

INVERNESS PUBLIC UTILITY DISTRICT

FIRE DEPARTMENT  WATER SYSTEM

50 INVERNESS WAY NORTH • P.O. BOX 469 • INVERNESS CA 94937 • (415) 669-1414

Board of Directors

AGENDA

Regular Meeting

Wednesday, February 24, 2021

9:00 a.m.

Teleconference

Coronavirus (COVID-19) Advisory Notice

Video and Teleconference Meetings During COVID-19 Emergency: The health and safety of community members, public officials, and employees is a top priority for the IPUD. In compliance with local and state shelter-in-place orders, and as allowed by the Brown Act as currently in effect under the State Emergency Services Act, the Governor's Emergency Declaration related to COVID-19, and the Governor's Executive Order N-29-20 (March 17, 2020), the IPUD will not offer an in-person meeting location for the public to attend this meeting. The meeting is limited to essential district business items and will be conducted by the IPUD Board and staff via teleconference (see below). Members of the public are encouraged to participate remotely from a safe location as described below.

To participate by phone:

- **Dial: 669 900 9128**
- **Meeting ID: 919 3516 0771**
- **Passcode: 313220**
- **Keep your phone on "mute" except when you have been recognized as a speaker**

To participate by video: <https://zoom.us/j/91935160771?pwd=U254dmRsVXJWUFJdE9NSkhRVUQ5dz09>

Opening 9:00 a.m.

- 1. Call to Order; Attendance Report**
- 2. Award Contract for Tenney Tanks Replacement Project to Lowest Qualifying Bidder:** Per recommendation of Brelje & Race Consulting Engineers
- 3. Inverness Foundation Survey on Proposed Parcel Tax Initiative Ordinance**
 - Presentation by Jerry Meral and Kathy Hartzell of the Inverness Foundation
 - Staff report on its analysis of the proposed ordinance
 - Public comments (comments may be time limited, at the discretion of the President)
 - Questions/comments by the Directors
- 4. Approval of Minutes:** Regular meeting of December 16, 2020

The State of the District

- 5. Management Report:** Shelley Redding, Jim Fox
 - FY2021 Financials
 - Financial Reports
 - 2019/20 Audit Update
 - Capital Projects Accounting December 2020 to January 2021

Material provided in the meeting packet is available on the District's website, www.invernesspubd.org, or by contacting the District office.

Items may not be taken up in the order shown on this Agenda.

For assistance in participating in this event due to a disability as defined under the ADA, please call in advance to (415) 669-1414.

THE PUBLIC IS CORDIALLY INVITED TO PARTICIPATE IN THIS MEETING

**BOARD OF DIRECTORS: KENNETH J. EMANUELS, PRESIDENT • DAKOTA WHITNEY, VICE PRESIDENT
KATHRYN DONOHUE, TREASURER • BRENT JOHNSON • DAVID PRESS**



**SHELLEY REDDING, ADMINISTRATOR/CLERK OF THE BOARD
JAMES K. FOX, CHIEF OF OPERATIONS (FIRE CHIEF, WATER SYSTEM SUPERINTENDENT)**

- MWPA Update
- Inverness Disaster Council (IDC) Update
- MERA Update
- Marin LAFCo

6. **Water System Reports, December 2020 & January 2021:** Superintendent Jim Fox

7. **Fire Department Reports, December 2020 & January 2021:** Chief Jim Fox

The Business of the District

8. **Approve Expenditures and Credit Card Charges:** December 2020 & January 2021

9. **Election of Officers and Appointments to Board Committees for 2021**

10. **Committee Meetings/Reports**

- **Recruitment Update - Fire Chief Position**
- **Recruitment Plan – Water Superintendent Position**

11. **Public Expression:** Opportunity for members of the public to address the Board on matters under the Board's jurisdiction but not on the posted agenda. Directors or staff "*may briefly respond to statements made or questions posed*" during Public Expression, but "*no action or discussion shall be undertaken on any item not appearing on the posted agenda*" (Gov. Code §54954.2(a)(3)). Members of the public may comment on any item listed on the posted agenda at the time the item is considered by the Board.

