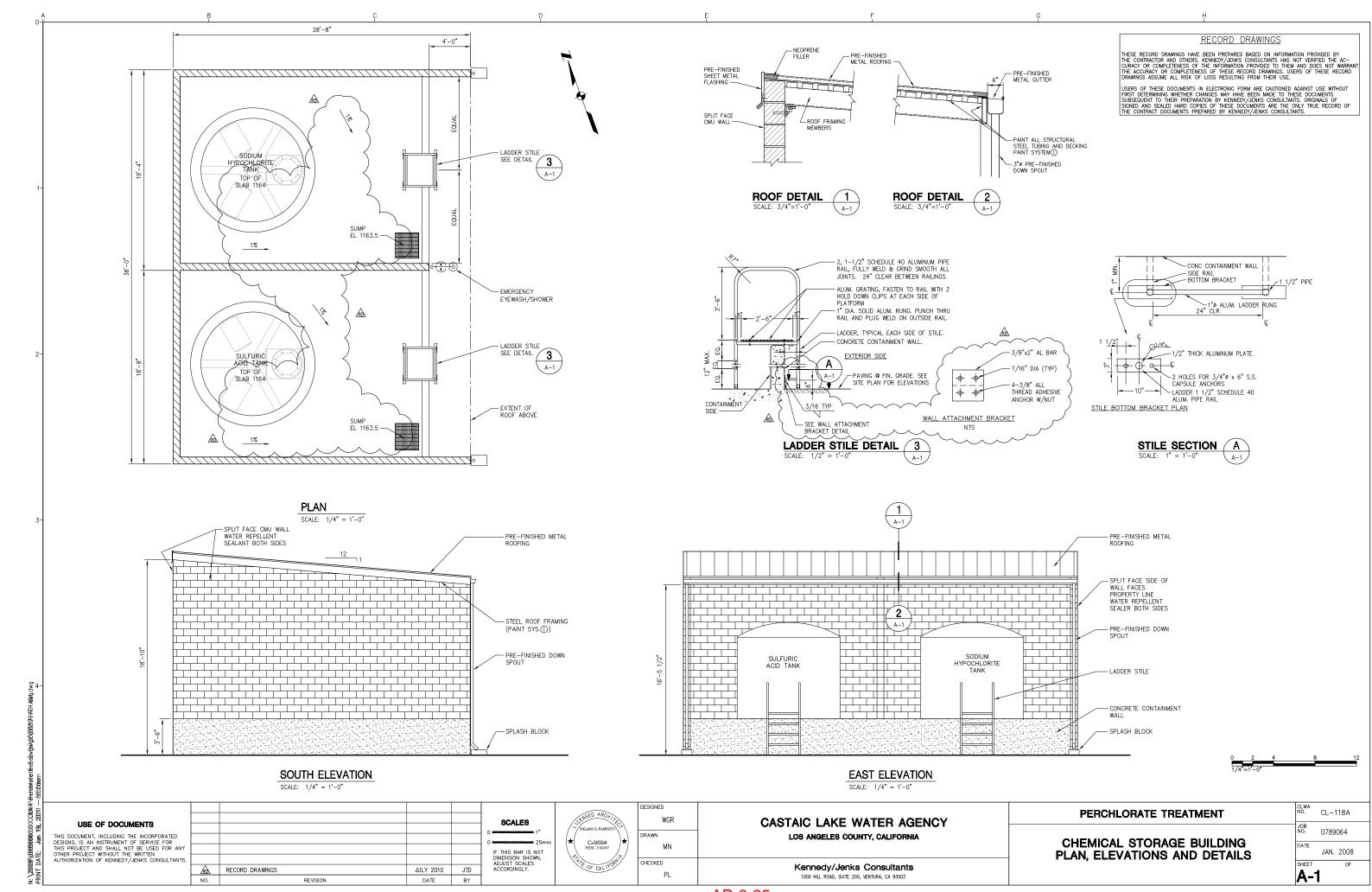
RECORD DRAWINGS

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USERS OF THESE DOCUMENTS IN ELECTRONIC FORM ARE CAUTIONED AGAINST USE WITHOUT FIRST DETERMINING WHETHER CHANGES MAY HAVE BEEN MADE TO THESE DOCUMENTS SUBSEQUENT OT THEIR PEPARATION BY KENNEDY J.EINES CONSULTANTS. ORIGINALS OF SIGNED AND SEALED HARD COPIES OF THESE DOCUMENTS ARE THE ONLY TRUE RECORD OF THE CONTRACT DOCUMENTS PREPARED BY KENNEDY J.EINES CONSULTANTS.

DESIGNED PERCHLORATE TREATMENT CL-118A JSA SCALES CASTAIC LAKE WATER AGENCY **USE OF DOCUMENTS** 0789064 LOS ANGELES COUNTY, CALIFORNIA R00 **MISCELLANEOUS DETAILS I** IF THIS BAR IS NOT JAN. 2008 HECKED Kennedy/Jenks Consultants RECORD DRAWINGS JULY 2010 JTD KCA 1000 HILL ROAD, SUITE 200, VENTURA, CA 93003 REVISION DATE





- 1. DESIGN AND CONSTRUCTION SHALL CONFORM TO THE 1997 UNIFORM BUILDING CODE, THE 2001 CALIFORNIA BUILDING CODE AND THE REFERENCED BUILDING CODE STANDARDS
- 2. THESE NOTES AS WELL AS THE TYPICAL DETAILS APPLY TO ALL PARTS OF THE PROJECT, UNLESS NOTED OTHERWISE
- 3. SHOP DRAWINGS FOR THIS CONTRACT SHALL BE COORDINATED WITH FAVORABLY REVIEWED EQUIPMENT MANUFACTURER'S DRAWINGS.
- 4. DIMENSIONS NOTED WITH AN ASTERISK, " * ", ARE TO BE COORDINATED WITH FAVORABLY REVIEWED EQUIPMENT MANUFACTURER.

- . THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED BY THE LOCAL BUILDING INSPECTOR AND AS DESCRIBED IN THE SPECIFICATIONS.
- 2. THE CONTRACTOR SHALL SELECT, INSTALL AND MAINTAIN SHORING, SHEETING, BRACING THE CONTRACTOR SHALL SELECT, INSTALL AND MAINTAIN SHORING, SHEELING, BRACK AND SLOPING AS NECESSARY TO MAINTAIN ASFE EXCAVATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING FULL COMPLIANCE WITH 29 CFR PART 1926 OSHA SUBPART P EXCAVATIONS AND TRENCHES REQUIREMENTS. ALL EARTHWORK ST BE PERFORMED IN STRICT ACCORDANCE WITH APPLICABLE LAW, INCLUDING LOCAL ORDINANCES, CALOSHA, CALIFORNIA CIVIL CODE AND CALIFORNIA DEPARTMENT OF INDUSTRIAL SAFETY REQUIREMENTS, AND APPLICABLE OSHA REQUIREMENTS.

SPECIAL INSPECTIONS AND STRUCTURAL OBSERVATIONS

- THE CONTRACTOR SHALL NOTIFY THE ENGINEER 48—HOURS BEFORE PLACEMENT OF REINFORCING STEEL AND CONCRETE SO THAT THE SUBGRADE OF EXCAVATIONS MAY BE INSPECTED BY THE GEOTECHNICAL ENGINEER.
- THE GEOTECHNICAL ENGINEER SHALL VERIFY BACKFILL MATERIAL AND BACKFILLING PROCEDURES AND PROVIDE SOIL COMPACTION TESTS.
- 3. STRUCTURAL OBSERVATION SHALL BE PROVIDED BY THE DESIGN ENGINEER(S) OF RECORD OR THEIR AUTHORIZED REPRESENTATIVES IN ACCORDANCE WITH UBC 97, SECTION 1702. STRUCTURAL OBSERVATION SHALL CONSIST OF SITE MISTS AT INTERVALS.

 APPROPRIATE TO THE STAGE OF CONSTRUCTION TO OBSERVE CONSTRUCTION IN PROGRESS AND REVIEW OF TESTING AND INSPECTION REPORTS FOR GENERAL COMPLIANCE WITH THE CONSTRUCTION DISCONSISTED BY A MORE OF THE STRUCTURE O CONSTRUCTION DOCUMENTS RELATING TO THE STRUCTURAL WORK AND THE NONSTRUCTURAL COMPONENTS AND EQUIPMENT ANCHORAGE
- SPECIAL INSPECTION IN ACCORDANCE WITH UBC 97, SECTION 1701, SHALL BE REQUIRED AS INDICATED IN THE SPECIAL INSPECTION AND TESTING SCHEDULE ON THIS SHEET.

SOIL AND FOUNDATIONS

- . GEOTECHNICAL INVESTIGATIONS FOR DESIGN PURPOSES AT THIS SITE WERE MADE FOR CASTAIC LAKE WATER AGENCY BY SCHAEFER DIXON ASSOCIATES, INC. IN A REPORT DATED NOVEMBER 6, 1991
- IN ACCORDANCE WITH THE UBC CHAPTER 18 THE SOILS AT THE RIO VISTA PUMP STATION SITE ARE GENERALLY CLASSIFIED AS ARTIFICIAL FILL ABOVE MEDIUM DENSE SAND
- 3. THE DESIGN BEARING CAPACITY OF THE SOILS IS 2,500 PSF FOR FOOTINGS.
 BEARING CAPACITY OF SOILS ARE 3,300 PSF FOR LOAD COMBINATIONS INCLUDING WIND OR SEISMIC LOADS
- 4. SOIL SHALL BE EXCAVATED TO THE ELEVATIONS INDICATED ON THE DRAWINGS FOR FOUNDATIONS. THE SUBGRADE SHALL BE PREPARED AS INDICATED ON THE DRAWINGS AND SPECIFICATIONS AND APPROVED BY THE GEOTECHNICAL ENGINEER. EXCAVATED MATERIAL SHALL BE REPLACED WITH STRUCTURAL FILL AS SHOWN ON THE DRAWINGS. FOUNDATIONS SHALL BE CONSTRUCTED AGAINST UNDISTURBED NATIVE COMPETENT MATERIAL OR COMPACTED STRUCTURAL FILL

- MINIMUM LOADING REQUIREMENTS PER CHAPTER 16 OF THE 1997 UNIFORM BUILDING CODE INCLUDING LATEST REVISION.
- 2. DEAD LOAD:

LI۱	E LOADS:	
•	CONCRETE VAULTS AND COVERS	AASHTO HS20-44
•	FIXED STAIRWAYS	100 PSF UNIFORM, 1,000 LBS POIN
•	GRATING AND CHECKERED PLATE	150 PSF UNIFORM, 1,000 LBS POIR
•	ACCESS HATCHES	100 PSF UNIFORM, 1,000 LBS POIL
•	SIDEWALKS AND DRIVEWAYS	300 PSF UNIFORM

AS CALCULATED

ESSENTIAL FACILITIES

- HANDRAILS, GUARDRAILS AND STAIRRAILS 4. WIND LOAD:
- IMPORTANCE FACTOR, IW
 BASIC WIND SPEED
 EXPOSURE

OCCUPANCY CATEGORY

- OCCUPANCY CATEGORY
 SEISMIC IMPORTANCE FACTOR, I
 SEISMIC IMPORTANCE FACTOR, Ip
 SEISMIC ZONE FACTOR, Z
 SOIL PROFILE TYPE
 SEISMIC SOURCE TYPE
 SEISMIC SOURCE TYPE SEISMIC COEFFICIENT, Ca
- SEISMIC COFFFICIENT, C NEAR SOURCE COEFFICIENT FACTOR, No.

- 1. UNLESS OTHERWISE NOTED, STRUCTURAL STEEL SHALL CONFORM TO ASTM A36. W- AND WT- SHAPES SHALL CONFORM TO ASTM A992. PLATES CONNECTING TO W- AND WT- SHAPES SHALL CONFORM TO ASTM A572 GRADE 50. HOLLOW STRUCTURAL SECTIONS (HSS) SHALL CONFORM TO ASTM A500 GRADE B. STEEL PIPE SHALL CONFORM TO ASTM A53 TYPE E OR S.
- . ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED BY AN AISC CERTIFIED FABRICATOR IN CONFORMANCE WITH THE LATEST AISC SPECIFICATION PARTS 1 THRU 4 AND THE "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS".
- 3. CONNECTIONS AND BOLTS SHALL CONFORM TO THE AISC ALLOWABLE STRESS DESIGN SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS. CONNECTIONS SHALL USE ASTM A325-X BOLTS LINLESS NOTED OTHERWISE PROVIDE WASHERS AT ALL CONNECTIONS WITH OVERSIZE OR SHORT SLOTTED HOLES.
- 4. WELD ELECTRODES SHALL CONFORM TO AWS A5.1 OR A5.5 E70XX ELECTRODES. WELDING SHALL BE DOME BY CERTIFIED WELDERS, WELDING SHALL USE ONLY APPROVED ELECTRODES. WELDING SHALL CONFORM TO THE PROVISIONS OF THE LATEST STRUCTURAL WELDING CODE (AWS D1.1).
- 5. UNLESS NOTED OTHERWISE, STRUCTURAL STEEL COMPONENTS AND CONNECTIONS SHALL BE PAINTED OR PROTECTIVE COATED IN ACCORDANCE WITH THE SPECIFICATIONS.

REINFORCING STEEL

- REINFORCING BARS SHALL BE ASTM A615-GRADE 60.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
- ARRANGEMENT AND DETAILING OF REINFORCING STEEL, INCLUDING BAR SUPPORTS AND SPACERS, SHALL BE IN ACCORDANCE WITH THE LATEST ACI 315 DETAILING MANUAL.
- 4. REINFORCING SHALL LAP A MINIMUM OF OF 1.3 Ld AT SPLICES UNLESS OTHERWISE SHOWN. WHERE Ld IS THE TENSION DEVELOPMENT LENGTH. WHEN BARS OF DIFFERENT SIZE LAP TO EACH OTHER, SPLICE LENGTH FOR THE SMALLER BAR CAN BE USED. DOWELS SHALL HAVE THE SAME SIZE AND SPACING AS THAT OF THE REINFORCING STEE THEY ARE SPLICED NOS SHALL HAVE A MINIMUM LAP AS NOTED ABOVE. BAR SPLICES SHALL BE STAGGERED.
- HOOK BARS AT OPENINGS.
- . NO WELDING OF REINFORCING BARS SHALL BE PERMITTED, UNLESS APPROVAL IN WRITING IS OBTAINED BY THE ENGINEER PRIOR TO CONSTRUCTION.
- DIMENSIONS TO REINFORCING ARE TO BAR CENTERLINES, UNLESS NOTED OTHERWISE BAR COVER IS CLEAR DISTANCE BETWEEN THE BAR AND THE CONCRETE SURFACE. UNLESS NOTED OR SHOWN OTHERWISE BAR COVER FOR REINFORCING STEEL SHALL BE AS

FOOTINGS AND BASE SLABS:

FORMED SURFACES AND	BOTTOMS ON CONCRETE WORK MAT	2-INCH
BOTTOMS AND SIDES IN	CONTACT WITH EARTH	3-INCH

BEAMS AND COLUMNS: DRY CONDITIONS:

STIRRUPS, SPIRALS AND TIES PRINCIPAL REINFORCEMENT	1 1/2-INCH 2-INCH
EXPOSED TO EARTH, WATER OR WEATHER: STIRRUPS, SPIRALS AND TIES PRINCIPAL REINFORCEMENT	2-INCH 2 1/2-INCH
WALLS:	
LESS THAN 12-INCHES THICK	1 1/2-INCH
12 INCHES OR OVER IN THICKNESS	2 1/2-INCH

CEMENT SHALL BE ASTM C150 TYPE II FOR ALL STRUCTURES. CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH AS NOTED IN THE TABLE BELOW AND AS FURTHER DEFINED IN THE SPECIFICATIONS:

CONCRETE STRENGTH (PSI)			
TYPE	STRENGTH	LOCATION	
А	3,500	NOT USED	
В	4,500	NOT USED	
С	4,000	BLDG BASIC CONC - SLABS, EQUIPMENT PADS, & WALLS	
D	4,500	NOT USED	
E	3,000	MISCELLANEOUS STRUCTURES & SITEWORK	
F	5,000	ARCHITECTURAL FENCE POSTS	

- 2. CONCRETE CONSTRUCTION SHALL CONFORM TO ACI 318 (LATEST EDITION) INCLUDING BAR BENDS AND HOOKS, UNLESS DETAILED OTHERWISE.
- SUBMIT CONCRETE AND MASONRY LIFT DRAWINGS SHOWING THE LOCATION OF CONSTRUCTION JOINTS, WATERSTOPS AND OTHER TYPES OF JOINTS OTHER THAN SPECIFIED OR SHOWN ON THE DRAWINGS FOR FAVORABLE REVIEW BY THE ENGINEER BEFORE START OF WORK ON FORMS, REINFORCING STEEL OR PLACING CONCRETE. ANY ADDITIONAL VERTICAL OR HORIZONTAL CONSTRUCTION JOINTS SHALL HAVE A STANDARD KEYWAY AND VERTICAL OF FOUNDATION FALL CONTROLLING WITH STALL BE FAVORABLY REVIEWED BY THE ENGINEER, REFER TO SPECIFICATIONS AND TYPICAL DETAILS FOR ADDITIONAL INFORMATION. CONSTRUCTION JOINTS SHALL BE ROUGHENED TO 1/4—INCH AMPLITUDE.
- ROUGHENED TO 174-INCH AMPLITUDE.

 4. OPENINGS, PIPE SLEEVES, CONDUITS, INSERTS AND OTHER EMBEDDED ITEMS SHALL BE
 IN PLACE BEFORE CONCRETE IS PLACED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO
 COORDINATE ARCHITECTURAL, CIVIL, MECHANICAL, ELECTRICAL, LANDSCAPING, HVAC,
 PLUMBING, INSTRUMENTATION AND OTHER PLANS FOR ITEMS REQUIRING SLEEVES AND
 EMBEDMENTS IN CONCRETE WHICH ARE NOT INDICATED OR SHOWN ON STRUCTURAL DRAWINGS, NO PIPES OR SLEEVES SHALL PASS THROUGH STRUCTURAL MEMBERS UNLESS SHOWN ON STRUCTURAL DRAWINGS). COORDINATE WITH EQUIPMENT MANUFACTURERS DRAWINGS FOR ANCHORING DEVICES.
- 5. UNLESS OTHERWISE NOTED, ALL EXPOSED EDGES AND CORNERS SHALL BE CHAMFERED 3/4-INCH. INTERIOR FLOOR SLABS AND EXTERIOR SIDEWALKS SHALL HAVE TOOLED 3/8-INCH RADIUS CONSTRUCTION JOINT.
- EACH FACE CONCRETE SHALL BE REINFORCED A MINIMUM OF NO. 5 BARS AT 12-INCHES EACH WAY.
- 7. CONCRETE ENCASE ALL PIPES AND CONDUITS UNDER CONCRETE SLABS AND FOOTINGS.

- 1. CONCRETE MASONRY UNITS: BLOCKS SHALL HAVE A LIGHTWEIGHT CLASSIFICATION AND CONFORM TO ASTM C90, LATEST EDITION, MINIMUM COMPRESSIVE STRENGTH OF UNITS OF 1.900 PSI WHEN AIR CURED FOR 28-DAYS. MINIMUM COMPRESSIVE STRENGTH OF 1,500 PSI OF MASONRY WALL
- 2. MORTAR: PROPORTION MORTAR TO CONFORM TO THE REQUIREMENTS OF UBC TABLE 21-A (ASTM CZ70) FOR TYPE S MORTAR. DO NOT USE MASONRY CEMENT. RETEMPER MORTAR ONLY BY ADDING WATER INTO THE MORTAR AND THEN WORKING WATER INTO THE MORTAR. RETEMPERING MORTAR BY DASHING WATER OVER THE MORTAR IS NOT PERMITTED. ANY MORTAR UNUSED WITHIN 2 1/2 HOURS OR GROUT THAT IS UNUSED WITHIN 1 1/2 HOURS AFTER INITIAL MIXING SHALL BE REMOVED FROM THE WORK.
- 3. GROUT: MINIMUM GROUT STRENGTH OF 2,500 PSI, INCREASE CEMENT CONTENT OF THE GROUT, AS NECESSARY TO ACHIEVE THE SPECIFIED MASONRY ASSEMBLY STRENGTH (fm) AND ADEQUATE WORKABILITY, GROUT COMPRESSIVE STRENGTH WHEN TESTED PER UBC STANDARD NO. 21-18 SHALL BE EQUAL OR EXCEED THE CONCRETE MASONRY UNIT STRENGTH, GROUT SHALL HAVE A SLUMP BETWEEN 9 AND 10-INCHES AT THE TIME OF PLACEMENT. ALL CELLS SHALL BE FILLED SOLIDLY WITH GROUT, ALL GROUT SHALL BE CONSOLIDATED BY MECHANICA VIBRATION
- 4. ADMIXTURES: ADMIXTURES ARE NOT PERMITTED IN MORTAR OR GROUT UNLESS FAVORABLY REVIEWED BY THE ENGINEER.
- 5. AGGREGATES: SAND FOR MORTAR SHALL CONFORM TO ASTM C144 EXCEPT NOT LESS THAN 3% OF THE SAND SHALL PASS THE NUMBER 100 SIEVE, SAND AND PEA GRAVEL FOR GROUT SHALL CONFORM TO ASTIM C404, TABLE 1, COARSE AGGREGATE, EXCEPT WHEN OTHER GRADINGS ARE SPECIFICALLY APPROVED BY THE ENGINEER

- WATER: WATER USED FOR MORTAR AND GROUT SHALL BE CLEAN AND FREE FROM DELETERIOUS AMOUNTS OF ACIDS, SALTS, ALKALI, AND ORGANIC MATERIALS.
- REINFORCEMENT: REINFORCING SHALL BE ASTM A615—GRADE 60. REINFORCEMENT SHALL BE FULLY EMBEDDED IN GROUT. EMBEDDED ITEMS SHALL BE SECURED IN PLACE PRIOR TO GROUTING. PROWIDE A MINIMUM OF 1—INCH GROUT AROUND BOLTS IN MASONRY. PLACE HORIZONTAL REINFORCING IN BOND BEAM UNITS. VERTICAL REINFORCING SHALL BE HELD IN PLACE AT TOP AND BOTTOM AND AT INTERVALS NOT EXCEEDING 200 BAR DIAMETERS.
 UTILIZE REBAR POSITIONERS TO ACHIEVE VERTICAL REINFORCING PLACEMENT. HORIZONTAL
 REINFORCING SHALL BE PLACED IN BOND BEAM UNITS, EXCEPT LINTEL UNITS SHALL BE
- 8. BEFORE PLACING BLOCK ON CONCRETE, CLEAN CONCRETE, ROUGHEN CONCRETE SO THAT AGGREGATE IS EXPOSED TO 1/4-INCH AMPLITUDE AND APPLY BONDING AGENT.
- LAY ALL MASONRY WITH COMMON OR RUNNING BOND. CONSTRUCT ALL MASONRY TO MAINTAIN AN UNOBSTRUCTED VERTICAL CONTINUITY OF THE CELLS TO BE FILLED. THE VERTICAL ALIGNMENT SHALL BE SUFFICIENT TO MAINTAIN A CLEAR, UNOBSTRUCTED VERTICAL FLUE CONFORMING TO THE REQUIREMENTS IN UBC TABLE 21—C.
- 10. CONSTRUCTION JOINTS: WHEN GROUTING IS STOPPED FOR A PERIOD OF 1 HOUR OR LONGER FORM HORIZONTAL CONSTRUCTION JOINTS BY STOPPING THE GROUT POUR 1 1/2 INCHES MINIMUM BELOW THE UPPER-MOST UNIT, EXCEPT AT THE TOP OF WALLS.
- 11. CONTROL JOINTS: LOCATE CONTROL JOINTS AS SHOWN ON PLANS OR AT 20'-0" MAXIMUM SPACING WHERE NOT SHOWN BUT NOT LESS THAN 2'-0" FROM A JAMB OR OPENING. PLACE LEDGER, LINTEL, OR TOP OF WALL BEAM REINFORCING CONTINUOUS THROUGH EXPANSION AND CONTROL JOINTS, WRAPPING BARS WITH 1/8—INCH THICK BOND BREAKING TAPE 2'-0" BOTH SIDES OF JOINT. DO NOT SPLICE BOND BEAM REINFORCING WITHIN 6'-0" OF AN EXPANSION OR CONTROL JOINT
- 12. SPECIAL INSPECTION: WHERE THE BUILDING, STRUCTURE OR STRUCTURAL ELEMENT REQUIRES SPECIAL INSPECTION AS NOTED ON THE PLANS AND THE REINFORCING SCHEDULE BELOW, PROVIDE SPECIAL INSPECTION IN ACCORDANCE WITH UBC SECTION 1701.7.
- 13. INSPECTION: ALL WORK SHALL BE INSPECTED BY THE OWNER'S REPRESENTATIVE OR THE BUILDING OFFICIAL, THE CONTRACTOR SHALL MAINTAIN ALL WORK ACCESSIBLE AND EXPOSED FOR INSPECTION. INSPECTION SHALL INCLUDE BUT NOT BE LIMITED TO CHECKING CELLS FOR DEBRIS PRIOR TO GROUTING AND SIZE AND PLACEMENT OF REINFORCEMENT, ANCHORS, AND
- 14. REINFORCEMENT TOLERANCES: UNLESS NOTED OTHERWISE ALL VERTICAL WALL REINFORCEMENT PLACED IN A DIRECTION PERPENDICULAR TO THE WALL PLANE SHALL BE PLACED WITHIN A TOLERANCE OF ±1/2 INCH AND ALL LONGITUDINAL REINFORCEMENT SHALL BE PLACED WITHIN A

- SEE SPECIFICATION SECTION 05310 FOR ADDITIONAL STRUCTURAL STEEL ROOF DECK MATERIAL AND INSTALLATION REQUIREMENTS. STRUCTURAL QUALITY STEEL SHEETS WITH SHEAR STRENGTHENING ELEMENTS SHALL BE ASTM A446, GRADE A, HOT-DIP GALVANIZED TO ASTM A525, G90.
- 2. FORM DECK UNITS TO SPAN 3 OR MORE SUPPORTS WITH 2-INCH END LAPS.
- 3. DO NOT USE DECK UNITS FOR STORAGE OR WORKING PLATFORMS. CONSTRUCTION LOADS MUST NOT EXCEED CARRYING CAPACITY OF DECK
- 4. THE DECK OVER THE CHEMICAL STORAGE BUILDING AND THE AMMONIA STORAGE SHELTER SHALL TYPE 1.5B18 MANUFACTURED BY VULCRAFT CO., VERCO, OR APPROVED EQUAL.

•	JILL	L NOOL DEGN LINDI ENTIES LON	TILL LUDIO.
	a)	GAGE	18
	b)	WIDE RIB DECK DEPTH	1-1/2" INCHES
	c)	MOMENT OF INERTIA, I	0.292 IN 4
	.í	CECTION MODULING 10	0.318 IN 3

SECTION MODULUS, +S SECTION MODULUS, -S GALVANIZING ZINC COATED PER ASTM A525 G90

PROVIDE #12 TEK SCREWS TO CONNECT STEEL DECK TO SUPPORTS AS FOLLOWS

- a) 7-#12 TEK SCREWS AT ENDS OF EACH 36-INCH WIDE PANEL AND AT INTERMEDIATE SUPPORTS. b) 11-#10 TEK SCREWS SIDELAP FASTENERS PER EACH 4'-0' SPAN
- DECK ENDS BEARING 2-INCHES ON SUPPORTING MEMBERS OR INTERIOR END LAPS

SPECIAL INSPECTION AND TESTING SCHEDULE

[X] CONTINUOUS PLACEMENT INSPECTION

CONCRETE

EXCEPTIONS: 2,500 PSI OR TYPE E CONCRETE 4 CYLINDERS PER 100 CUBIC YARDS* TEST: 2 @ 7 DAYS, 2 @ 28 DAYS. * EACH MIX PLACED, EACH DAY PLACED 2. BOLTS INSTALLED IN CONCRETE [X] ALL BOLTS 1 LOCATION 3. SPECIAL MOMENT-RESISTING CONCRETE FRAME NOT USED 4. REINFORCING STEEL AND PRESTRESSING TENDONS [X] PLACEMENT INSPECTION 1 STRESSING AND GROUTING OF TENDONS 5. STRUCTURAL WELDING PERIODIC VISUAL INSPECTION [X] SINGLE PASS FILLET WELDS < 5/16"
[X] STEEL DECK WELDED STUDS COLD FORMED STUDS AND JOINTS STAIR AND RAILING SYSTEMS CONTINUOUS VISUAL INSPECTION [] ALL OTHER WELDING REINFORCING STEEL [] OTHER . 6. HIGH STRENGTH BOLTING SNUG TIGHT XÎ AS INDICATED FULL PRETENSION: AS INDICATED 7. STRUCTURAL MASONRY m=1,500 psi FULL STRESSES VERIFCATION OF f'm: [] PRISM TESTS [X] UNIT STRENGTH CONTINUOUS INSPECTION PERIODIC INSPECTION BEFORE DURING [X] 3/5,000 sf UNITS 3/WFFK [X] 3/WEEK MORTAR 8. SPECIAL GRADING, EXCAVATION, AND FILLING [X] PERIODIC INSPECTION 9. SPECIAL CASES [X] ANCHORAGE TO EXISTING CONCRETE/MASONRY (SPEC 05100): [X] INSTALLATION INSPECTION [X] PROOF LOAD TEST TO TWICE ALLOWABLE TENSION VALUE (SUBMIT TEST LOADS TO ENGINEER PRIOR TO TEST) • 10% OF ANCHORS FOR DOWELS . 10% OF ANCHORS FOR SILL PLATE BOLTS • 50% OF ANCHORS FOR EQUIP ANCHORAGE

• 100% OF ANCHORS FOR HOLD-DOWN BOLTS

NOTE: POST-INSTALLED FASTENERS ARE ONLY TO BE INSTALLED WHERE SPECIFCIALLY INDICATED.

• 100% FOR ALL OTHER ANCHORS

EXCAVATION SUPPORT/SHORING

[] UNDERPINNING

JT JOINT NUMBER 1.000 POUNDS KIPS PER SQUARE INCH AASHTO OF STATE HIGHWAY
TRANSPORTATION OFFICIALS LB(S) LB/SF POUND(S) POUND(S) PER SQUARE FOOT LIVE LOAD ANCHOR BOLT LL LLH AGGREGATE BASE LONG LEG HORIZONTAL LLY LONG LEG FORTICAL
LLBB LONG LEG BACK-TO-BACK
LONGIT LONGITUDINAL
LT LIGHT
LW LIGHT WEIGHT AMERICAN CONCRETE ADDIT STEEL CONSTRUCTION AISI MATERIAL AMERICAN IRON AND MAX MB MC MC STEEL INSTITUTE MAXIMUM AITC AMERICAN INSTITUTE OF MACHINE BOLT MOISTURE CONTENT
MISCELLANEOUS CHANNEL
MECHANICAL
MANUFACTURER TIMBER CONSTRUCTION ALUM ALT APA ASSOCIATION MINIMUM APROX MISCELLANEOUS APPROXIMATE ARCH ASTM ARCHITECTURAL METAL AMERICAN SOCIETY FOR (N) NDT NIC NO. NOM NS NSG NTS NON-DESTRUCTIVE TEST(ING) NOT IN CONTRACT BLKG BLDG BLOCKING NOMINAL NEAR SIDE BUILDING NON-SHRINK GROUT NOT TO SCALE BEAM MEMBER OC OD OH ON CENTERS
OUTSIDE DIAMTER
OPPOSITE HAND, OVERHEAD BOTH SIDES BETWEEN BS BTWN OPNG(S) OPENING(S) OPPOSITÈ CHANNEL CALCULATIONS
CENTER—TO—CENTER
CONSTRUCTION JOINT
COMPLETE JOINT PENETRATION CALC'S POUND PER LINEAL FOOT PARTIAL PENETRATION POUND PER SQUARE FOOT POUND PER SQUARE INCH CENTERLINE CLEAR CONTROL JOINT POINT(S) PRESSURE TREATED CNJ COL CONC CONCRETE R. RAD RADIUS RECTANGLE, RECTANGULAR REINFORCING, —MENT REQUIRED RECT REINF REQ'D CONST CONT DBL DIA SCH SF SHT SIM SLBB SLH SLV DIAMETER SCHEDULE SQUARE FOOT DIM DL DIMENSION DEAD LOAD SHEET SHORT LEGS BACK-TO-BACK SHORT LEG HORIZONTAL SHORT LEG VERTICAL DWG(S)

STRUCTURAL ABBREVIATIONS

EACH FACE ELEVATION EMBED EMBEDMENT SATURATED SURFACE DRY EDGE NAILING EQUAL ES EW EXP EXT SYM EXPANSION SYMMETRICAL EXTERIOR

TOP OF TOP AND BOTTOM STRUCTURAL TUBING TYPICAL (F) FD FUTURE UNIFORM BUILDING CODE FIELD NAILING UON UNLESS OTHERWISE NOTED FRP FIBERGLASS ULTRASONIC TESTING REINFORCED PLASTIC FOOT, FEET

VERTICAL VERIFY IN FIELD VERT VIF GA GALV GLB GAGE, GAUGE W/ W/O WITHOUT GLULAM BEAM WIDE FLANGE

WEIGHT, STRUCTURAL TEE WALL THICKNESS HORI7 HORIZONTAI HOLLOW STRUCTURAL SECTION WALL THICKNESS WELDED WIRE FABRIC HIGH WATER LEVEL

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JTD JULY 2010 RECORD DRAWINGS DATE

SCALES. IF THIS BAR IS NOT

No. C45483 Exp. 12/31/08

DESIGNED JKC JKC

DLB

CASTAIC LAKE WATER AGENCY LOS ANGELES COUNTY, CALIFORNIA

> Kennedy/Jenks Consultants 1000 HILL ROAD, SUITE 200, VENTURA, CA 93003

PERCHLORATE TREATMENT

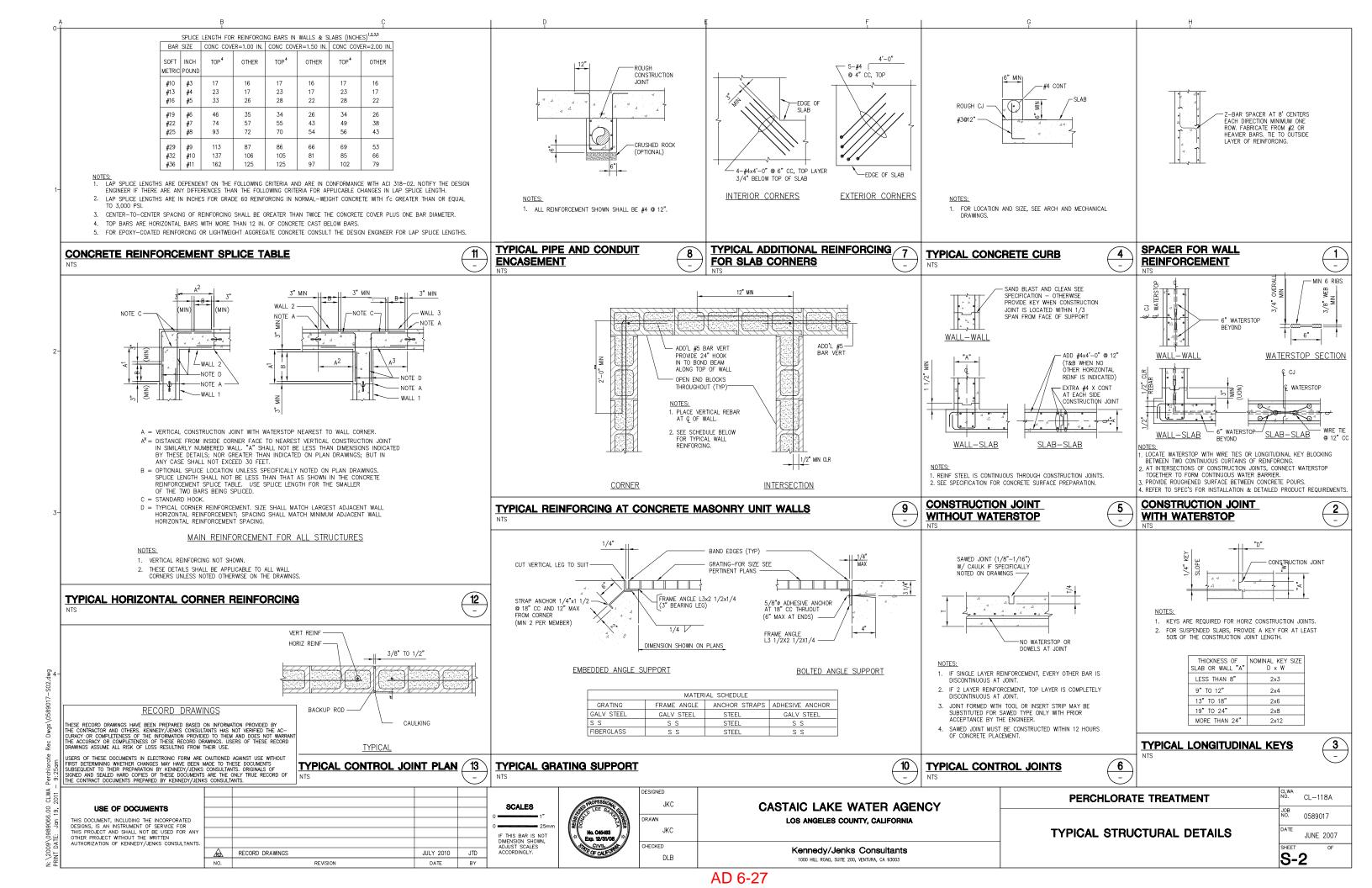
GENERAL STRUCTURAL NOTES SPECIAL INSPECTION & TESTING SCHEDULE & STRUCTURAL ABBREVIATIONS

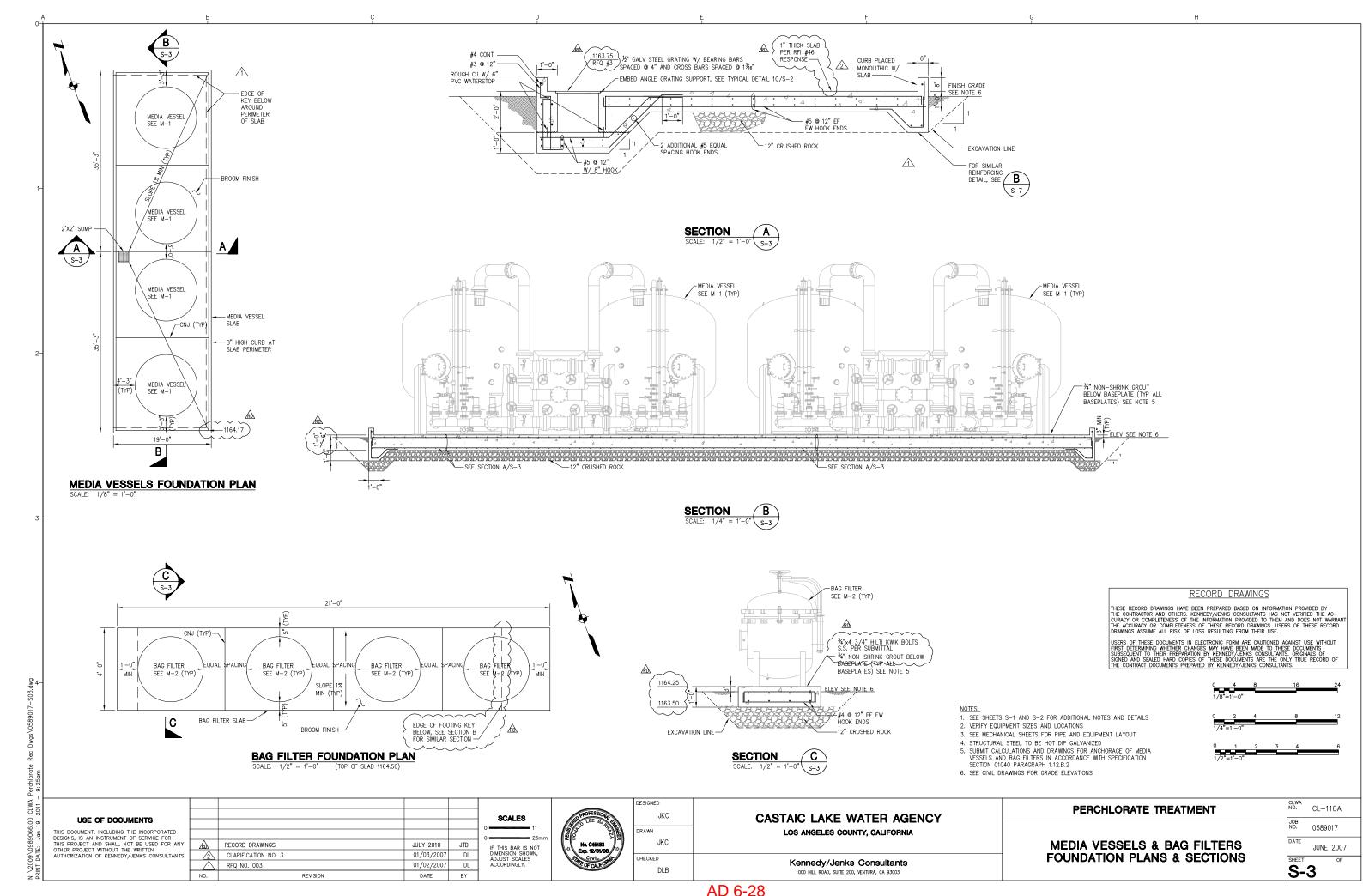
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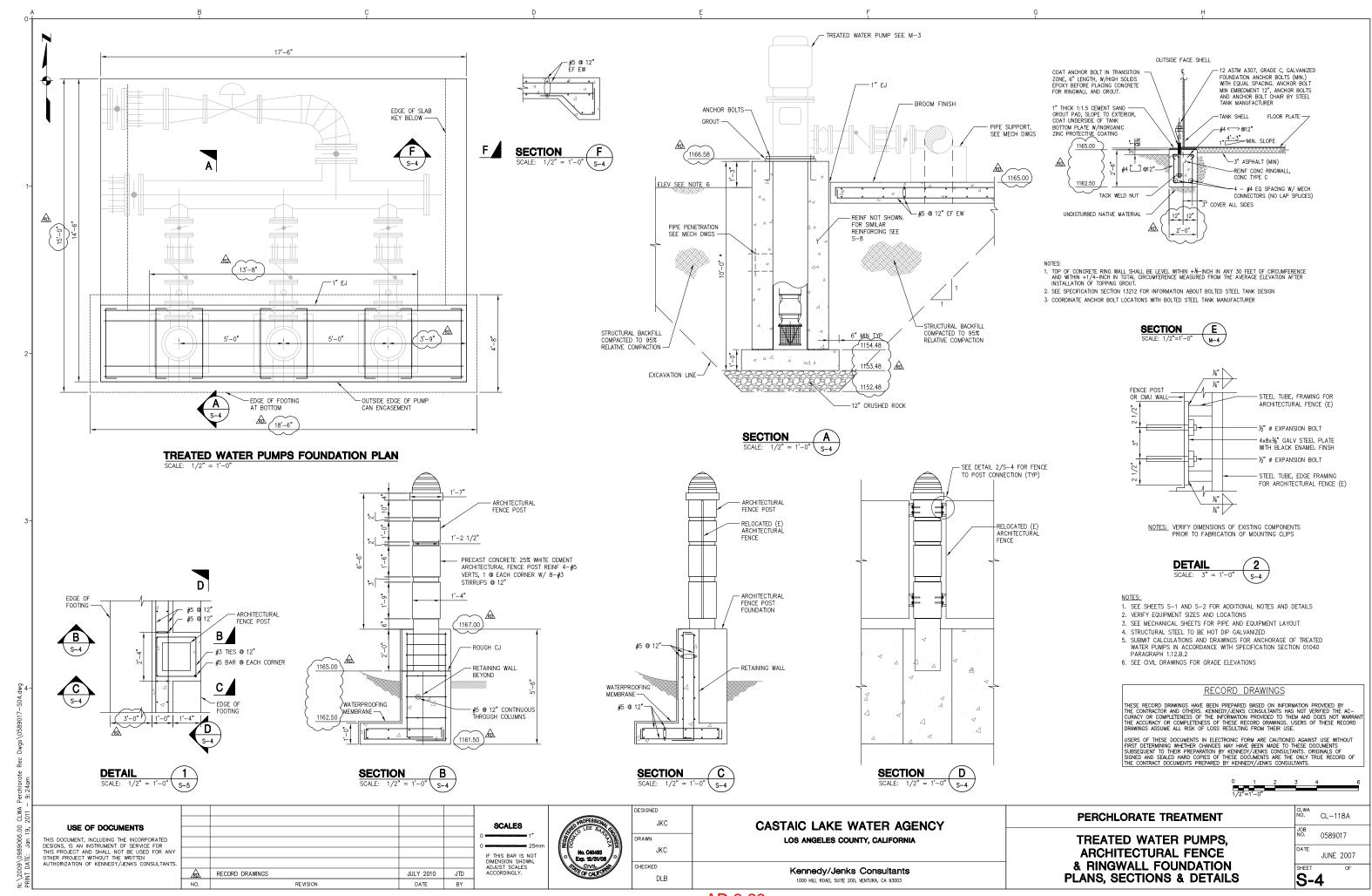
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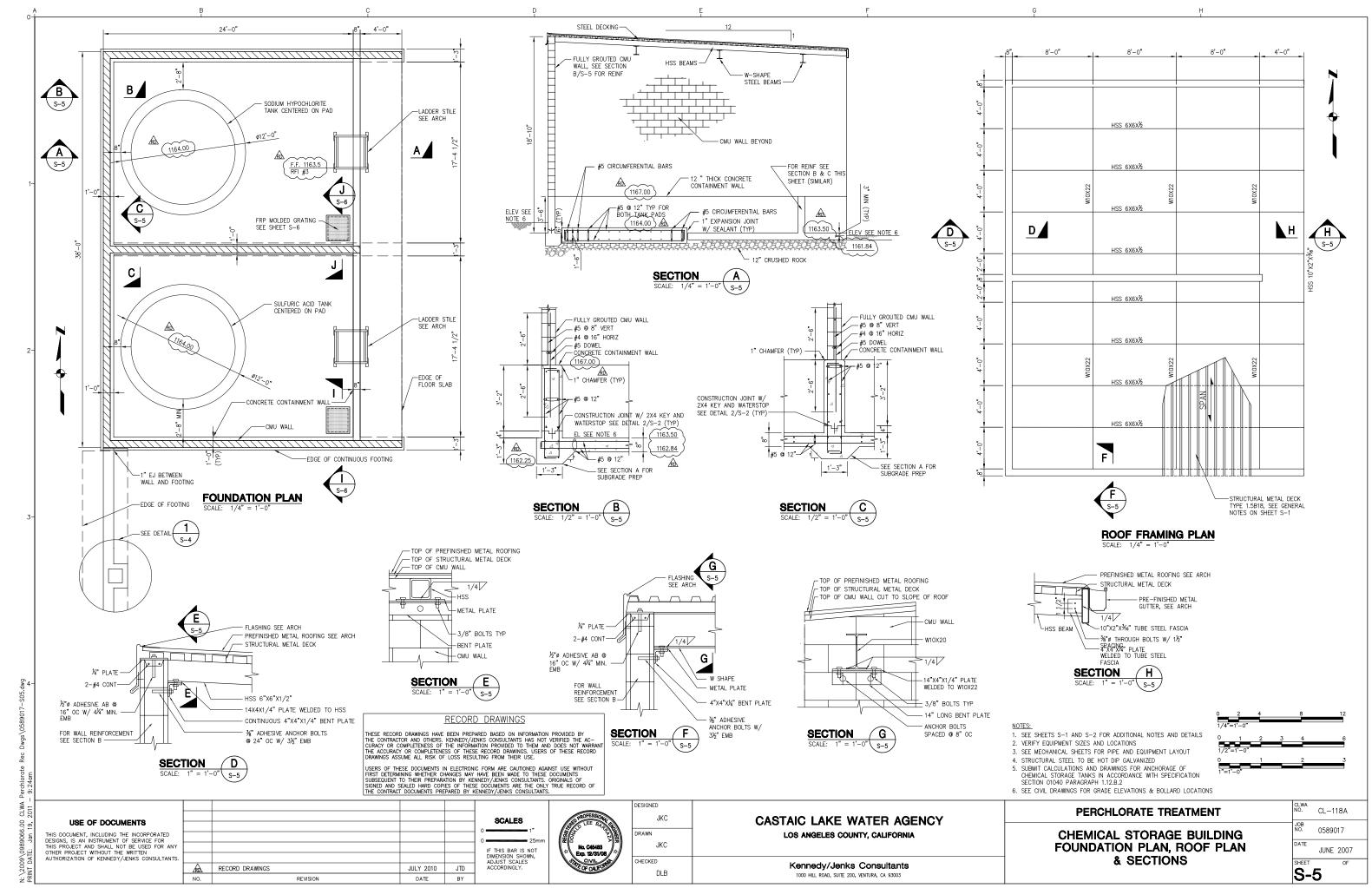
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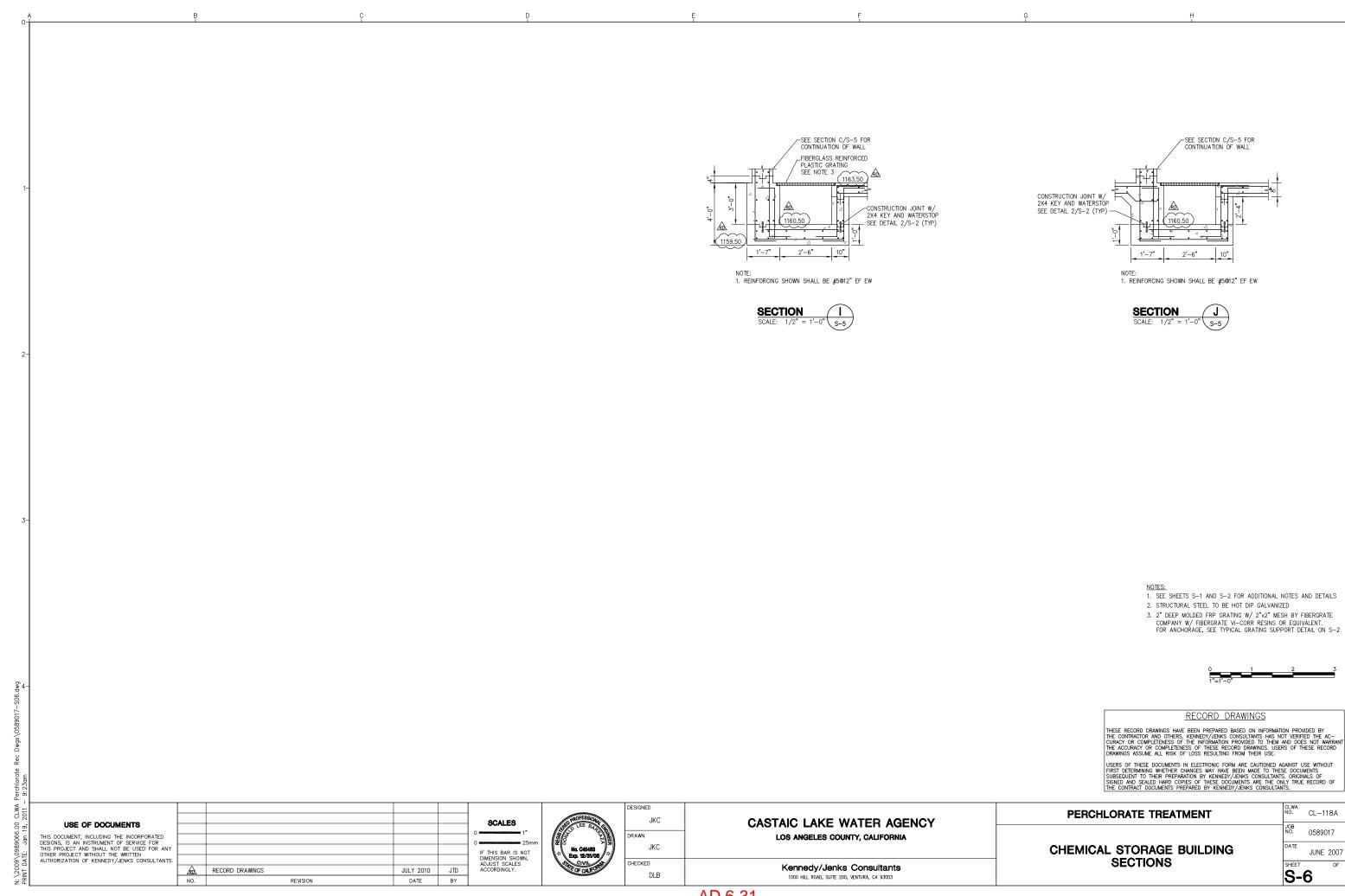
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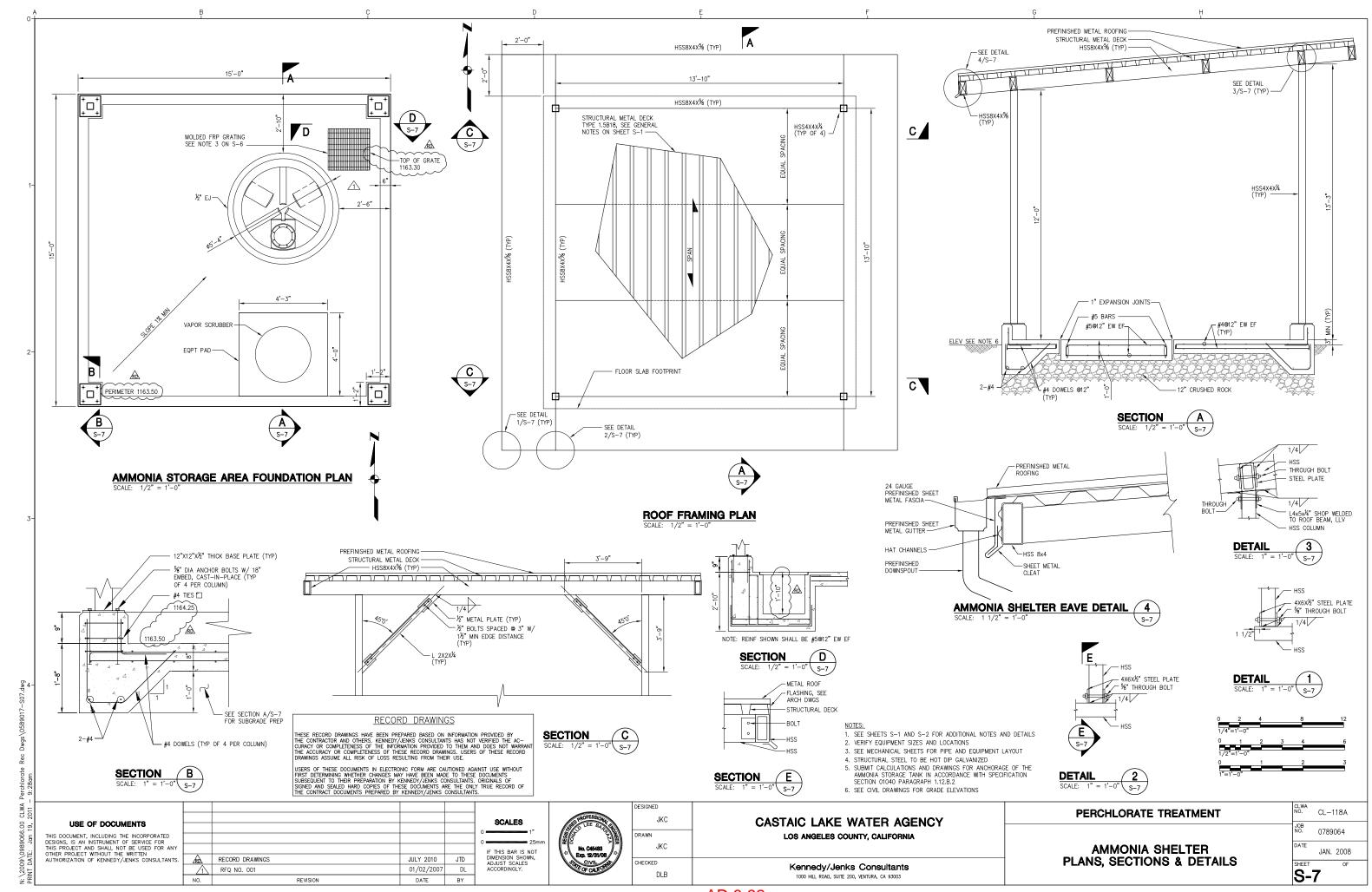