Closing

12. **Announcements, Next Meeting, Adjournment**

Posted: February 19, 2021



Inverness Public Utility District
Board Meeting February 24, 2021

Agenda Item No. 1

Call to Order;
Attendance Report



Inverness Public Utility District
Board Meeting February 24, 2021

Agenda Item No. 2

**Award Contract for Tenney
Tank Replacement Project to
Lowest Qualifying Bidder:
Per Recommendation of Brelje & Race
Consulting Engineers**

February 19, 2021

Shelley Redding, General Manager
Inverness Public Utilities District
PO Box 69
Inverness, CA 94937

**Subject: Tenney Tank Site – Water Tank Replacements
B&R Project No. 2630.05**

Dear Ms. Redding,

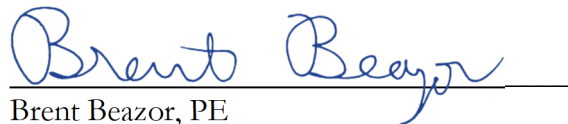
Construction bids for the subject project were opened at the office of Brelje & Race on February 17, 2021. A total of five bids were received ranging from a low base bid of \$512,373 to a high base bid of \$818,750. The low base bid was submitted by Piazza Construction. Piazza Construction's base bid plus additive item A1 total is \$539,488. The additive item adds cathodic protection to the two tanks.

The published Engineer's Estimate for the project was \$565,000, with a contingency allowance of \$85,000. Attached for your information is a Bid Tabulation that includes the name of each contractor that submitted a bid and well as their proposed pricing for the various items of work. Each bid package was reviewed and determined to be responsive to the bidding requirements, including a requisite breadth of relevant experience.

Based on the foregoing, it is our recommendation that the District proceed to award the contract to Piazza Construction., the contractor having submitted the lowest responsive bid in the amount of \$512,373. Should the District desire to add cathodic protection to the tanks the contract amount would be \$539,488.

Very truly yours,

BRELJE & RACE


Brent Beazor, PE

enc.

BID TABULATION | Inverness Public Utility District | Tenney Tank Site Water Tank Replacements | Bid opening: February 17, 2021 - 2:00PM

Item No	Item Description	Estimated Quantity	Valentine Corporation		WR Forde Associates, Inc.		Team Ghilotti, Inc.		Azul Works, Inc.		Piazza Construction	
			Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
1	Demolition	1	\$100,000.00	\$100,000.00	\$60,000.00	\$60,000.00	\$25,777.00	\$25,777.00	\$60,000.00	\$60,000.00	\$40,030.00	\$40,030.00
2	Site Development	1	\$40,000.00	\$40,000.00	\$125,000.00	\$125,000.00	\$47,500.00	\$47,500.00	\$59,500.00	\$59,500.00	\$30,555.00	\$30,555.00
3	Over Excavation	20	\$230.00	\$4,600.00	\$100.00	\$2,000.00	\$215.00	\$4,300.00	\$220.00	\$4,400.00	\$50.00	\$1,000.00
4	Tank Foundation Concrete	57	\$1,145.00	\$65,265.00	\$1,500.00	\$85,500.00	\$1,685.00	\$96,045.00	\$1,930.00	\$110,010.00	\$1,057.00	\$60,249.00
5	Tank Foundation Reinforcement Steel	3800	\$3.25	\$12,350.00	\$2.80	\$10,640.00	\$2.20	\$8,360.00	\$4.30	\$16,340.00	\$2.35	\$8,930.00
6	Thermoset Powder Coated Bolted Steel Tank 1	1	\$135,000.00	\$135,000.00	\$125,000.00	\$125,000.00	\$92,986.00	\$92,986.00	\$123,500.00	\$123,500.00	\$105,686.00	\$105,686.00
7	Thermoset Powder Coated Bolted Steel Tank 2	1	\$125,354.00	\$125,354.00	\$110,000.00	\$110,000.00	\$82,986.00	\$82,986.00	\$138,000.00	\$138,000.00	\$93,766.00	\$93,766.00
8	Piping and Appurtenances	1	\$153,000.00	\$153,000.00	\$250,000.00	\$250,000.00	\$193,187.00	\$193,187.00	\$273,000.00	\$273,000.00	\$150,247.00	\$150,247.00
9	Shed	1	\$16,400.00	\$16,400.00	\$12,000.00	\$12,000.00	\$27,000.00	\$27,000.00	\$15,500.00	\$15,500.00	\$14,460.00	\$14,460.00
10	Underground Electrical Conduits	1	\$8,400.00	\$8,400.00	\$4,000.00	\$4,000.00	\$9,000.00	\$9,000.00	\$18,500.00	\$18,500.00	\$7,450.00	\$7,450.00
Base Bid Total				\$660,369.00		\$784,140.00		\$587,141.00		\$818,750.00		\$512,373.00
A1	Passive Cathodic Protection System	1		\$28,000.00	\$32,000.00	\$32,000.00	\$27,000.00	\$27,000.00	\$28,000.00	\$28,000.00	\$27,115.00	\$27,115.00
Base Bid Total plus Additive A1				\$688,369.00		\$816,140.00		\$614,141.00		\$846,750.00		\$539,488.00