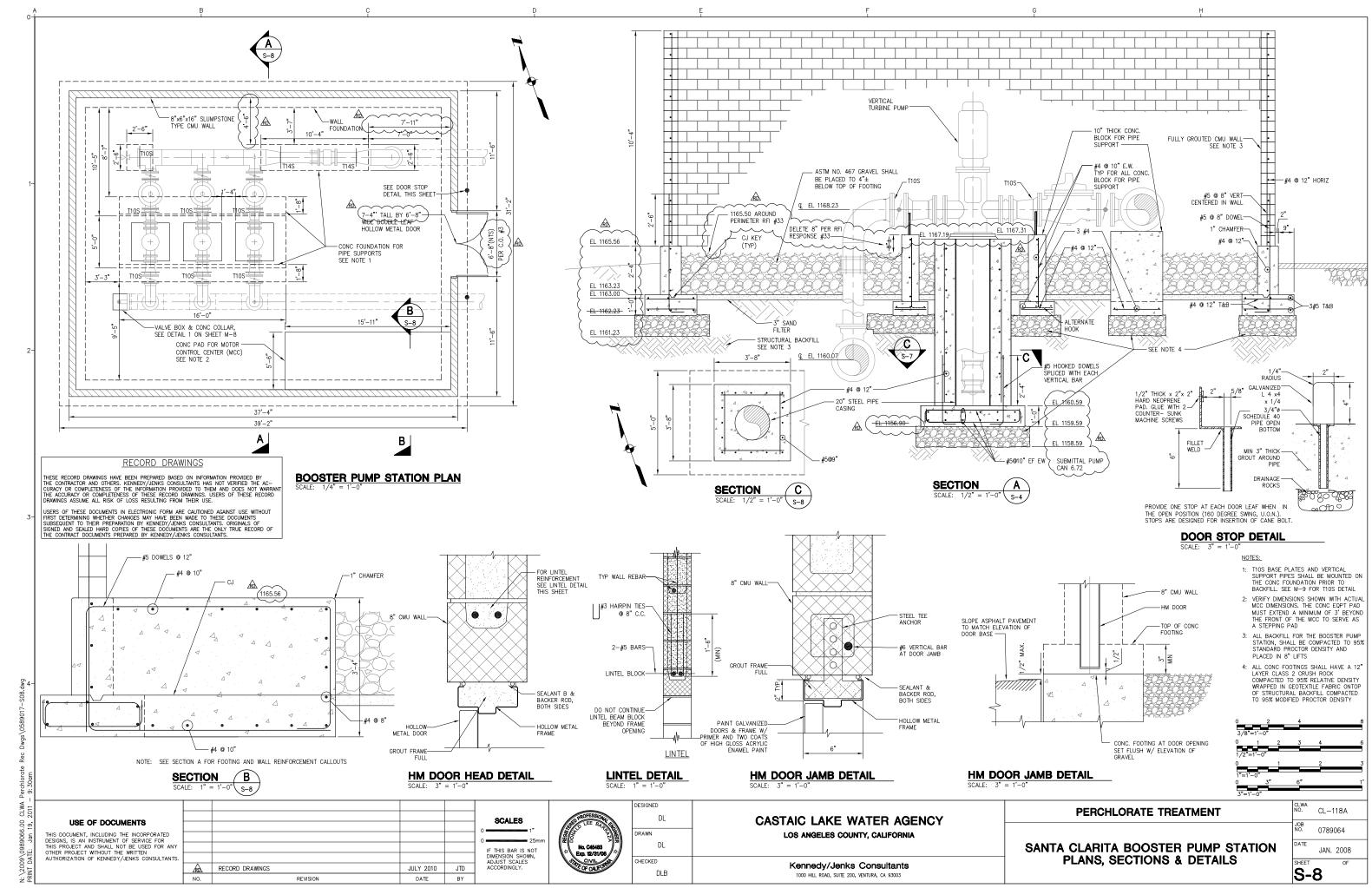


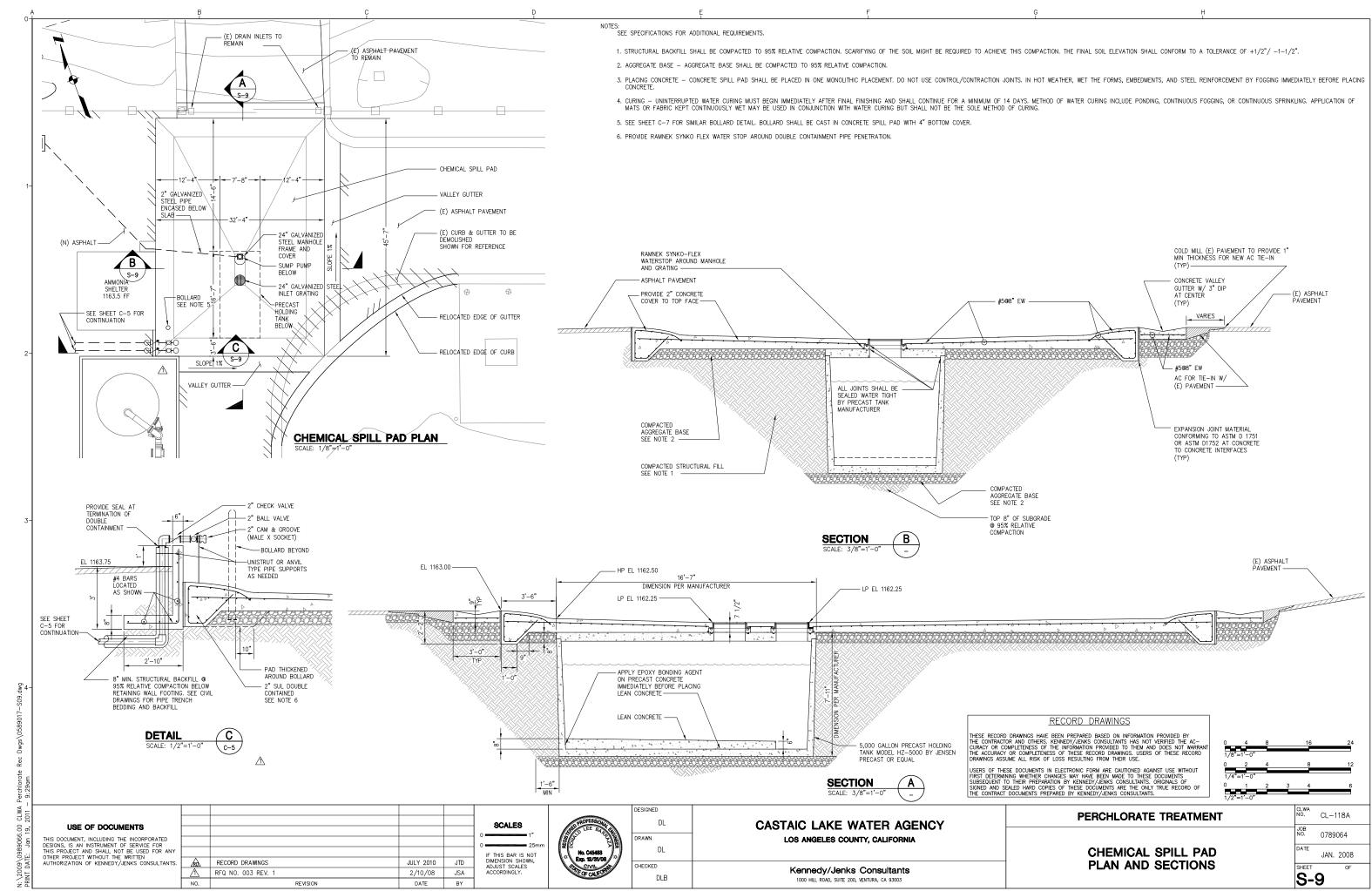


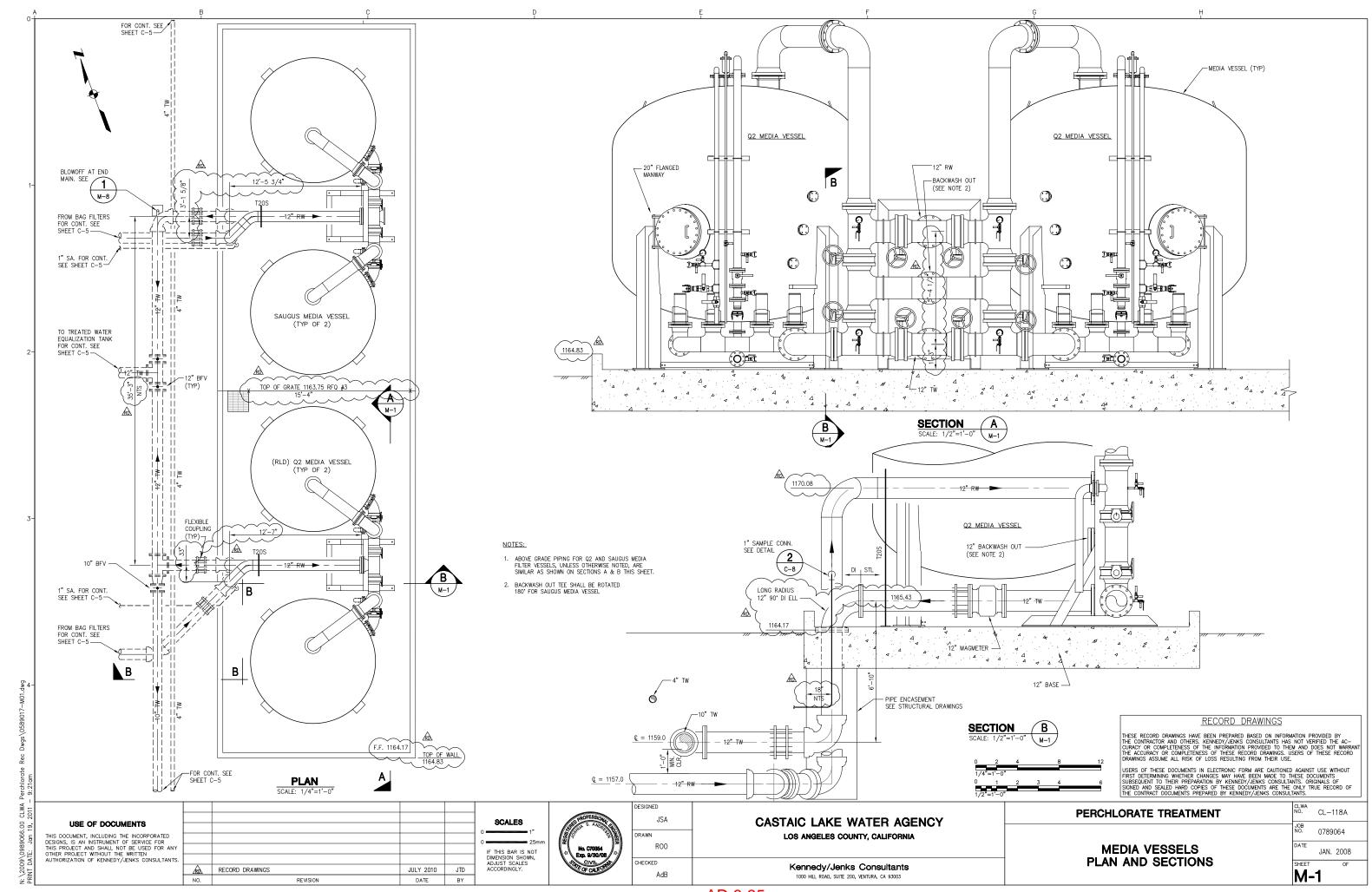


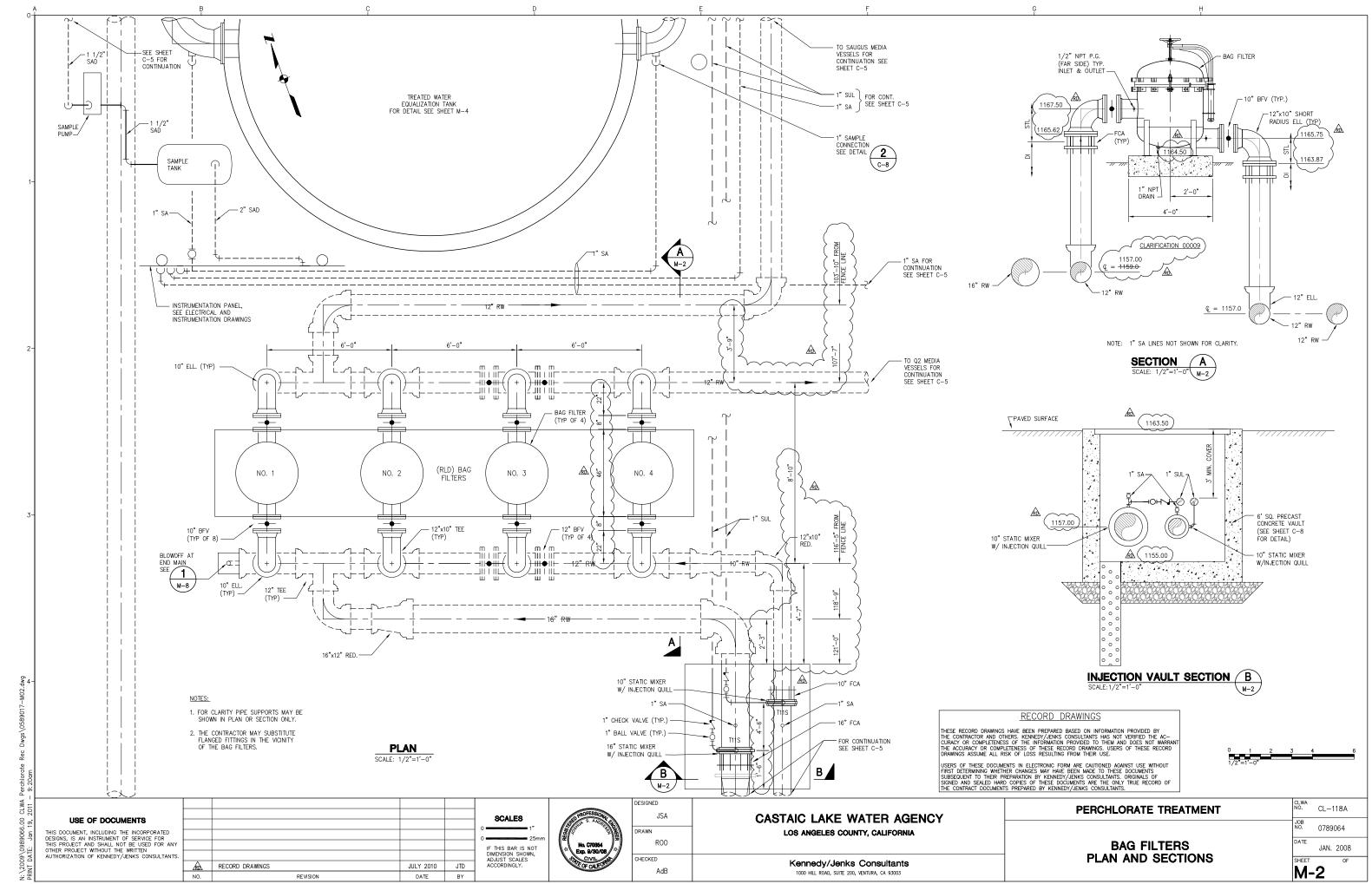


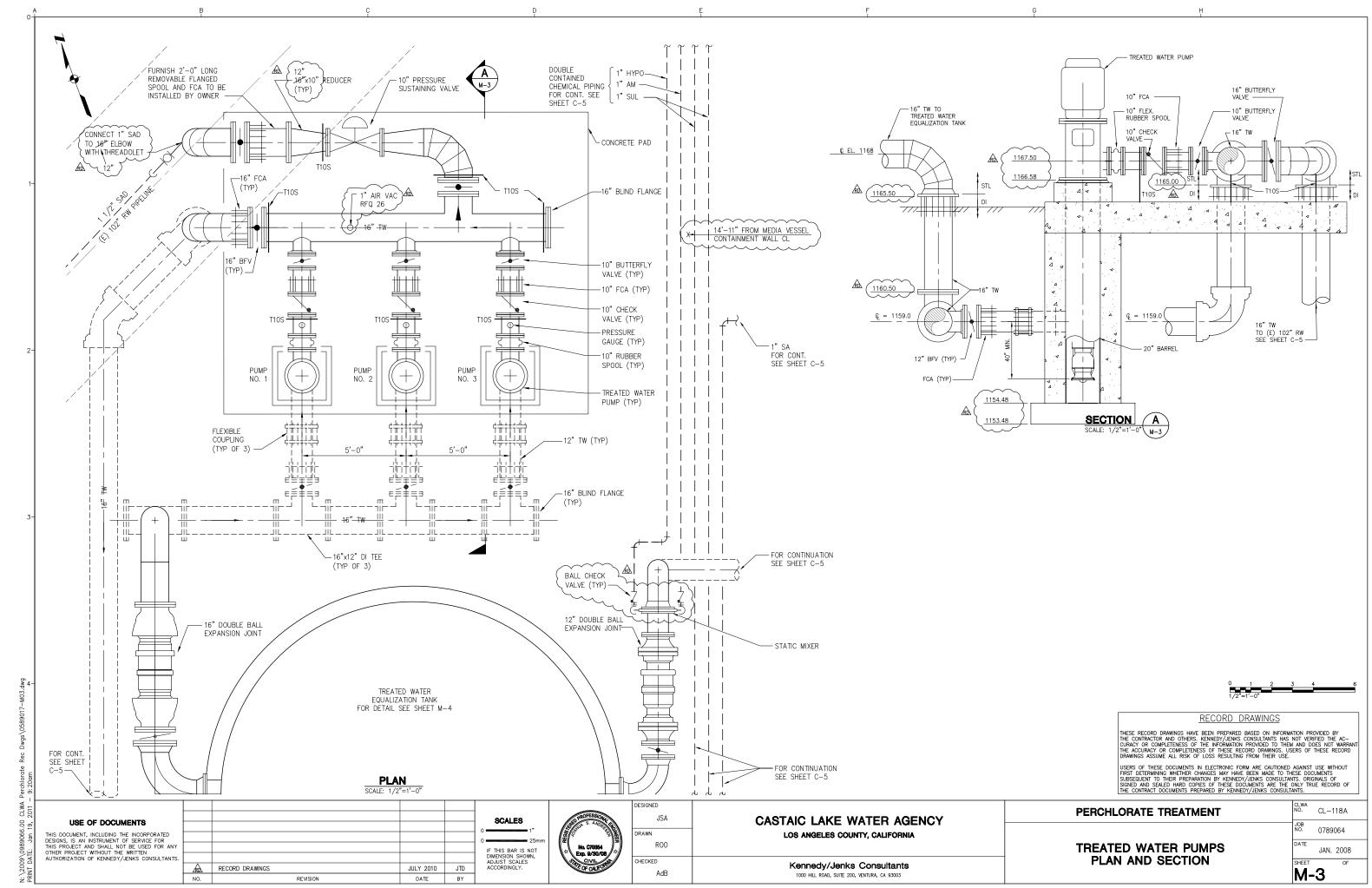


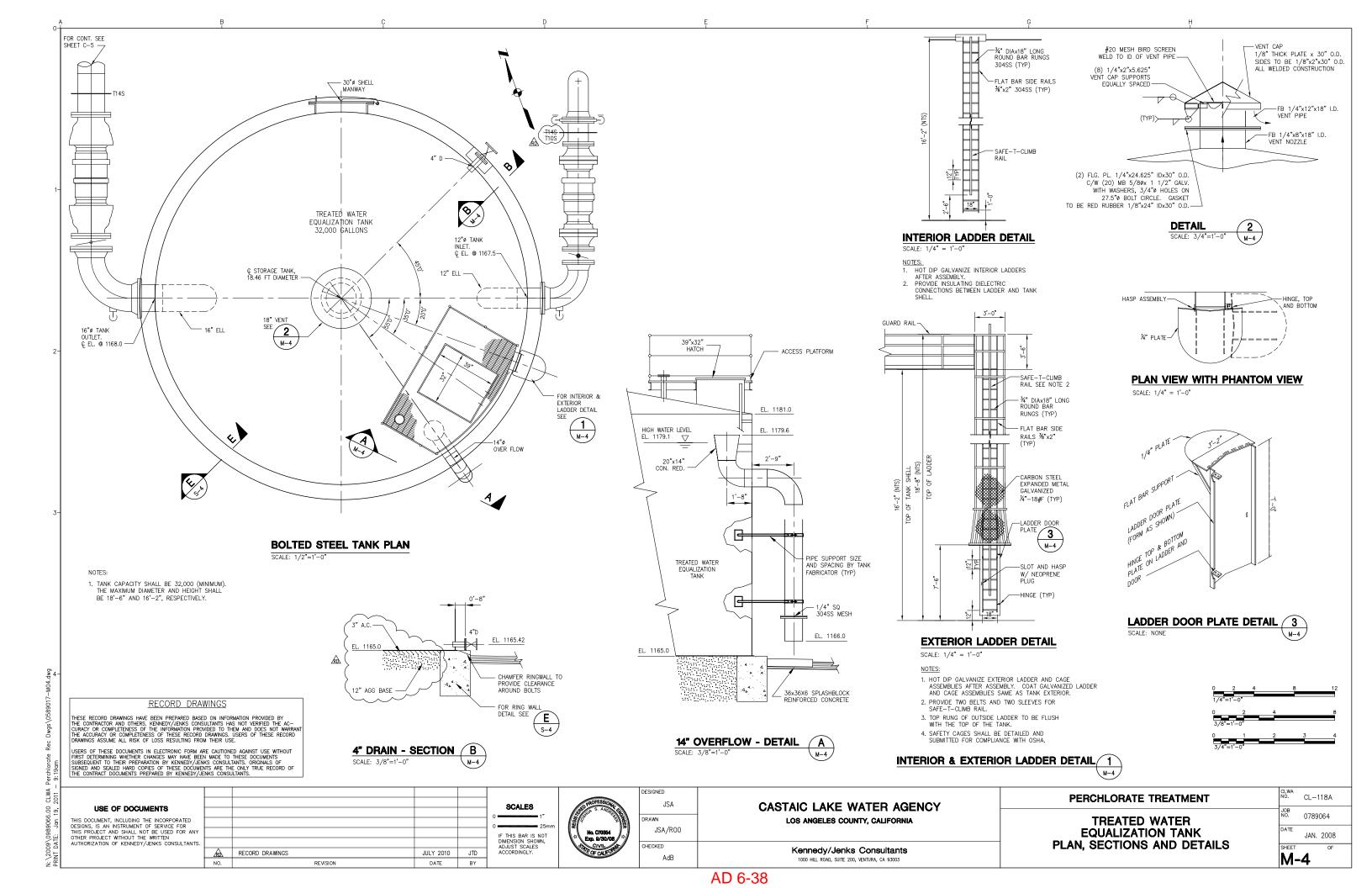


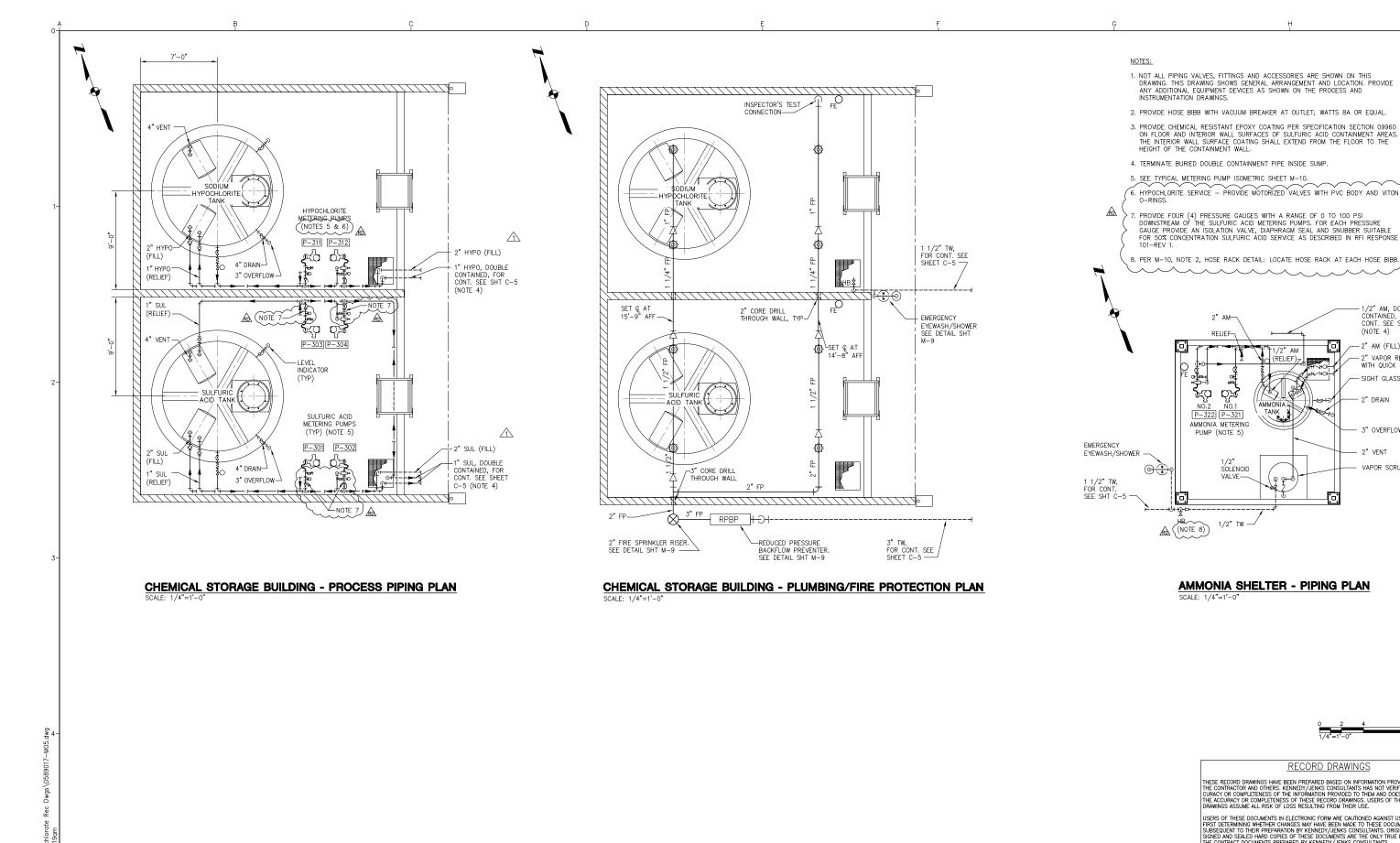












SCALES

IF THIS BAR IS NOT

JULY 2010

DATE

01/02/2007

JTD

DL

USE OF DOCUMENTS

RECORD DRAWINGS

REVISION

RFQ NO. 003

<u>ÆÒ.</u>

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0789064 JAN. 2008

CL-118A

- 1/2" AM, DOUBLE CONTAINED, FOR CONT. SEE SHEET C-5

- 2" VAPOR RECOVERY WITH QUICK DISCONNECT

(NOTE 4)

- 2" AM (FILL)

- SIGHT GLASS

- 3" OVERFLOW

- 2" VENT

AND AMMONIA SHELTER **PLANS**

RELIEF-

P-322 P-321 AMMONIA METERING

PUMP (NOTE 5)

(NOTE 8)

SCALE: 1/4"=1'-0

1/2" SOLENOID

(RELIEF)-

AMMONIA SHELTER - PIPING PLAN

CASTAIC LAKE WATER AGENCY

LOS ANGELES COUNTY, CALIFORNIA

Kennedy/Jenks Consultants

1000 HILL ROAD, SUITE 200, VENTURA, CA 93003

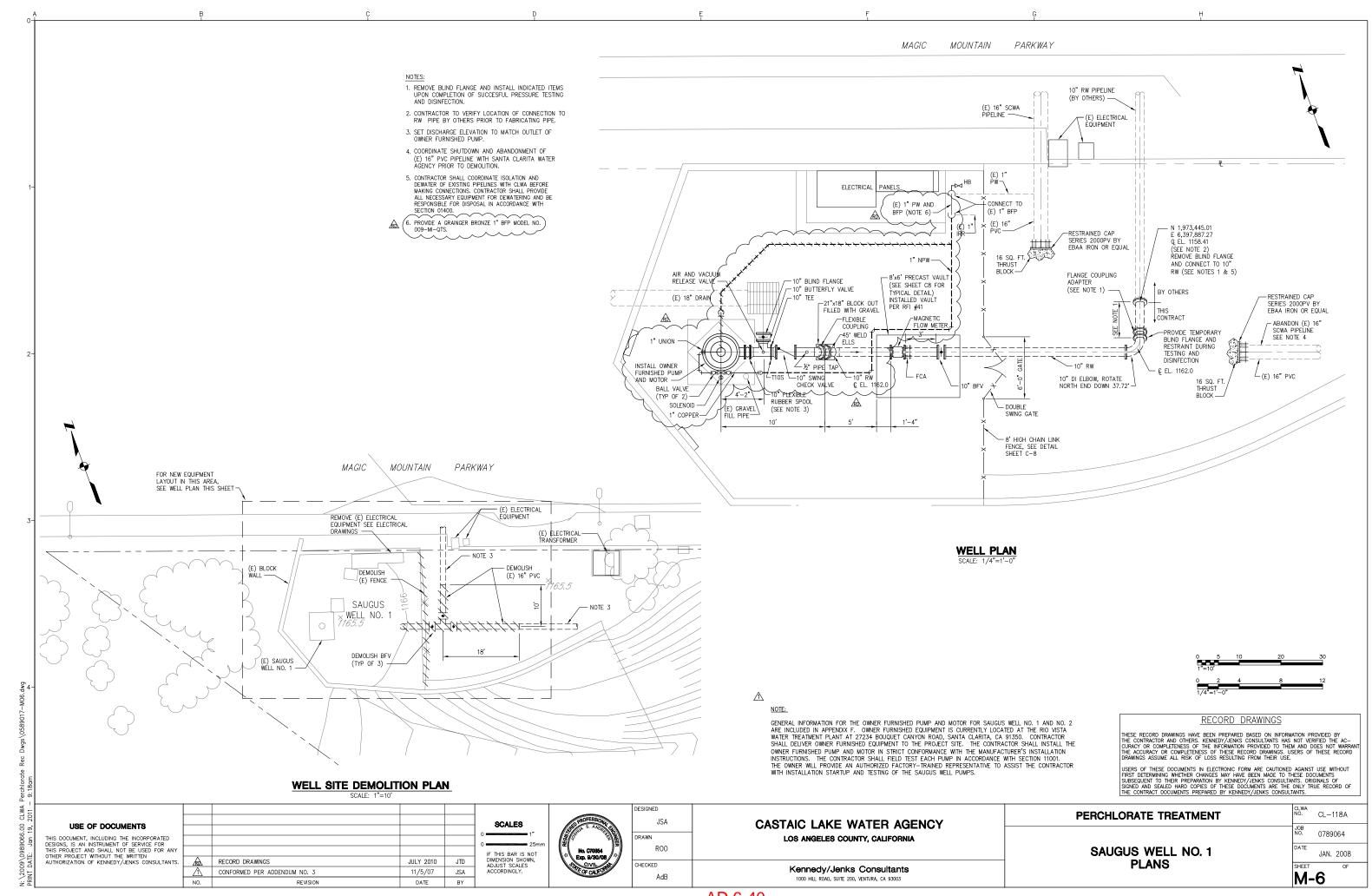
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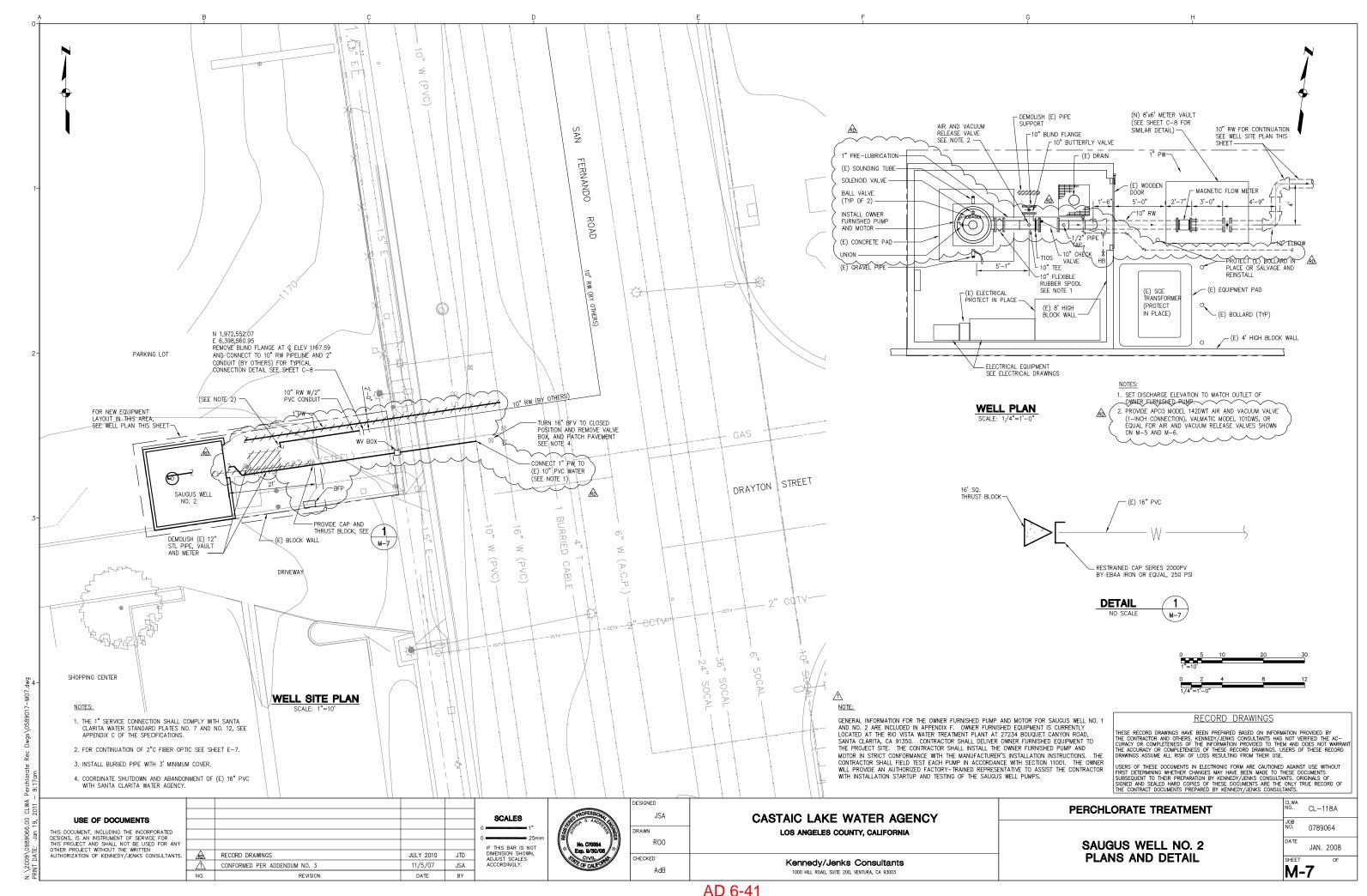
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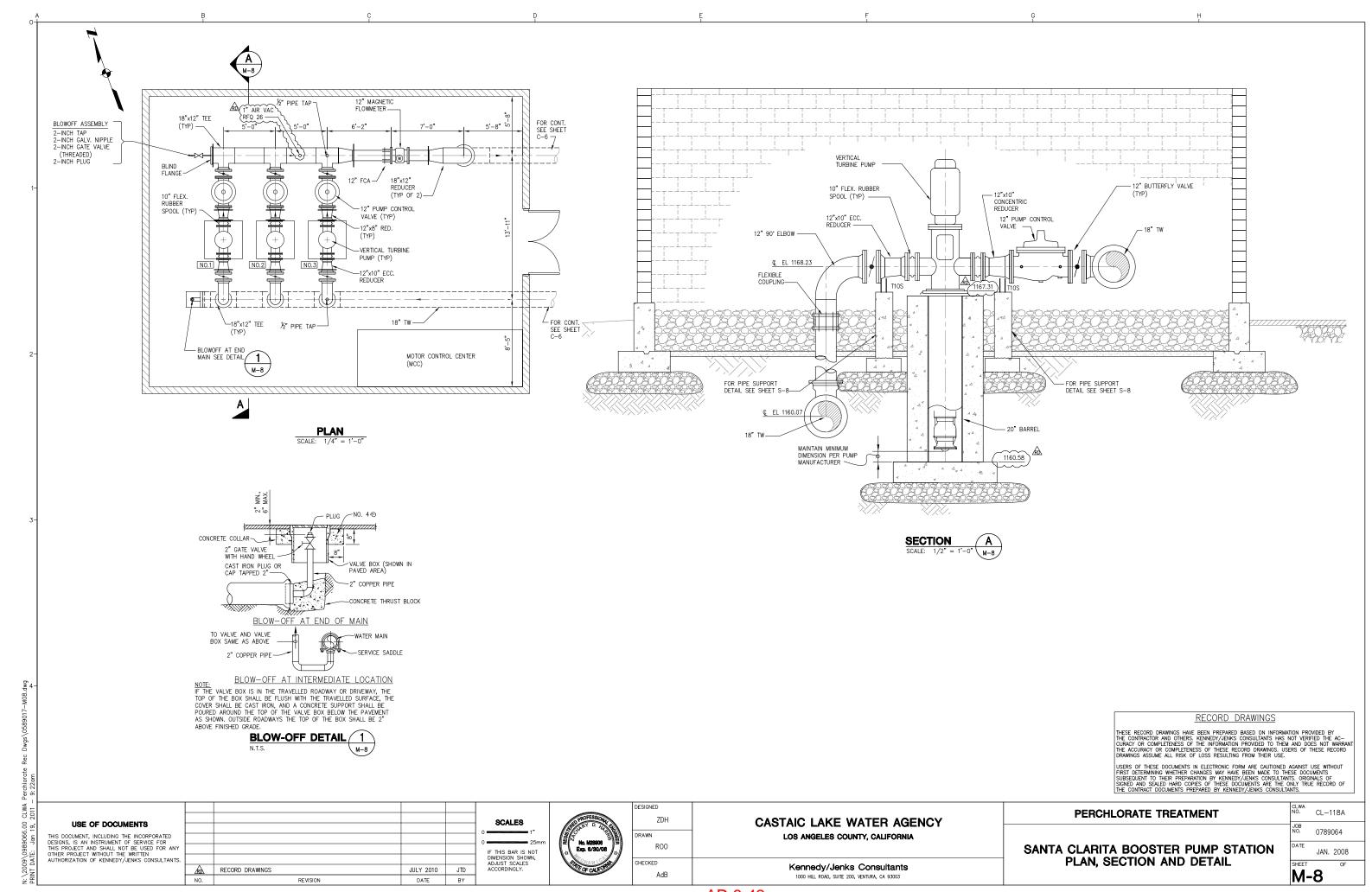
JSA/AdB

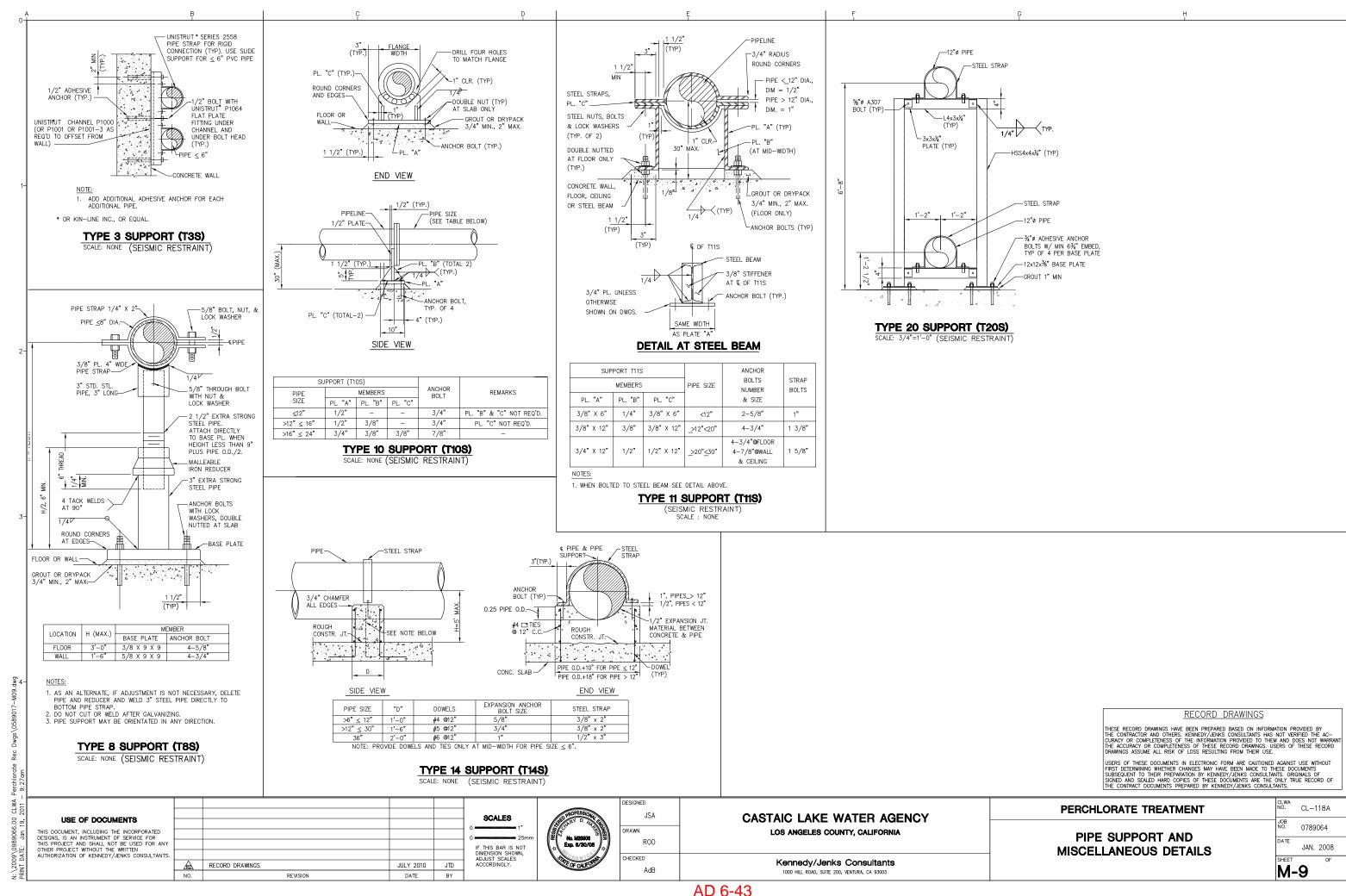
ROO/SMA

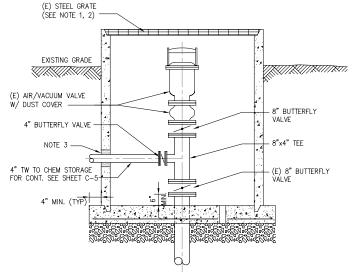
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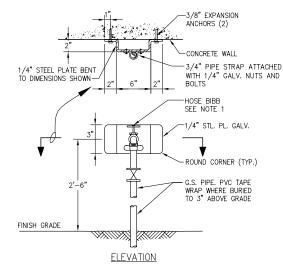






- CUT 24-INCH SQ. OPENING IN GRATE TO ALLOW FOR PENETRATION OF
- AIR/VACUUM VALVE AS NEEDED FOR VERTICAL CLEARANCE.
 TOUCH-UP DAMAGED GRATING TO REMOVE SHARP EDGES AND TO
- RESTORE PROTECTIVE COATING. CORE DRILL OPENING FOR PIPE AND SEAL WITH NON-SHRINK GROUT.

BRANCH OUTLET • AIR/VACUUM VALVE VAULT 1



- PROVIDE HOSE BIBB VACUUM BREAKER AT OUTLET. WATTS 8A, OR EQUAL
 PROVIDE HOSE RACK AT EACH H.B. LOCATION. SEE HOSE RACK INSTALLATION DETAIL THIS SHEET.

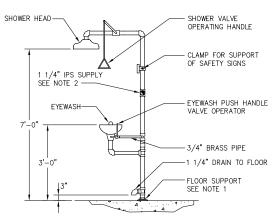
TYPICAL HOSE BIBB ATTACHED TO WALL DETAIL

SCALE: NONE

RECORD DRAWINGS

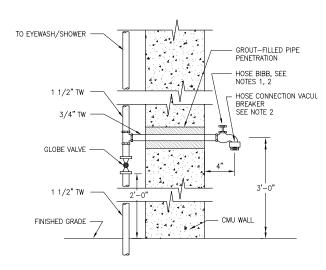
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USERS OF THESE DOCUMENTS IN ELECTRONIC FORM ARE CAUTIONED AGAINST USE WITHOUT FIRST DETERMINING WHETHER CHANGES MAY HAVE BEEN MADE TO THESE DOCUMENTS SUBSEQUENT TO THEIR PREPARATION BY KENNEDY/JENKS CONSULTANTS, ORIGINALS OF SIGNED AND SEALED HARD COPIES OF THESE DOCUMENTS ARE THE ONLY TRUE RECORD OF THE CONTRACT DOCUMENTS PREPARED BY KENNEDY/JENKS CONSULTANTS.



- ANCHOR FLOOR SUPPORT TO PAVED SURFACE WITH BOLTS SELECTED
- BY EYEWASH SUPPLIER.
 PROVIDE ISOLATION VALVE ON EYEWASH SUPPLY BRANCH FROM HEADER.
 SECURE BRANCH SUPPLY TO BUILDING MEMBERS.

TYPICAL EMERGENCY SHOWER & EYEWASH DETAIL



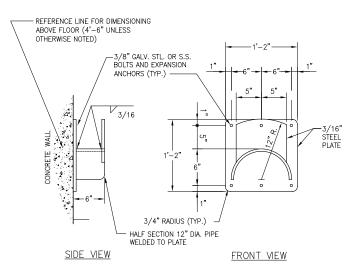
- INSTALL HOSE RACK ON EXTERIOR WALL NEAR HOSE BIBB AT LOCATION DIRECTED BY OWNER. SEE HOSE RACK INSTALLATION DETAIL THIS SHEET.
- 2. PROVIDE HOSE CONNECTION VACUUM BREAKER AT EACH HOSE BIBB

DATE

TYPICAL HOSE BIBB AT WALL PENETRATION DETAIL

SCALES.

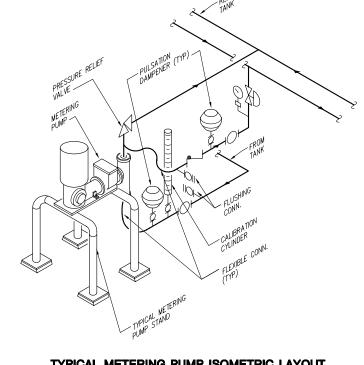
IF THIS BAR IS NOT



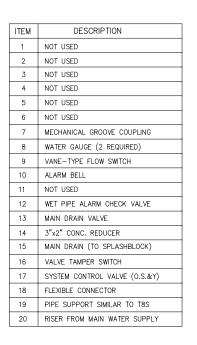
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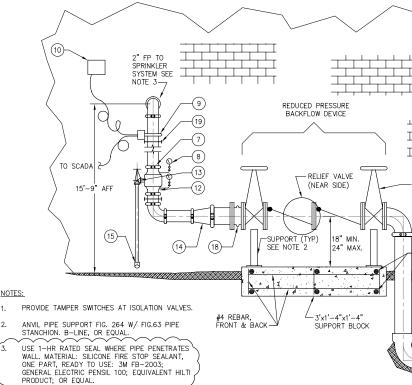
- 1. HOT-DIP GALV. AFTER FABRICATION.
- 2. LOCATE HOSE RACK AT EACH HOSE BIBB

TYPICAL HOSE RACK DETAIL



TYPICAL METERING PUMP ISOMETRIC LAYOUT





FIRE SPRINKLER RISER & REDUCED PRESSURE BACKFLOW PREVENTER

SCALE: NONE

3" FEGV, O.S. & Y.

OF DOCUMENTS PREPARED BY RENNEDT/JENKS	JUNSULIANI	5.			
USE OF DOCUMENTS					١,
UMENT, INCLUDING THE INCORPORATED IS AN INSTRUMENT OF SERVICE FOR					١
JECT AND SHALL NOT BE USED FOR ANY ROJECT WITHOUT THE WRITTEN ATION OF KENNEDY/JENKS CONSULTANTS.					۱ ٔ
	ÆÒ.	RECORD DRAWINGS	JULY 2010	JTD	

REVISION

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1	Ma M28908 Exp. 6/30/08

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No. M28908 Exp. 8/30/08	DRAWN
ON THE REAL PROPERTY.	CHECKE

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CASTAIC LAKE WATER AGENCY LOS ANGELES COUNTY, CALIFORNIA

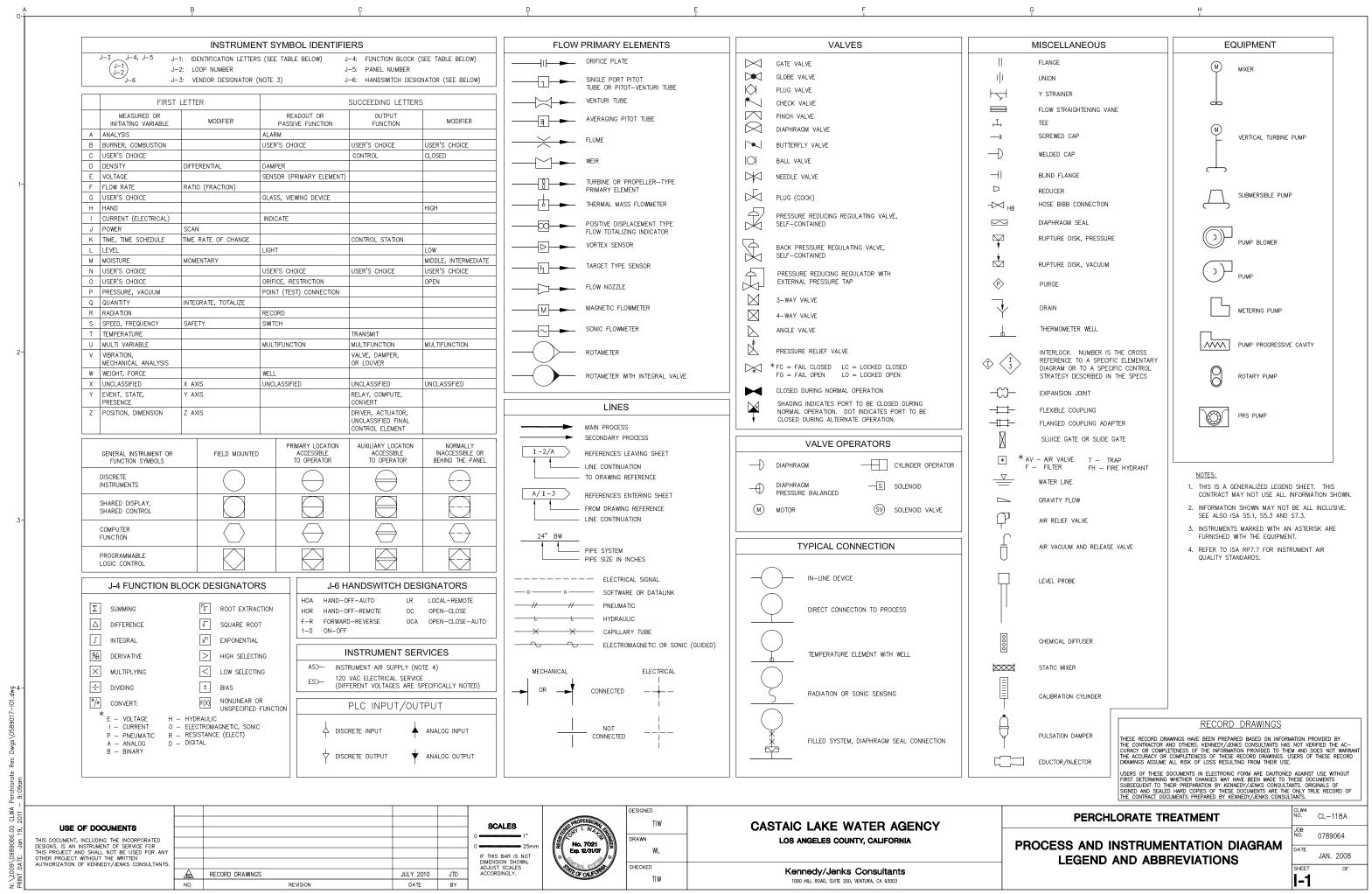
Kennedy/Jenks Consultants 1000 HILL ROAD, SUITE 200, VENTURA, CA 93003