**Construction Management Assistance
Amendment Proposal
for
Tenney Tank Site Water Tank Replacements
Inverness Public Utilities District**

February 19, 2021

PROPOSED SCOPE OF WORK

The Inverness Public Utilities District (District) is going to manage the construction of the Tenney Tank Site Water Tank Replacements project. Brelje and Race Consulting Engineer proposes to provide the following assistance during the construction of the project.

- Shop drawing review including AIS certifications.
- Provide staking of the project in three trips by the survey crew.
- Progress payment application review and processing.
- Review the coatings on the tank parts upon tank delivery.
- Observe holiday testing of the bottom of the tank floor and holiday repairs (if discovered.)
- Observe vacuum testing of the tank floor after tank is erected.
- Observe the holiday testing of the interior of the tank after tank is erected.
- Observe the holiday testing of any interior repairs.
- Respond to requests for information (RFI) by the Contractor as directed by the District
- Prepare contract change orders (CCO) as directed by the District.

BUDGET ESTIMATE

All work will be accomplished on a time and material basis. The budget will be monitored and will not be exceeded without prior written or email authorization from the District. Contingencies have not been provided in the estimate.

An amendment budget estimate of **\$35,000** has been established for the above scope of services.

ITEMS NOT IN SCOPE

Tasks not specifically listed in the above services are not included in this amendment.

Should additional services be desired or become necessary, Brelje and Race would be pleased to provide a proposal for their incorporation into the project as an additional amendment to our contract.

SERVICES TO BE PROVIDED BY CLIENT

1. Act as the applicant for any permits or regulatory approvals required for the inspection and pay all associated fees.
2. Prepare all documentation required by the State not specifically listed above.
3. Perform construction observation.
4. Perform all tasks not in Scope of Services above as necessary for completion of the project.

SPECIFICATIONS

TENNEY TANK SITE WATER TANK REPLACEMENTS

INVERNESS PUBLIC UTILITY DISTRICT

JANUARY 2021



Brelje & Race Consulting Engineers

475 Aviation Blvd., Suite 120

Santa Rosa, CA 95403

v. 707.576.1322 • f. 707.576.0469

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SECTION "A"

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TENNEY TANK SITE WATER TANK REPLACEMENTS
INVERNESS PUBLIC UTILITY DISTRICT

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SECTION "B"

NOTICE TO BIDDERS

TENNEY TANK SITE WATER TANK REPLACEMENTS
INVERNESS PUBLIC UTILITY DISTRICT

The Inverness Public Utility District (Owner), Marin County, California will receive sealed Bids for the construction and testing of the Tenney Tank Site Water Tank Replacements project, at the office of Brelje & Race Consulting Civil Engineers, 475 Aviation Blvd. Suite 120, Santa Rosa, CA, 95403, on or before 2:00 P.M., February 17, 2021. Bids will be publicly opened, examined, and declared on that day and hour and referred to and considered by the Board of Directors of the Owner at its next meeting. Bids shall be endorsed on the outside of the sealed containers as follows:

TENNEY TANK SITE WATER TANK REPLACEMENTS
INVERNESS PUBLIC UTILITY DISTRICT

By _____
Bidder

Proposals shall be submitted on the Proposal Forms included with the Contract documents. Each bid shall conform and be responsive to this invitation and the specifications and all other documents comprising the pertinent contract documents.