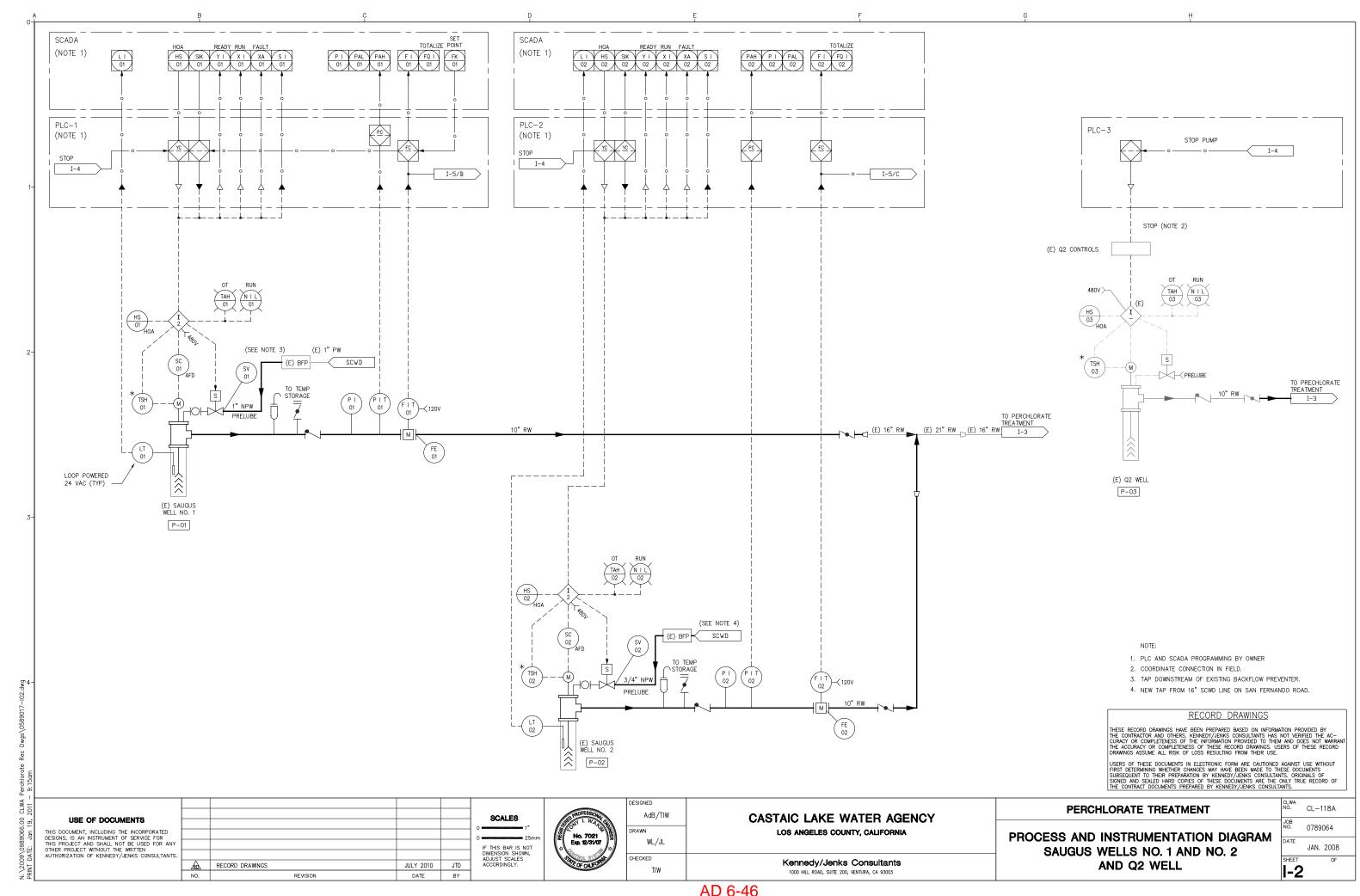
PERCHLORATE	TREATMENT

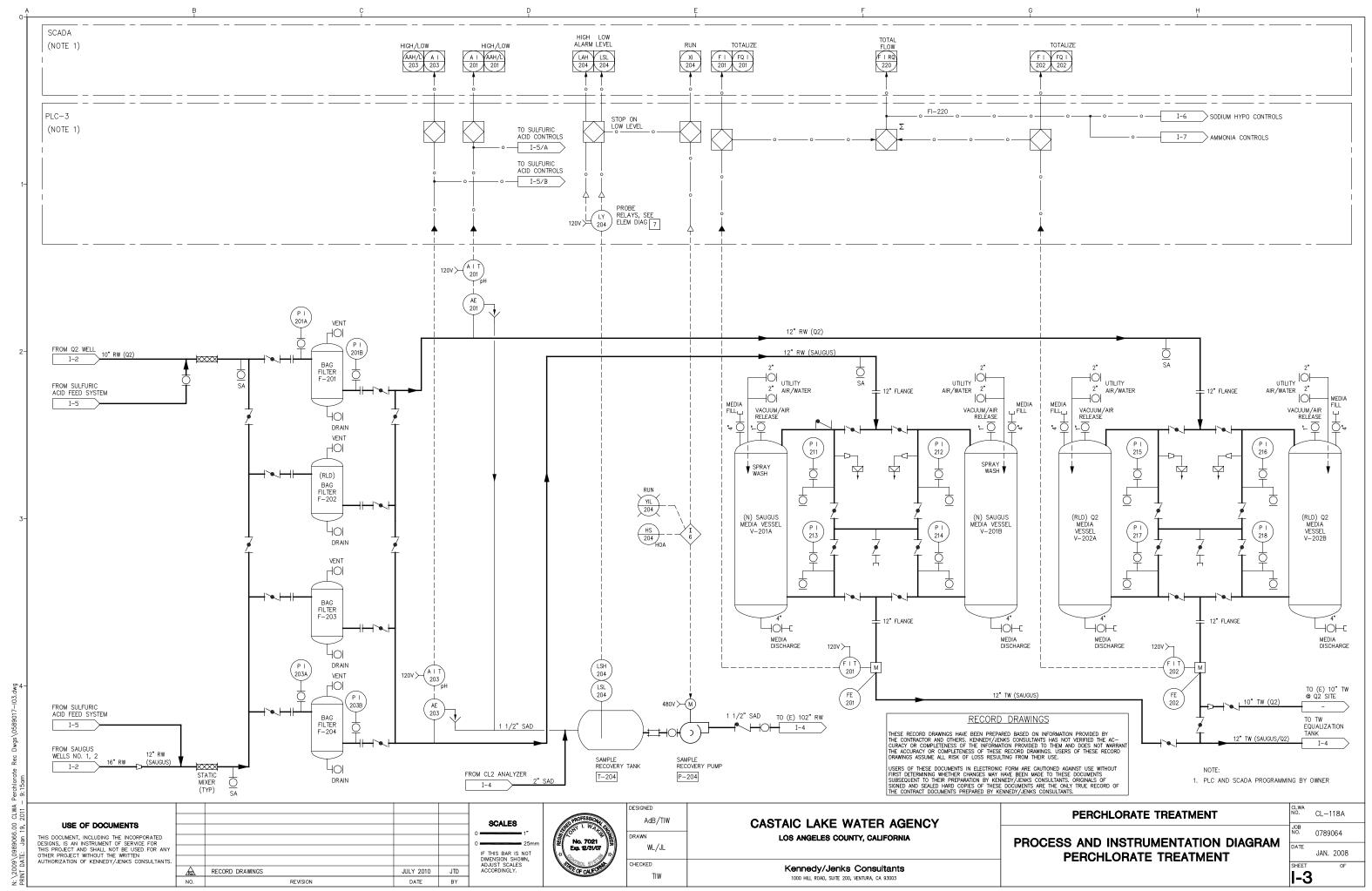
MISCELLANEOUS DETAILS

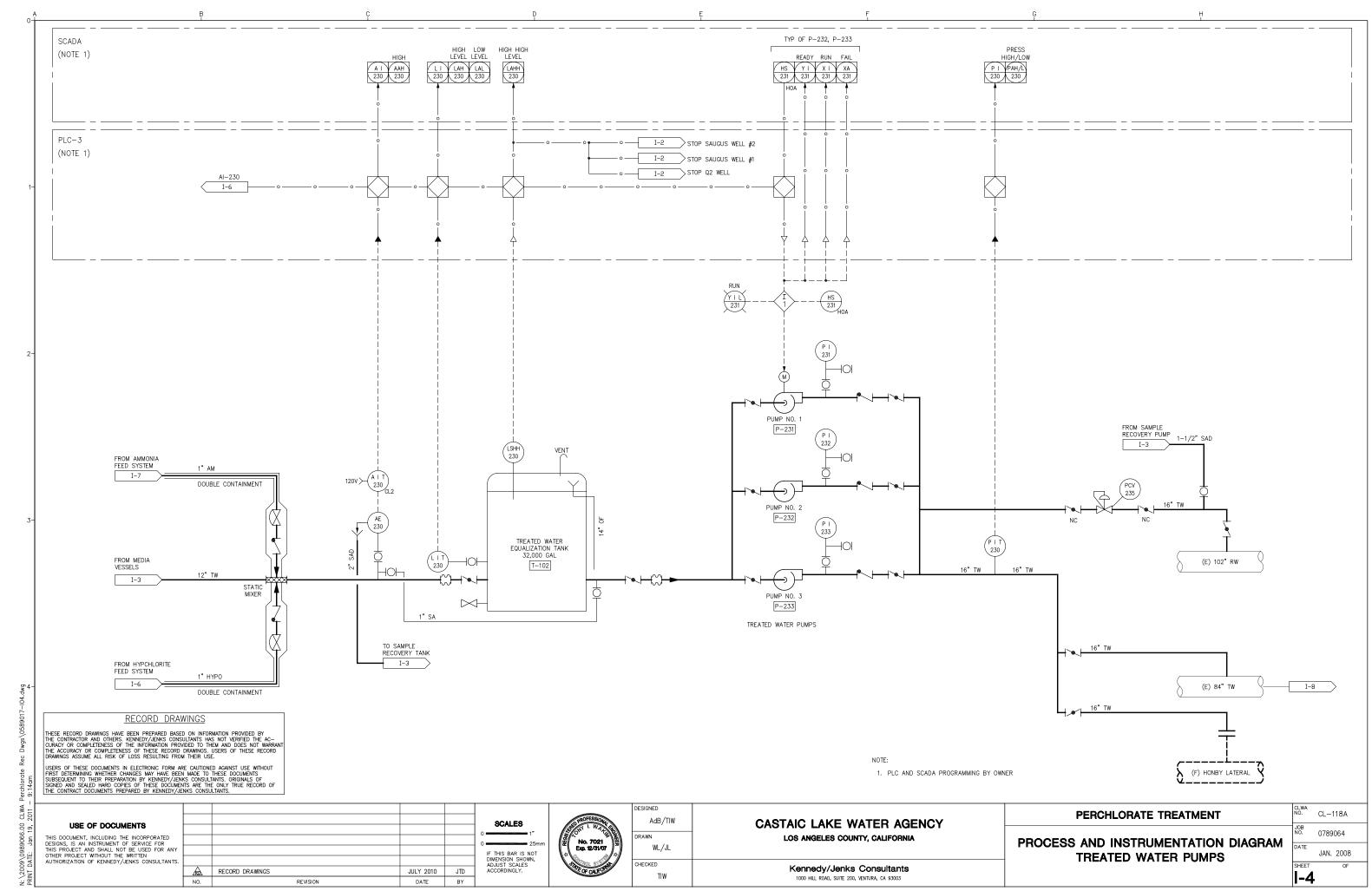
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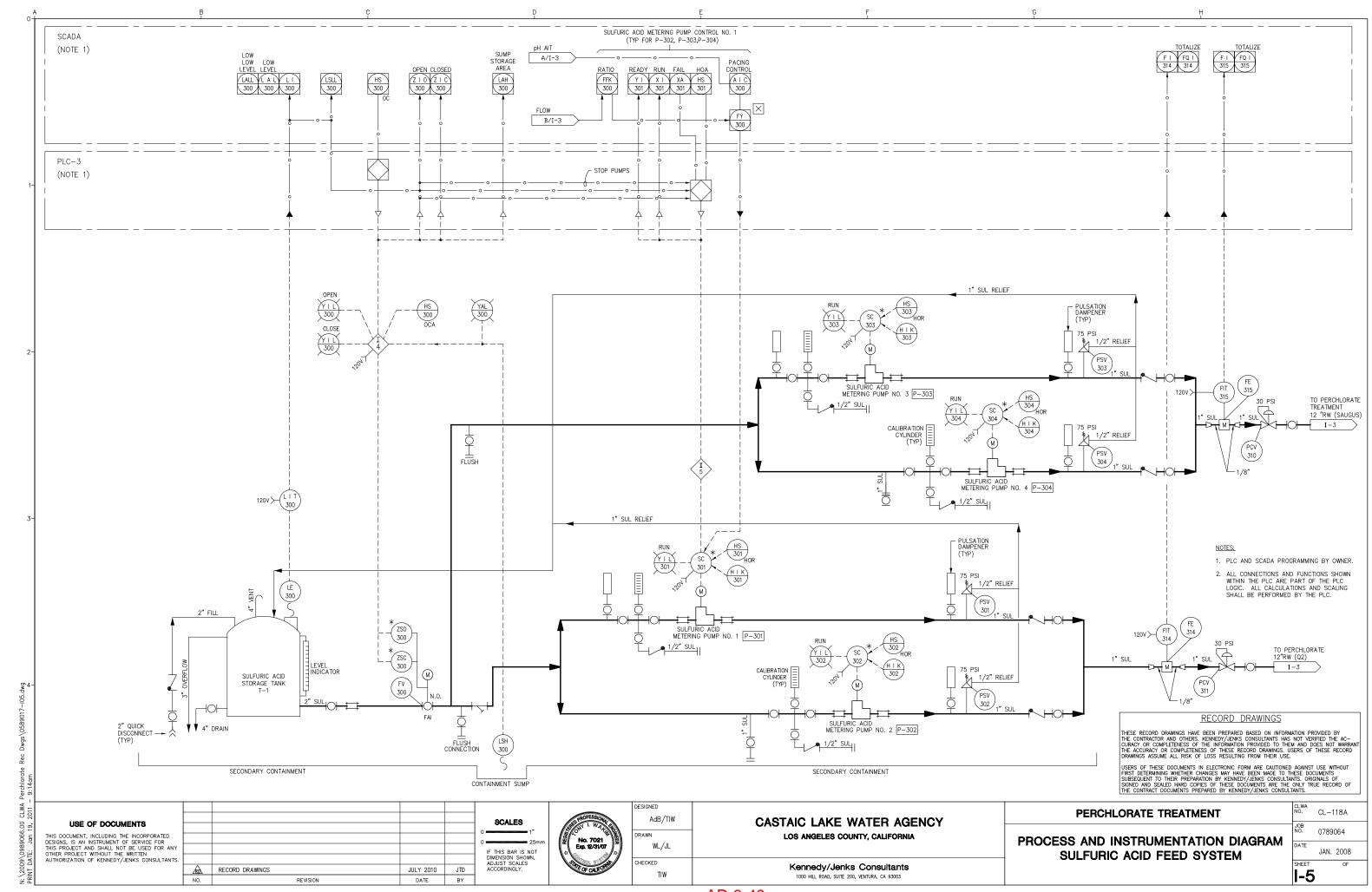
M-10

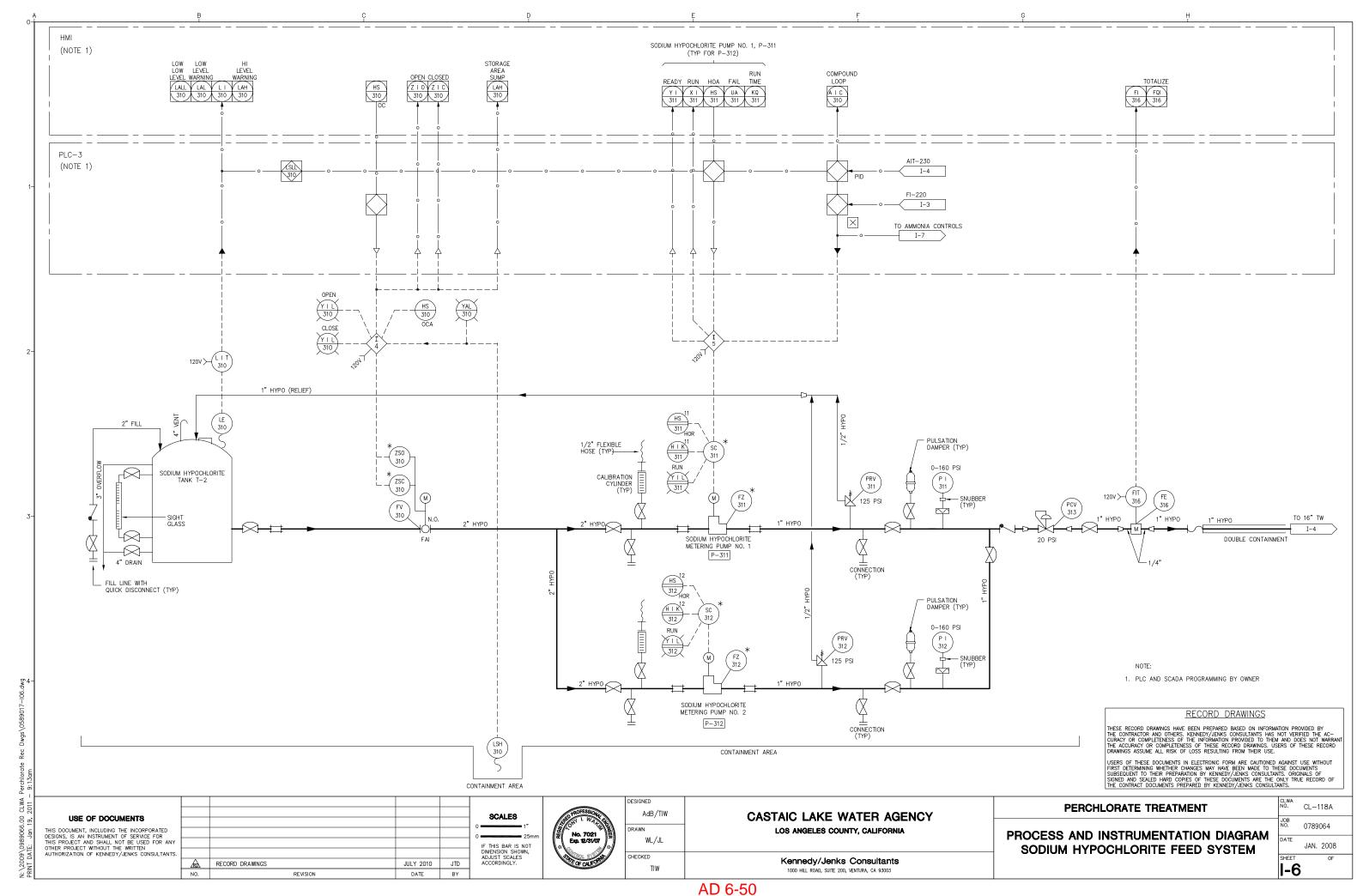


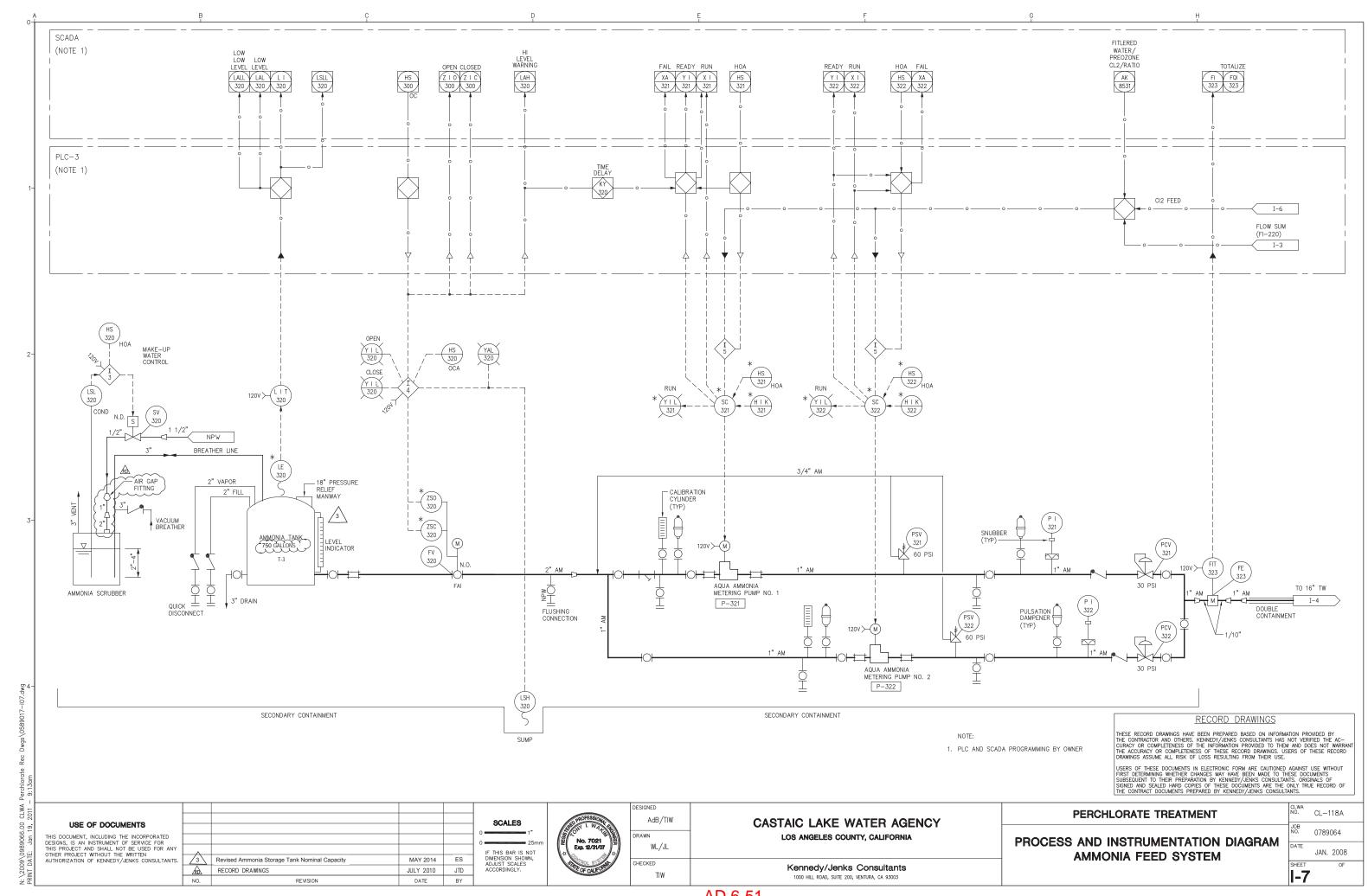


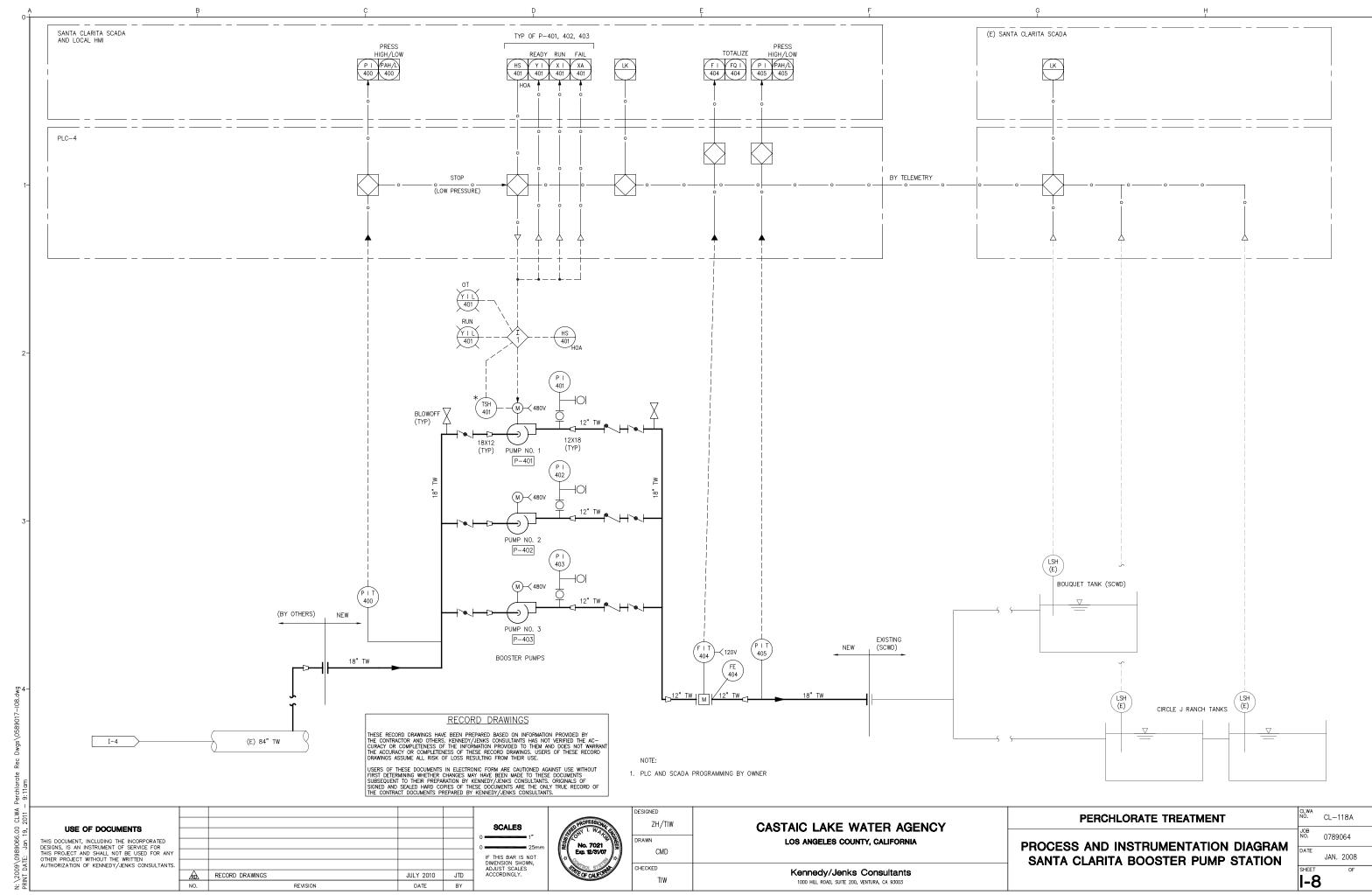


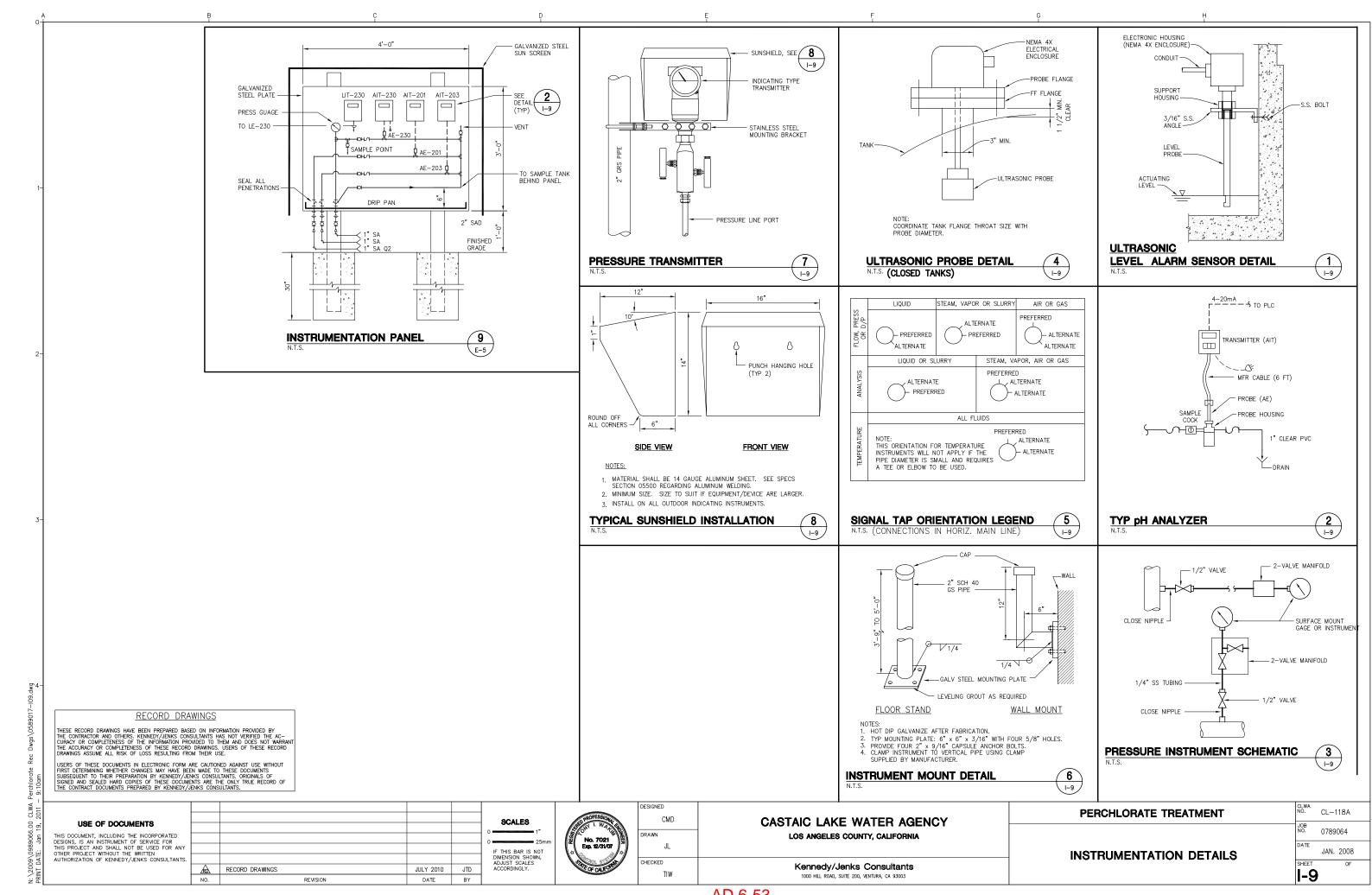


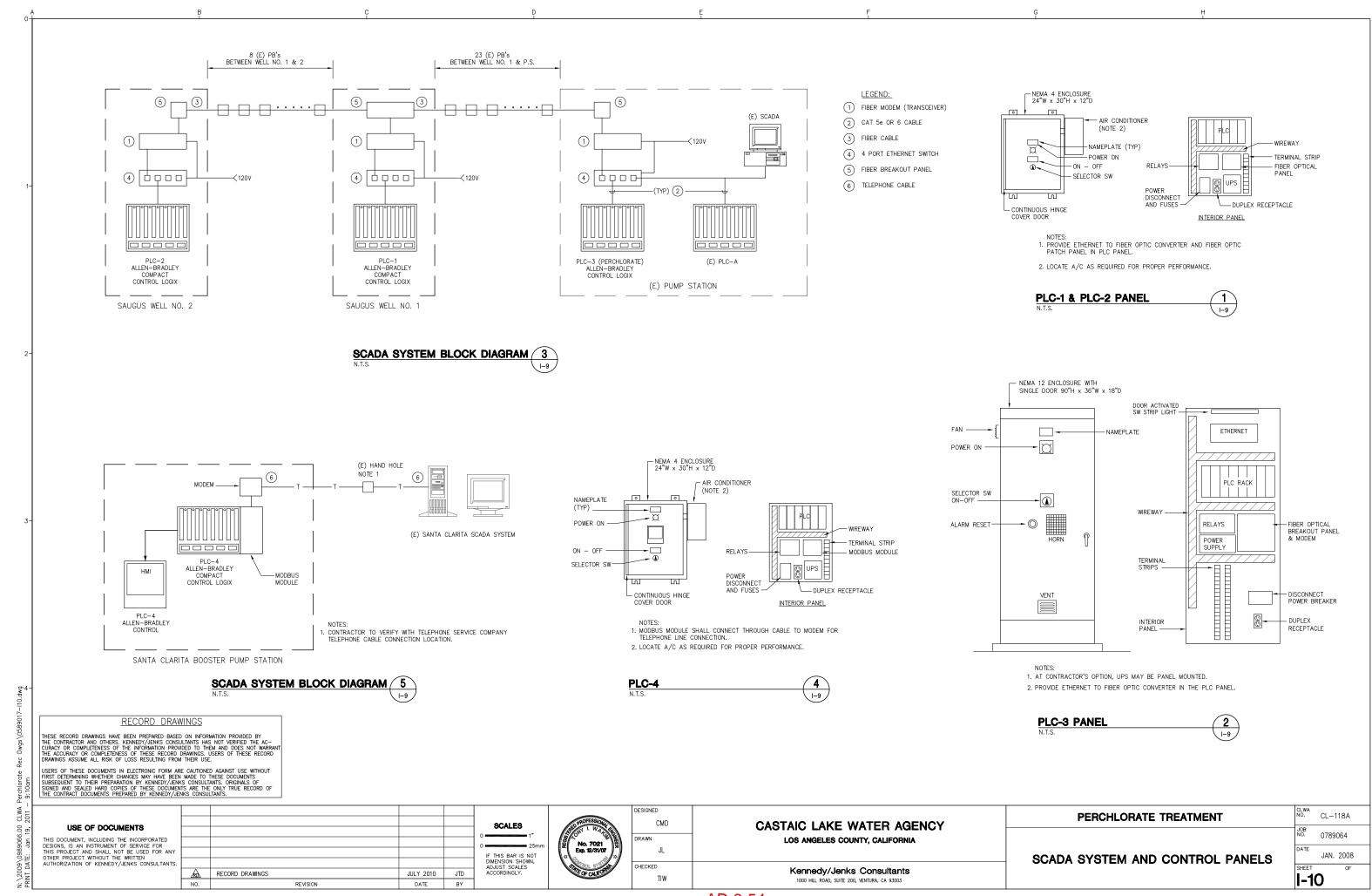


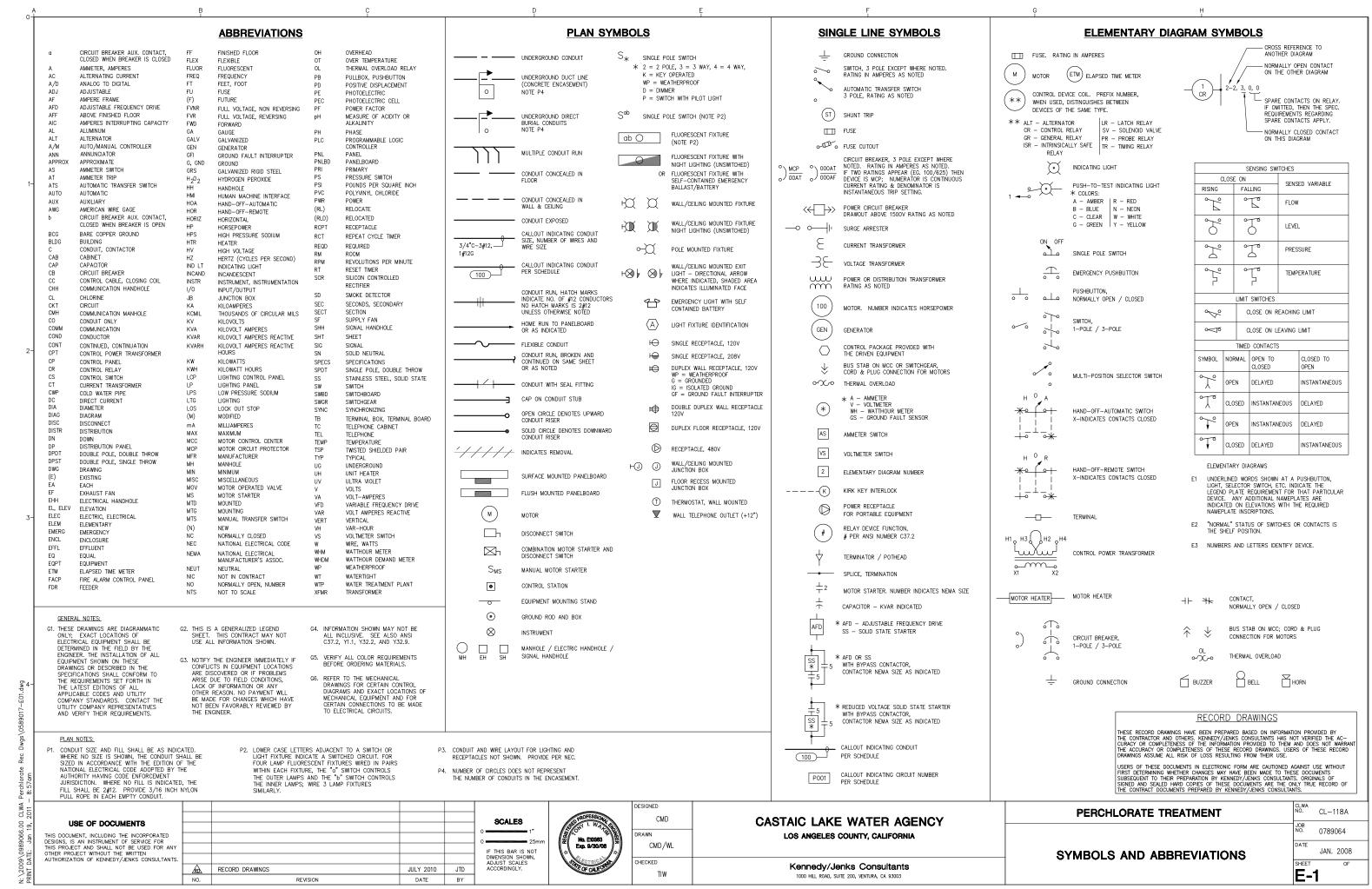


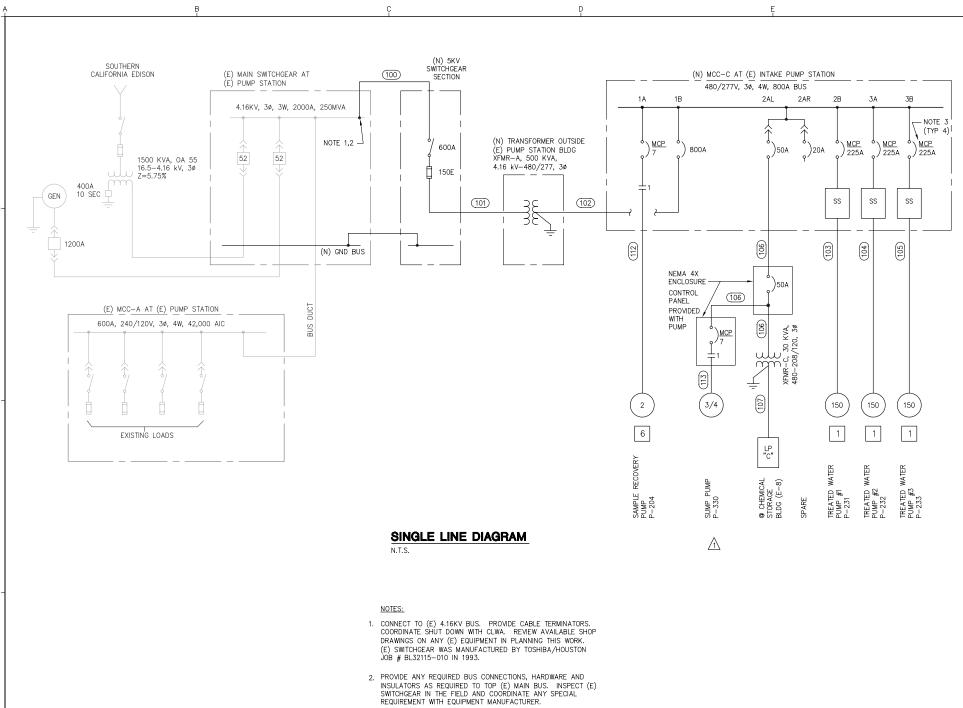








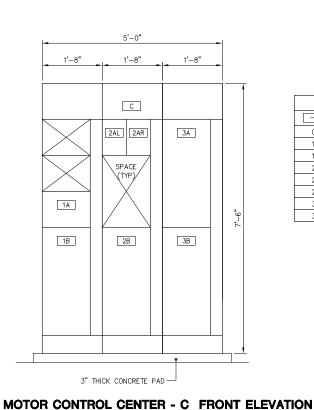




3. SET MCP TRIP SETTING TO 10 TIMES THE FLA OF THE MOTOR.

DATE BY

PANELBOARD "C" SCHEDULE 208/120 VOLTS, 3 PHASE, 4 WIRE MOUNTING: SURFACE 100 AMP BUS 100 AMP MAIN CONNECTED VOLT-AMPS AMPS/ CONNECTED VOLT-AMPS AMPS/ DESCRIPTION DESCRIPTION POLES POLES AIT-201/AIT-203 500 20/1 2 FIT-201/FIT-202 500 20/1 AIT-230/LIT-230/LSH/LSL-204 PROBE LIT-300/LIT-310 20/1 1176 20/1 6 SOD, HYP, METERING PUMP #1 1176 20/1 5 SUL ACID METERING PUMP #1 7 SUL. ACID METERING PUMP #2 20/1 8 SOD. HYP. METERING PUMP #2 1176 20/1 9 SUL. ACID METERING PUMP #3 10 AQUA AMMONIA METERING PUMP #1 20/1 11 SUL. ACID METERING PUMP #4 1176 20/1 12 AQUA AMMONIA METERING PUMP #2 1176 20/1 13 FV-300 500 20/1 14 RECEPTACLE (AMMONIA SHELTER) 20/1 16 LIT-320/FIT-323 15 FV-310 20/1 500 20/1 500 17 FIT-315 250 20/1 LTG (AMMONIA SHELTER) 142 20/1 19 LTG (CHEMICAL BUILDING) 284 20/1 20 FV-320 500 20/1 21 RECEPTACLE (CHEMICAL BUILDING) 360 20/1 22 AMMONIA CONTROL PANEL 100 20/1 23 SOD. HYP. LEAK CONTROL PANEL 24 SPARE 20/1 25 SUL. ACID LEAK CONTROL PANEL 100 20/1 26 EXTERIOR LTG (TREATMENT PLANT) 20/1 27 FIT-314 250 20/1 28 SPARE 20/1 29 FIT-316 30 SPARE 20/1 250 20/1 31 SPARE 32 SPACE 33 SPARE 34 SPACE 20/1 36 SPACE 35 SPARE 20/1 37 SPACE 38 SPACE 40 SPACE 39 SPACE 41 SPACE 42 SPACE SUBTOTALS 2560 3036 2952 2640 2276 2494 PHASE TOTALS 5200 5312 5446 TOTAL VOLT-AMPS



	MCC NAMEPLATE SCHEDULE						
MCC NAMEPLATE SCHEDULE							
_	DESCRIPTION						
С	MOTOR CONTROL CENTER - C						
1A	SAMPLE RECOVERY PUMP P-204						
1B	MAIN CIRCUIT BREAKER						
2AL	LIGHTING PANEL "C" MAIN CIRCUIT BREAKER						
2AR	SPARE						
2B	TREATED WATER PUMP NO. 1 P-231						
3A	TREATED WATER PUMP NO. 2 P-232						
3B	TREATED WATER PUMP NO. 3 P-233						

RECORD DRAWINGS

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NO.

					SCALES
USE OF DOCUMENTS					OCALES
DOCUMENT, INCLUDING THE INCORPORATED NS. IS AN INSTRUMENT OF SERVICE FOR					0 25mm
PROJECT AND SHALL NOT BE USED FOR ANY					IF THIS BAR IS NOT
PROJECT WITHOUT THE WRITTEN ORIZATION OF KENNEDY/JENKS CONSULTANTS.	ÆÒ	RECORD DRAWINGS	JULY 2010	JTD	DIMENSION SHOWN, ADJUST SCALES
	1	RFQ NO. 3	1/10/08	CMD	ACCORDINGLY.

REVISION

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SED PROFESSIONAL SEE	
No. E10363	DRAW
Exp. 9/30/08	CI
CATE OF CALFORN	CHECH

GNED CMD CMD/JL/WL CKED

TIW

CASTAIC LAKE WATER AGENCY LOS ANGELES COUNTY, CALIFORNIA

Kennedy/Jenks Consultants 1000 HILL ROAD, SUITE 200, VENTURA, CA 93003

SCALE: 3/4" = 1'-0"

0	1	2	3	4
3/4"=1"	-0"			