Bidding Documents may be obtained from Drafttech Blueprinting, Inc., 1544 Terrace Way, Santa Rosa, California 95404, telephone: (707) 578-9442. Bidding Documents are available as portable document format (PDF) files emailed for a non-refundable charge of \$35.00. Alternatively, printed Bidding Documents may be obtained via in-person pick-up for a non-refundable charge of \$85.00 or via mail for a non-refundable charge of \$125.00. Entities that obtain bidding documents from Drafttech Blueprinting will be placed on the planholder's list. The Owner, Drafttech Blueprinting or the Engineer will not be responsible for full or partial sets of Bidding Documents, including Addenda if any, obtained from sources other than Drafttech Blueprinting.

The bidding documents may be viewed prior to purchase at the following website (Planwell by Drafttech):

https://order.planwell.com/PWELL_Main.asp?mem=1137

The following information must be placed into the "GUEST ACCESS" login to obtain access to the viewable documents:

Project Number: DRA0_Iverness Public

Password: Bidder

(Note: viewing plans online does not place a bidder on the planholder's list, documents must be purchased from Drafttech to be placed on the planholder's list).

The following plan rooms have also received electronic copies of the bidding documents for viewing by potential bidders prior to purchase from Draftech Blueprinting Inc.

North Coast Builders Exchange, Santa Rosa California
Bay Area Builders Exchange, San Leandro, California
Construction Bid Board, Inc., San Diego, California
Dodge Data & Analytics, Arlington, Texas
Placer County Contractors Association, Roseville, California
CalBX, Sacramento California
Contra Costa Builders Exchange, Concord, California

Questions concerning these documents should be directed to: Brent Beazor at Brelje & Race Consulting Engineers, 475 Aviation Blvd., Suite 120, Santa Rosa, CA 95403. Phone: (707) 576-1322 Ext. 223. E-mail: beazor@brce.com

Each Bid shall be accompanied by a certified or cashier's check payable to the Owner, or a satisfactory Bid Bond in favor of the Owner, executed by the Bidder as principal, and a satisfactory admitted surety company as surety, in an amount not less than 10% of the maximum amount of the Bid. The check or Bid Bond shall be given as a guarantee that the Bidder shall execute the Contract, if awarded to Bidder, in conformity with the Contract Documents and shall provide the a Faithful Performance Bond and a Labor and Material Bond for 100% of the Total Contract Price, conditioned upon the faithful performance of said Contract, said bonds to be provided within fourteen (14) calendar days after the mailing date of the Notice of Award. A maintenance bond for 100% of the Final Contract Price shall be provided prior to issuance of the final payment.

The work to be performed under this contract is located within the community of Inverness, California. The work includes construction of two bolted steel water storage tanks and associated demolition, site development and site piping.

A pre-bid meeting will be conducted at 10 a.m. local time on February 2, 2021 commencing at the District's office located at 50 Inverness Way, Inverness, California. The pre-bid meeting is mandatory and will conclude with a visit to the site of work for the purpose of viewing access and work area limitations. Transportation to the project site will be the responsibility of the prospective bidders. All attendees will be required to sign an attendance sheet listing their names and the prospective bidder(s) they represent. Bids submitted by contractors that did not have a representative at the pre-bid meeting will be returned unopened.

Pursuant to Section 1771.1(a) of the Labor Code of the State of California, a 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, as defined in Chapter 1 (Public Works) of Part 7 (Public Works and Public Agencies) of Division 2 (Employment Regulation and Supervision) of the Labor Code, unless currently registered and qualified to perform public work pursuant to Section 1725.5. It is not a violation of Section 1771.1(a) for an unregistered contractor to submit a bid that is authorized by Section 7029.1 of the Business and Professions Code or by Section 10164 or 20103.5 of the Public Contract code, provided the contractor is registered to perform public work pursuant to Section 1725.5 at the time the contract is awarded.

Pursuant to Sections 1720 et seq. and 1770 et seq., of the Labor