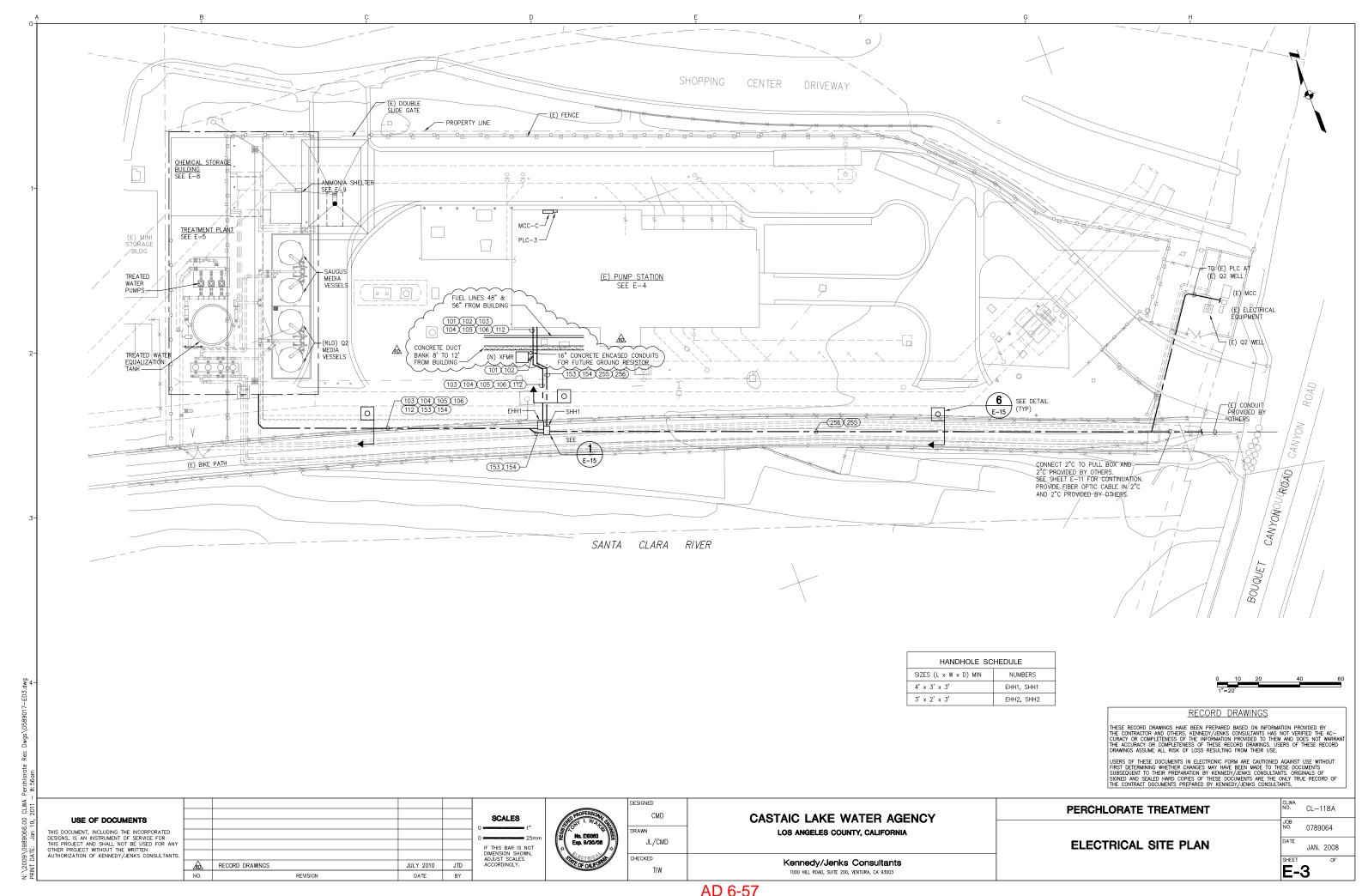
PERCHLORATE TREATMENT SINGLE LINE DIAGRAM, ELEVATION

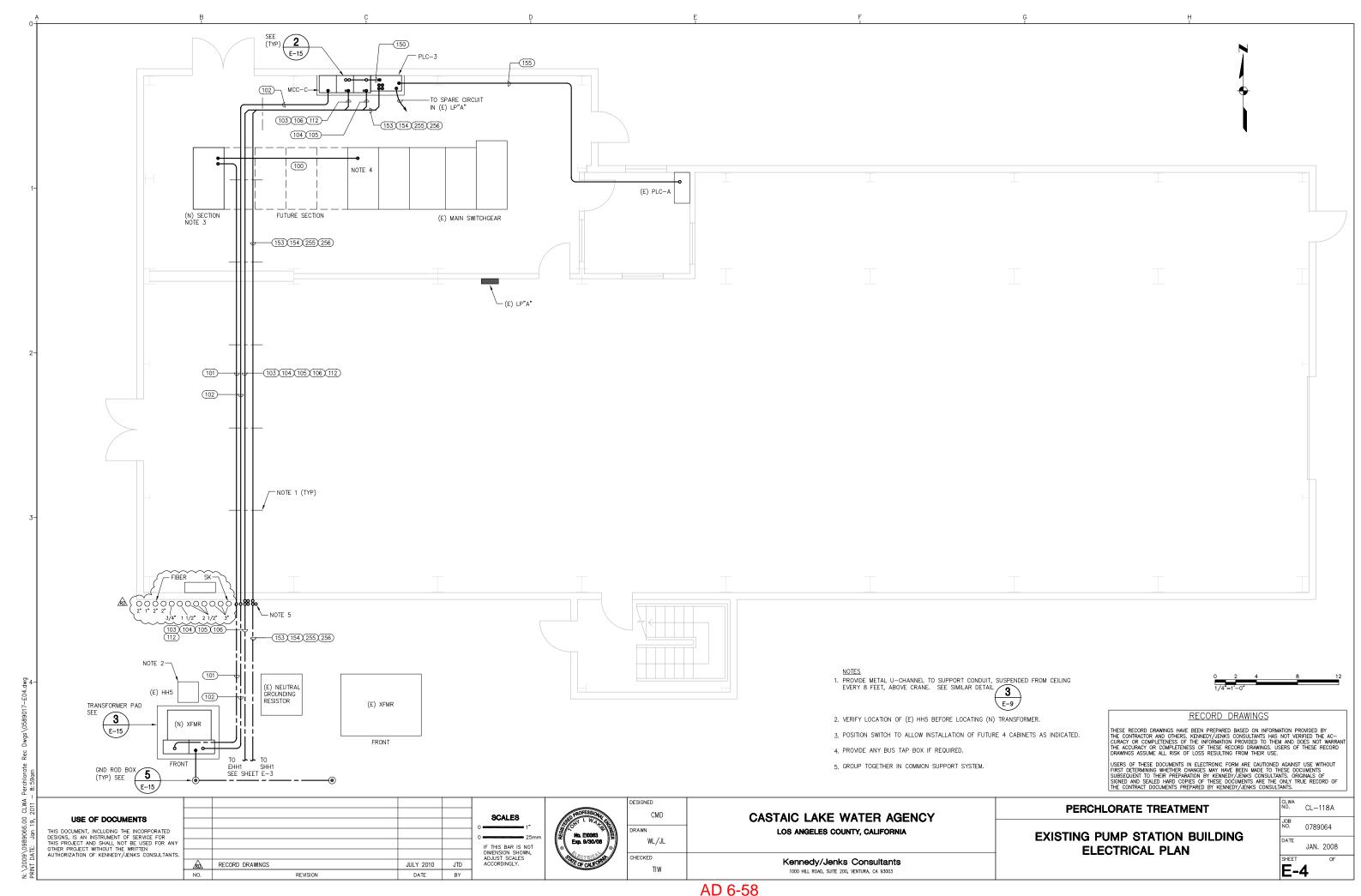
AND PANELBOARD SCHEDULE

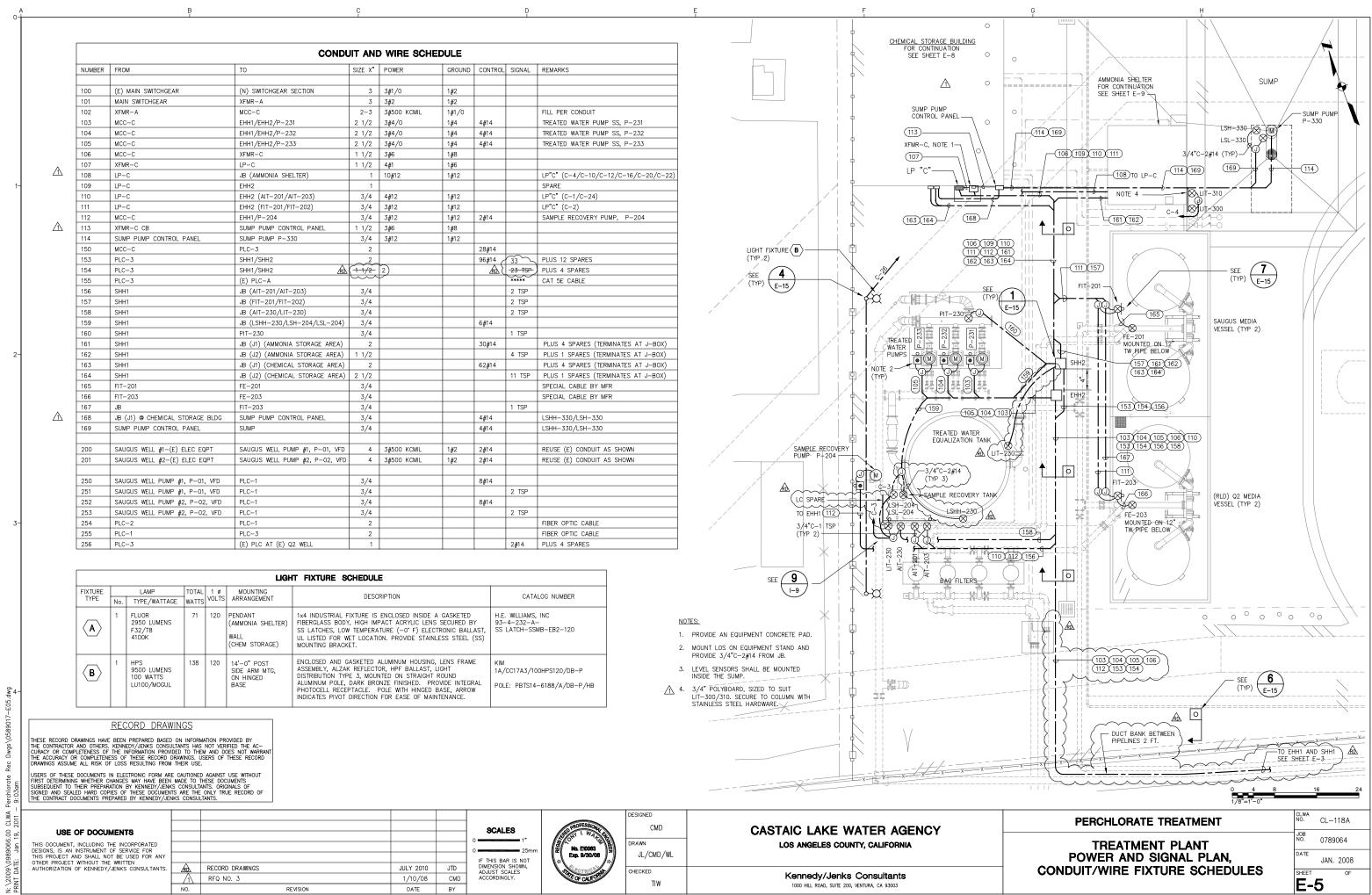
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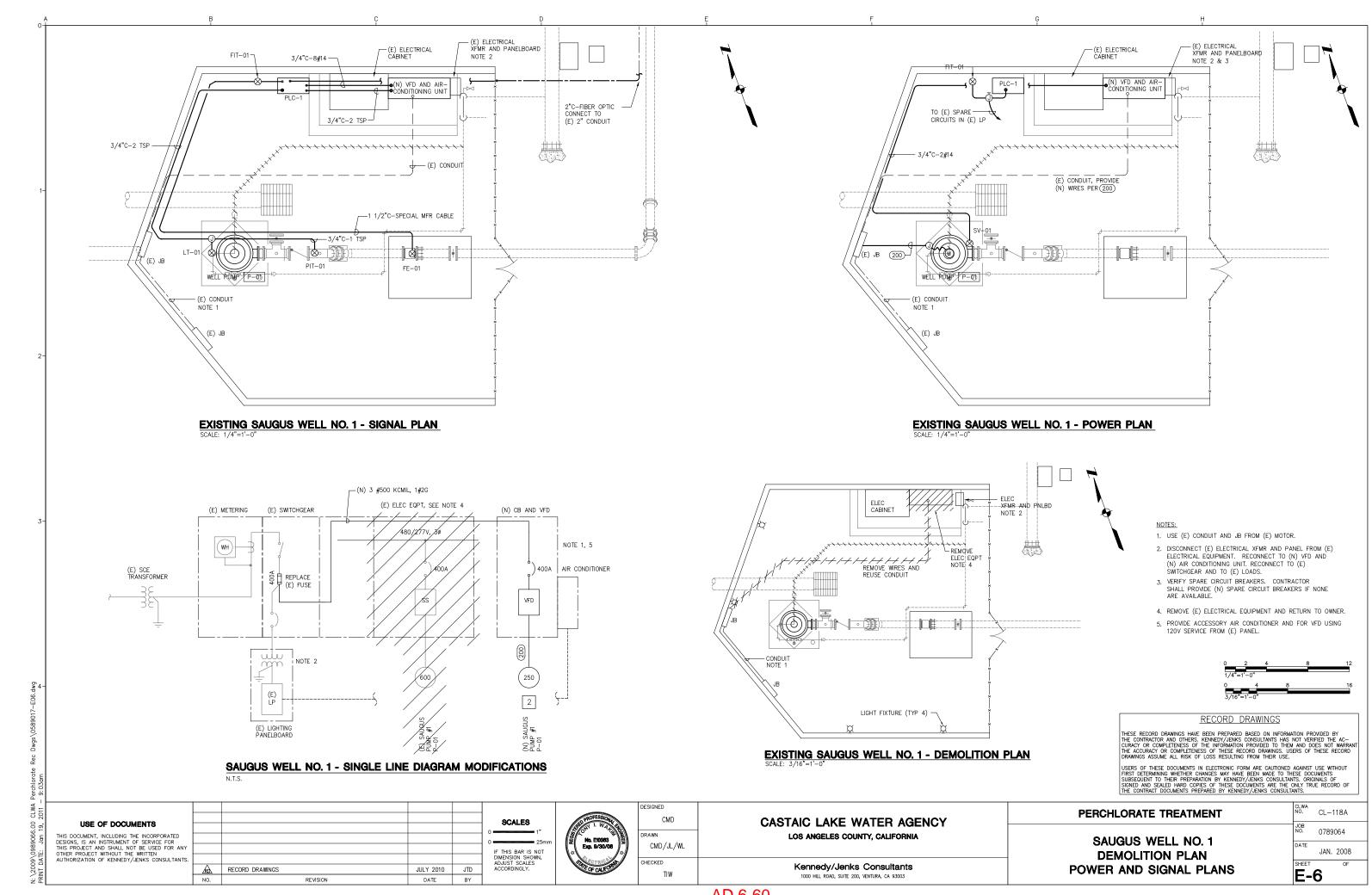
E-2

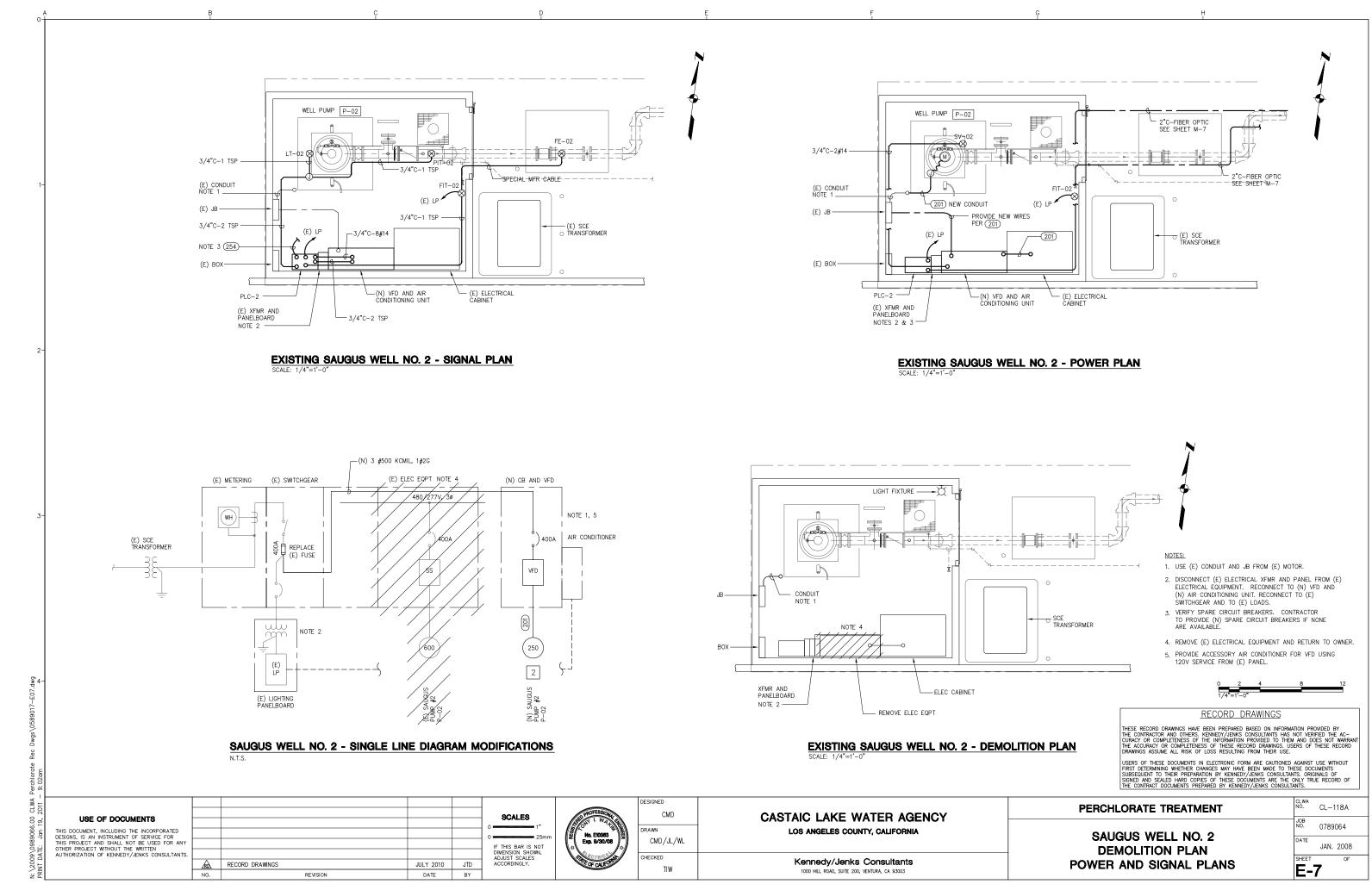
AD 6-56

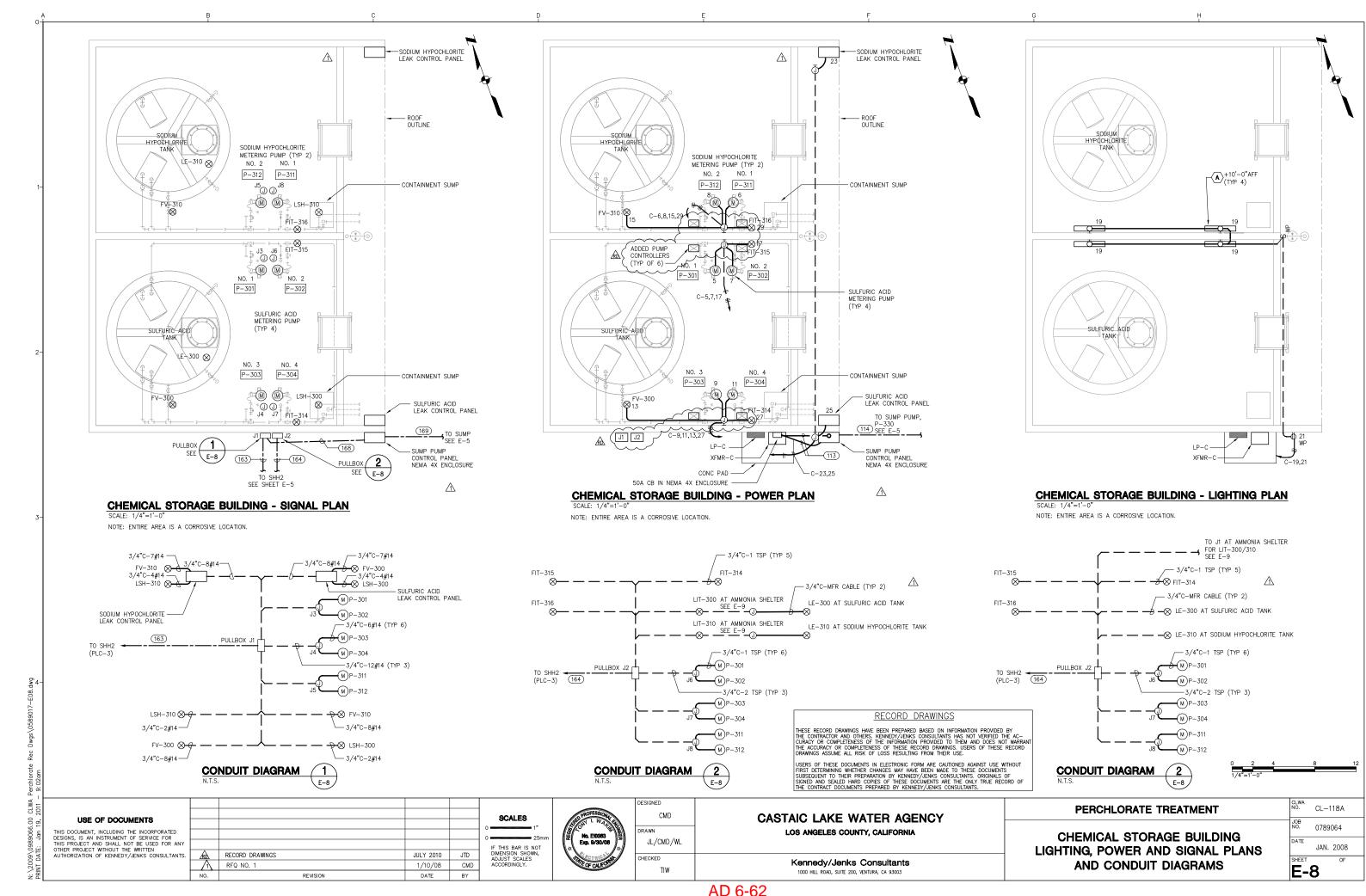


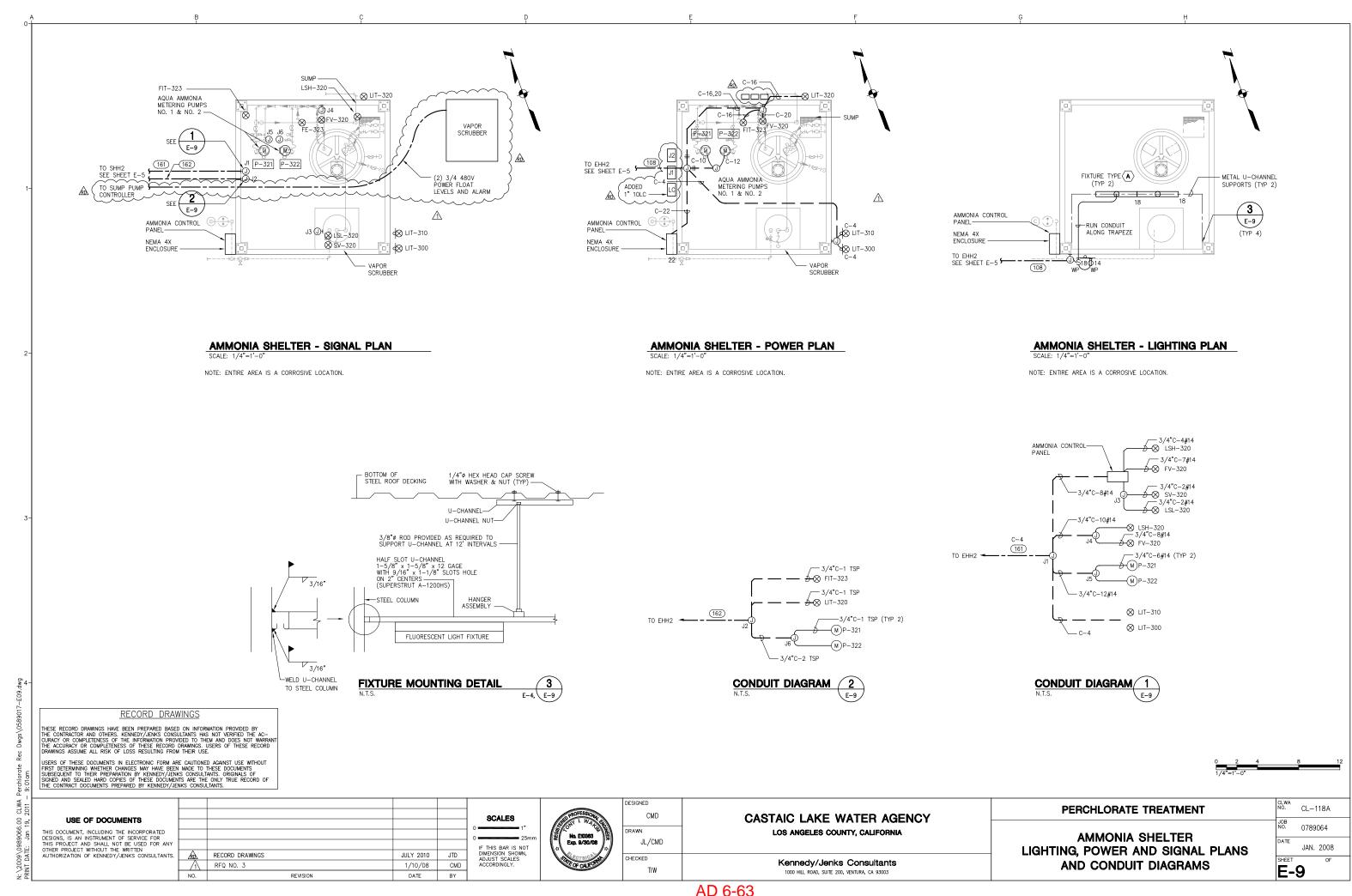


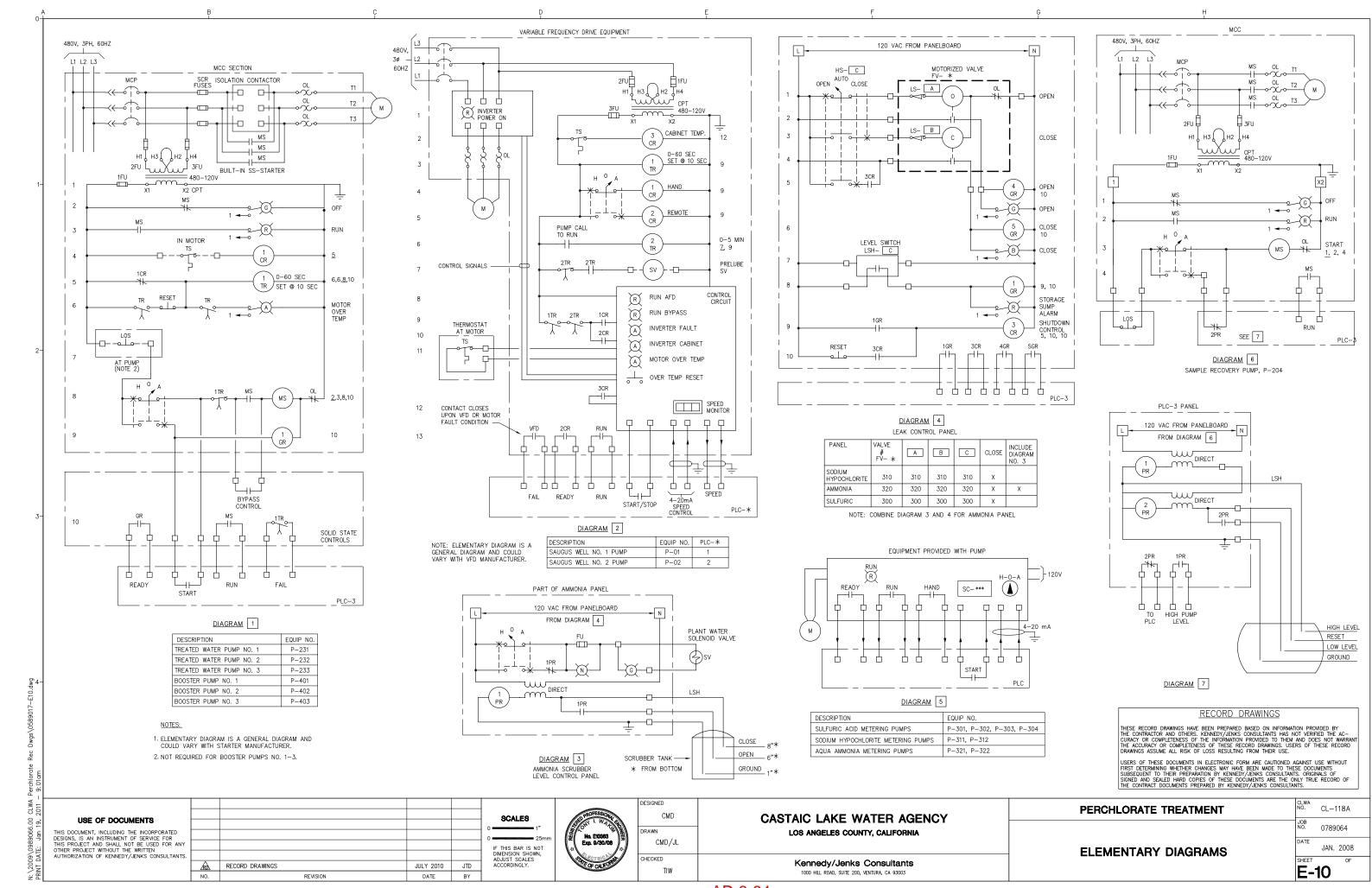


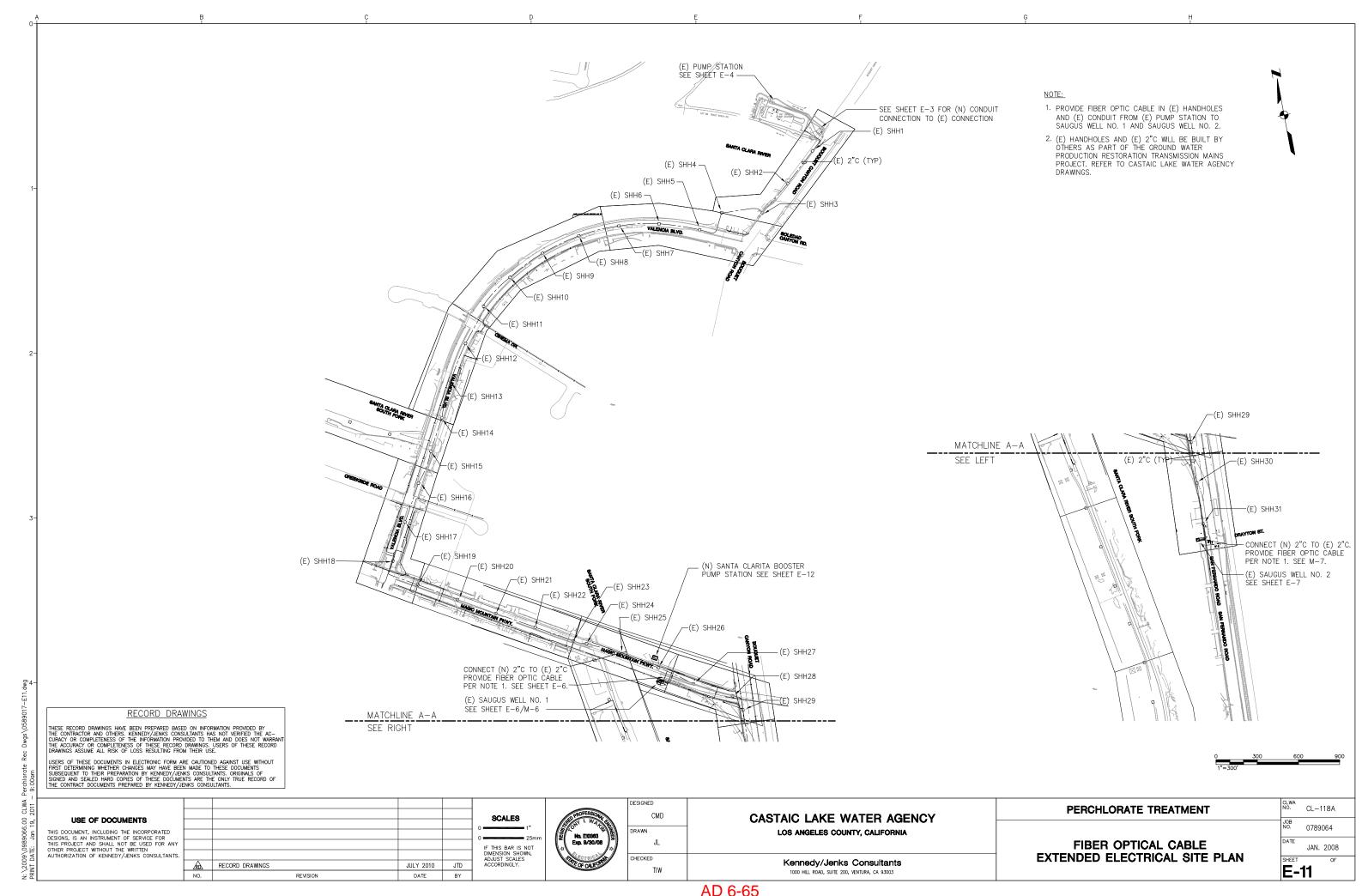


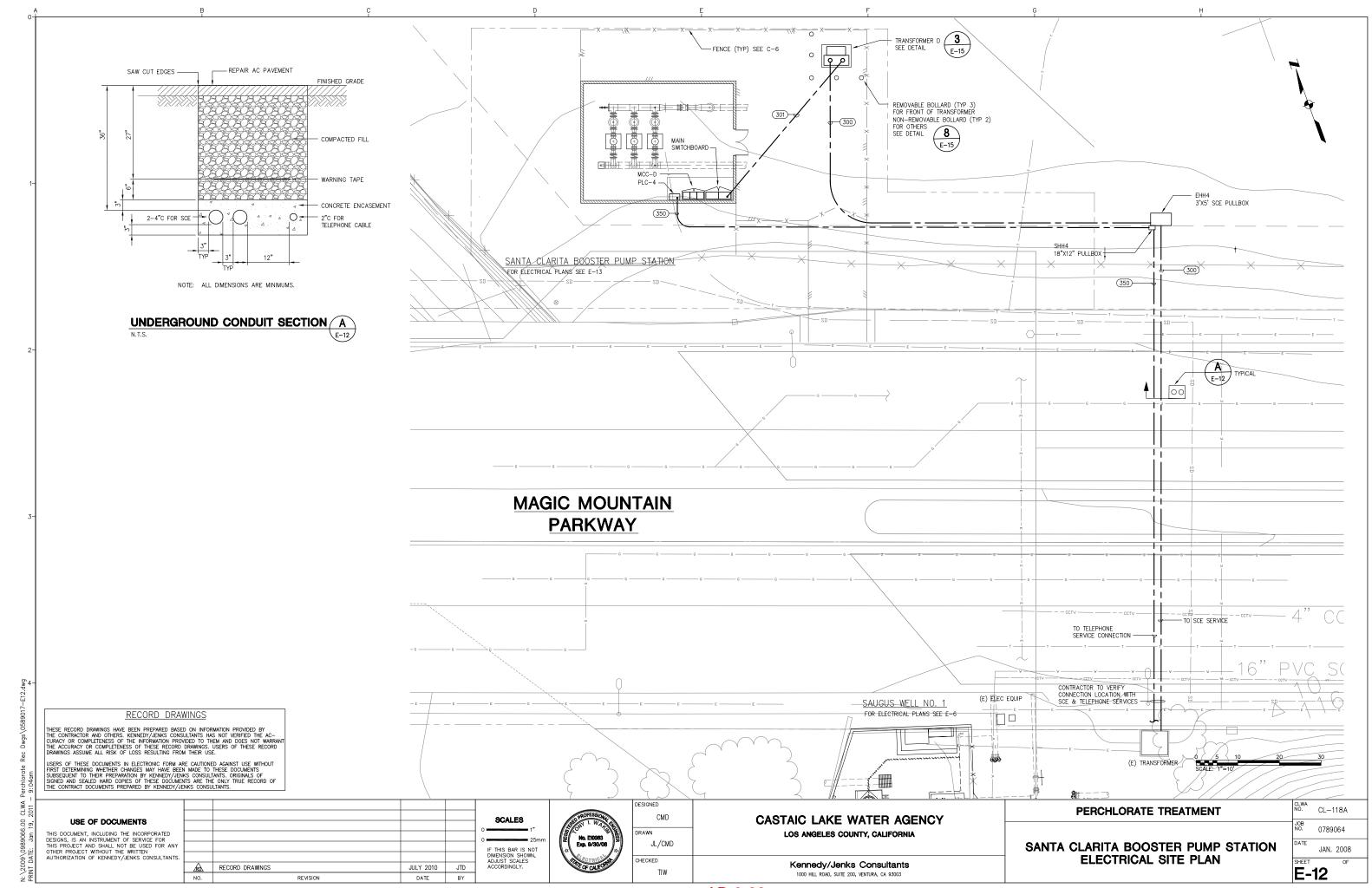


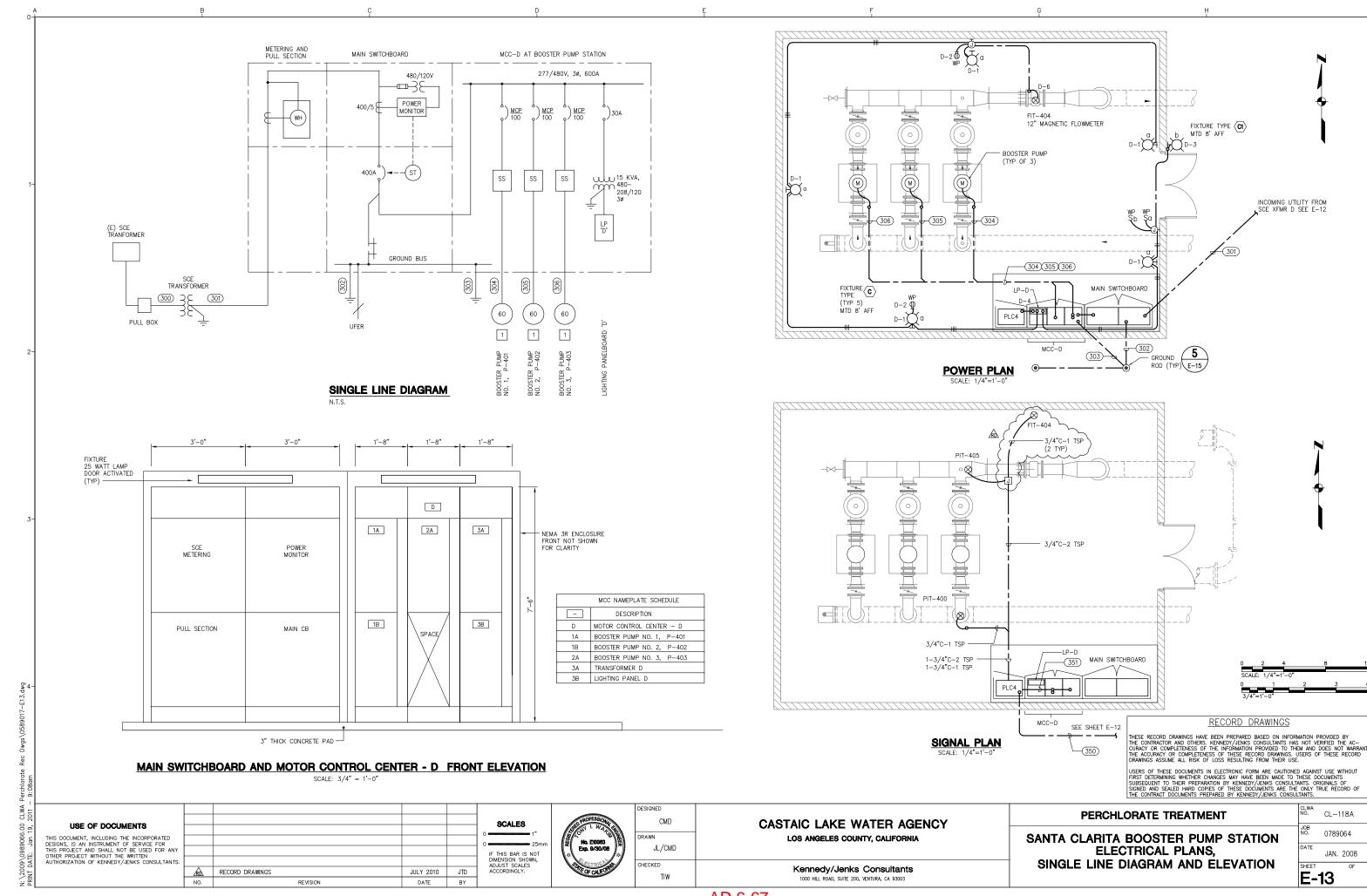












B C D E F G

			PAN	IELBO/	ARD	"D"	SCHEDULE				
1	208Y/120 VOLTS, 3 PHASE, 4 WIRE		100 AM	MP BUS			70 AMP MAIN		MOUNTIN	G: MCC	
CKT	DECODIDATION	CONNEC	CTED VOL	T-AMPS	AMPS,	CKT	DECODIDATION	CONNEC	CTED VOL	T-AMPS	AMPS/
No.	DESCRIPTION	Α	В	С	POLES	No.	DESCRIPTION	A	В	С	POLES
1	LTG-BOOSTER PUMP STATION-INTERIOR	235			20/1	2	RCPT-BOOSTER PUMP STATION	540			20/1
3	LTG-BOOSTER BUMP STATION-EXTERIOR		128		20/1	4	FIT-404		250		20/1
5	SPARE			-	20/1	6	PLC-4			500	20/1
7	SPARE	-			20/1	8	SPARE	-			20/1
9	SPARE		-		20/1	10	SPARE		-		20/1
11	SPACE			-	-	12	SPACE				-
13		-			-	14		-			-
15			-		-	16			-		-
17				-	-	18				-	-
19		-			-	20		-			-
21			-		-	22			-		-
23	•			-	-	24	†			-	-
SUE	TOTALS	235	128	0				540	250	500	
PHA	SE TOTALS							775	378	500	
TOT	AL VOLT-AMPS								1653	•	

TEXT SCREEN	= GFI CIRCUIT BREAKER
-------------	-----------------------

		C	ONDUIT	SCHEDULE	•			
NUMBER	FROM	ТО	SIZE	POWER	GROUND	CONTROL	SIGNAL	REMARKS
300	SCE SOURCE	SCE XFMR	2-4"	* *				WIRING BY SCE
301	SCE XFMR	MAIN SWBD	4-4"					WIRING BY SCE
302	MAIN SWBD	GND	1"		1#2			
303	MAIN SWBD	GND	1"		1#2			
304	MCC-D	BOOSTER PUMP NO. 1	2 1/2"	3#1	1#6		2#14	PLUS 2#14 SPARES
305	MCC-D	BOOSTER PUMP NO. 2	2 1/2"	3#1	1#6		2#14	PLUS 2#14 SPARES
306	MCC-D	BOOSTER PUMP NO. 3	2 1/2"	3#1	1#6		2#14	PLUS 2#14 SPARES
307	MCC-D	TRANSFORMER D	3/4"	3#8	1#10			
350	TELEPHONE SOURCE (NOTE 1)	PLC4	2"				***	TELEPHONE CABLE
351	PLC4	MCC-D	1"				24#14	PLUS 6 SPARES

LIGHT FIXTURE SCHEDULE							
FIXTURE	LAMP			1 ø		DESCRIPTION	CATALOG NUMBER
TYPE	No.	TYPE	WATTS	VOLTS	ARRANGEMENT	DESCRIPTION	ON INCOO NOMBER
C	1	COMPACT FLUOR 3200 LUMENS 42 WATT BIAX TUBE	47	120	WALL	DEEP SHIELDED FULL FRONT SHROUD TO ELIMINATED GLARE. INJECTION MOLDED ACRYLIC LENS, ALUMINUM DIE—CAST HOUSING IN BRONZE FINISHED, GASKETED, ELECTRONIC BALLAST, BRONZE COLOR SHROUD, SURFACE BOX WITH PHOTOCELL.	RUUD E8242-6L ESB-7-120-P
(C1)	1	HPS 100 WATTS	128	120	WALL	WALLPACK IV, ANODIZED ALUMINUM REFLECTOR, PRISMATIC THERMAL SHOCK RESISTANT BOROSILICATE GLASS REFRACTOR, INTEGRAL HID BALLAST, WEATHER RESISTANT DIE-CAST ALUMINUM HOUSING, UL FOR WET LOCATION, WITH INTEGRAL PHOTOCELL CONTROL.	HOLOPHANE W4-050HP-12-S-G-B

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USE OF DOCUMENTS

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	ÆÒ	RECORD DRAWINGS	JULY 2010	JTD	1
	NO.	REVISION	DATE	BY	

SCALES

1"
25mm

IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES
ACCORDINGLY.

No E10883 Exp. 9/30/08

	DESIGNED
	CMD
NEER →	DRAWN JL/CMD
	CHECKED

TIW

CASTAIC LAKE WATER AGENCY LOS ANGELES COUNTY, CALIFORNIA

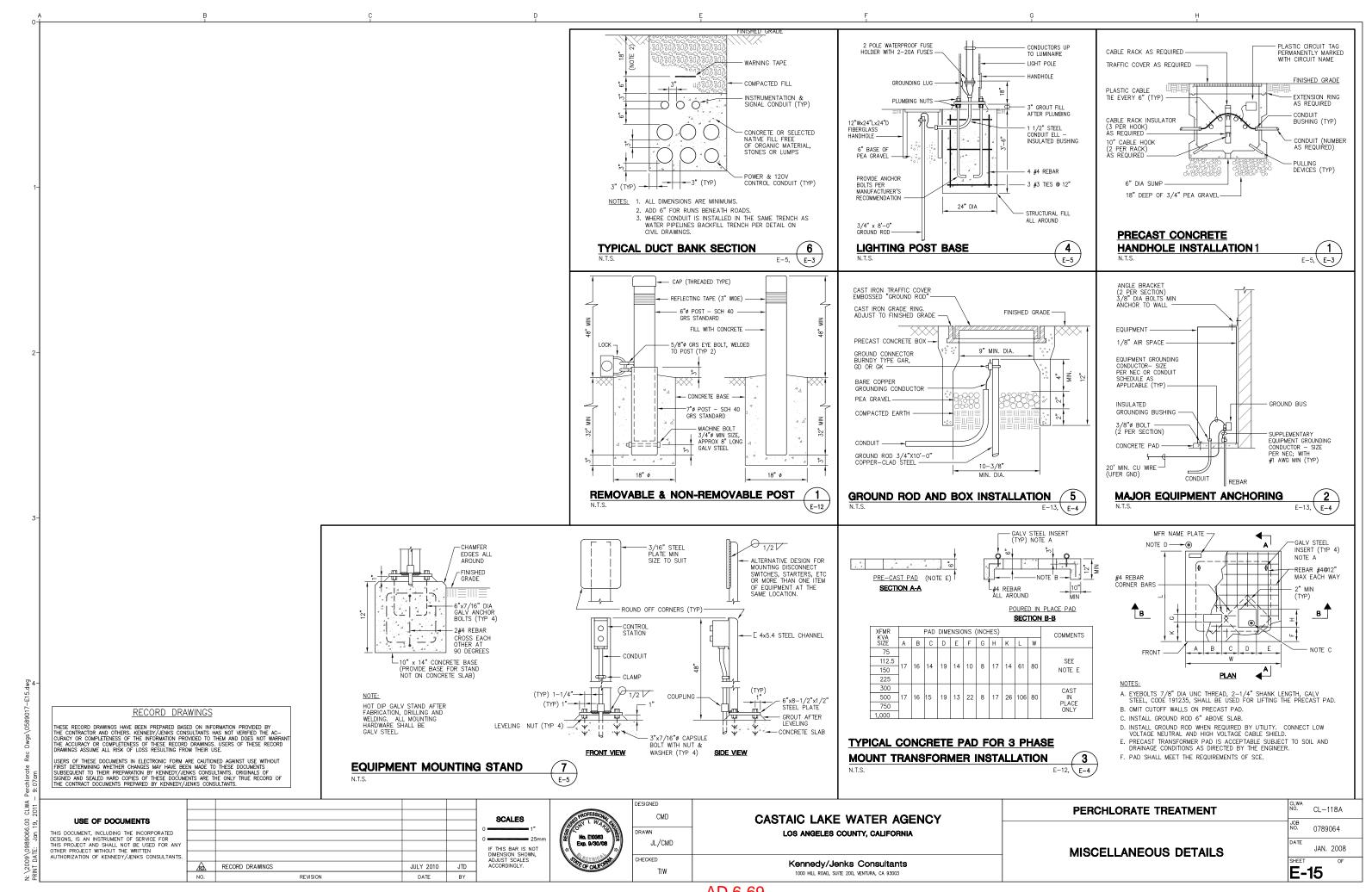
Kennedy/Jenks Consultants
1000 HILL ROAD, SUITE 200, VENTURA, CA 93003

PERCHLORATE TREATMENT

SANTA CLARITA BOOSTER PUMP STATION ELECTRICAL SCHEDULES

JOB NO. 0789064

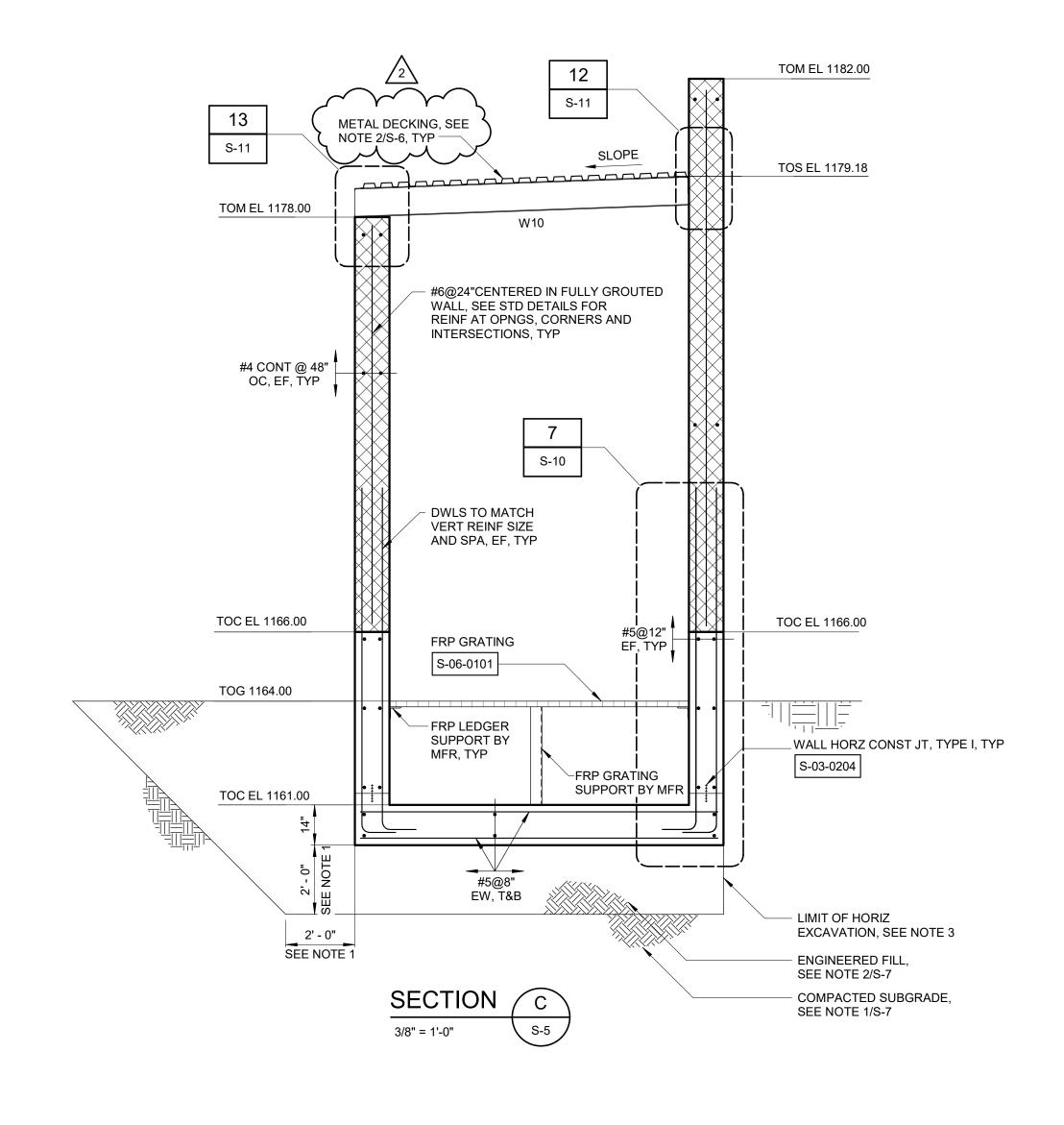
JAN. 2008

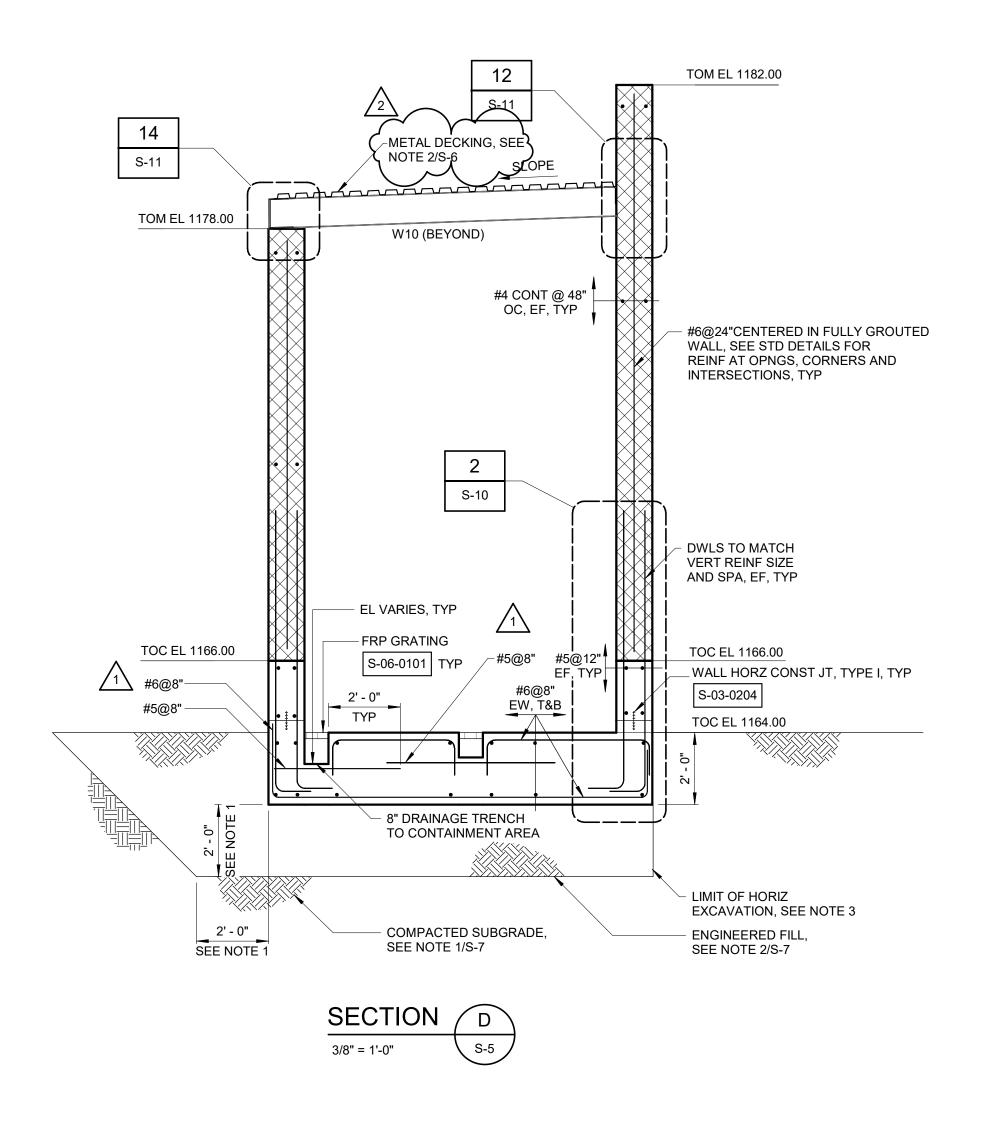


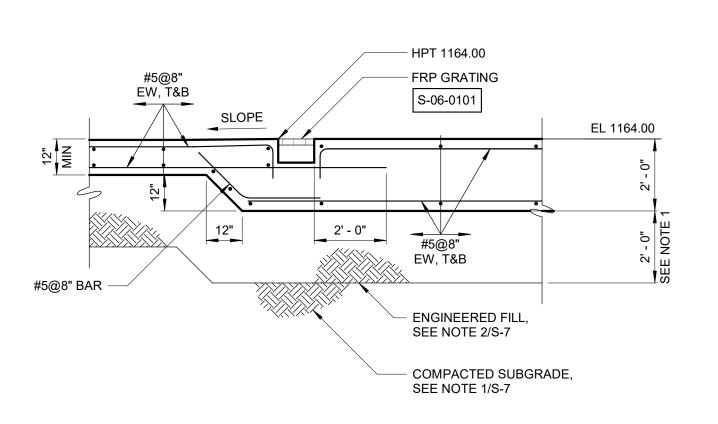
NOTES: 1. OVER-EXCAVATION SHALL EXTEND VERTICALLY 2'-0" BELOW SLAB BOTTOM ELEVATION AND LATERALLY 2'-0" ALL AROUND UNLESS SHOWN OTHERWISE ON THE DRAWING. EXPOSED BOTTOM OF EXCAVATION SHALL BE SCARIFIED A MINIMUM DEPTH OF 6", MOISTURE-CONDITIONED TO WITHIN +/-3% OF OPTIMUM MOISTURE CONTENT FOR COARSE-GRAINED SOILS, AND 0 TO 2% ABOVE OPTIMUM MOISTURE CONTENT FOR FINE-GRAINED SOILS. RECOMPACT SUBGRADE TO AT LEAST 90% RELATIVE COMPACTION. THE BOTTOM OF EXCAVATION SHALL BE OBSERVED BY A QUALIFIED GEOTECHNICAL ENGINEER TO VERIFY SUITABILITY OF SUBGRADE PRIOR TO BACKFILLING AND CONSTRUCTION OF CONCRETE FOUNDATION. 2. IN CONFORMANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL INVESTIGATION, ENGINEERED FILL MATERIAL SHALL BE PLACED IN UNIFORM LIFTS NO GREATER THAN 8 INCHES IN UNCOMPACTED THICKNESS. ENGINEERED FILL SHALL BE MOISTURE CONDITIONED TO WITHIN 3 PERCENT OF OPTIMUM FOR COARSE SOILS AND 0 TO 2 PERCENT ABOVE OPTIMUM FOR FINE SOILS, AND COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM DRY DENSITY PER ASTM D1557. 3. HORIZONTAL OVER-EXCAVATION AT WEST AND NORTH SIDES OF BUILDING LIMITED BASED ON PROPERTY LINE, SEE CIVIL SITE LAYOUT AND HORIZONTAL CONTROL PLAN C-4. CONTRACTOR SHALL PROVIDE EXCAVATION SUPPORT SYSTEM AS REQUIRED TO FACILITATE VERTICAL OVER-EXCAVATION. TOM EL 1184.67 - METAL DECKING, SEE NOTE 1/S-6 TOS EL 1183.33 TOM EL 1182.00 - METAL DECKING, SEE S-11 NOTE 2/S-6, TYP TOM EL 1180.00 —L4 TOS EL VARIES EL 1178.00 TYP MASONRY OPNGS W10, TYP S-04-0202 TYP S-11 #4 CONT @ 48" OC, EF, TYP EL 1175.33 #6@24"CENTERED IN FULLY GROUTED WALL, SEE STD DETAILS FOR REINF AT OPNGS, CORNERS AND INTERSECTIONS, TYP S-10 - DWLS TO MATCH VERT REINF SIZE AND SPA, EF, TYP S-10 TOC EL 1166.00 TOC EL 1166.00 FRP GRATING, SEE NOTE 3/S-5 TOC EL 1166.00 #5@12" EF #5@12" EF _ WALL HORZ CONST JT, TYPE I #6@8" EW, T&B S-06-0101 S-03-0204 TYP TOC EL 1164.00 FRP LEDGER SUPPORT BY MFR, TYP #5@8" EW, T&B #5@8" EW, T&B FRP GRATING SUPPORT BY MFR, SEE NOTE 3/S-5 #5 DWLS @8", TYP LIMIT OF HORIZ EXCAVATION, SEE NOTE 3 2' - 0" SEE NOTE 1 COMPACTED SUBGRADE, SEE NOTE 1 ENGINEERED FILL, SEE NOTE 2 SECTION / REVISIONS SCV WATER T7, U4, U6 WELLS PFAS TREATMENT, SAUGUS 1 AND 2 WELLS JANUARY 2024 S. DUPUIS DATE DESCRIPTION Hazen SCALES **VOC TREATMENT AND NEW DISINFECTION FACILITY** PROJECT NO. SCVWA: 2400420 FREDERICK SANTA CLARITA VALLEY WATER AGENCY IF THIS BAR IS NOT DIMENSION SHOWN, ADJUST SCALES ACCORDINGLY. STRUCTURAL HAZEN AND SAWYER 7700 IRVINE CENTER DRIVE, SUITE 200 ENGINEERING SERVICES SECTION CHECKED BY: 26521 SUMMIT CIRCLE SANTA CLARITA, CA. 91350 (661) 259-2737 S-7 CHEMICAL BUILDING SECTIONS 1 IRVINE, CALIFORNIA 92618 W. DRESSLER 02/2024 SPD ADDENDUM NO. 6 AD 6-70

NOTES:

- 1. REFER TO NOTES ON DRAWING S-7 FOR OVER-EXCAVATION REQUIREMENTS, SUBGRADE PREPARATION AND ENGINEERED FILL.
- 2. HORIZONTAL OVER-EXCAVATION AT WEST AND NORTH SIDES OF BUILDING LIMITED BASED ON PROPERTY LINE, SEE CIVIL SITE LAYOUT AND HORIZONTAL CONTROL PLAN C-4. CONTRACTOR SHALL PROVIDE EXCAVATION SUPPORT SYSTEM AS REQUIRED TO FACILITATE VERTICAL OVER-EXCAVATION.







SECTION E 3/8" = 1'-0"

		REVISIONS			I	
	NO.	DESCRIPTION	DATE	ВҮ	SCALES	
AM 2					0 1"	
:20:35					0 25MM IF THIS BAR IS NOT	
.4 7:					DIMENSION SHOWN, ADJUST SCALES	
/202	2	ADDENDUM NO. 6	02/2024	SPD	ADJUST SCALES ACCORDINGLY.	
2/22/2024	1	ADDENDUM NO. 2	01/2024	SPD	AGGGRENIGET.	

S. DUPUIS FREDERICK HAZEN AND SAWYER 7700 IRVINE CENTER DRIVE, SUITE 200 CHECKED BY: IRVINE, CALIFORNIA 92618 W. DRESSLER



T7, U4, U6 WELLS PFAS TREATMENT, SAUGUS 1 AND 2 WELLS VOC TREATMENT AND NEW DISINFECTION FACILITY

STRUCTURAL CHEMICAL BUILDING SECTION 3

JANUARY 2024 PROJECT NO. SCVWA: 2400420

S-9

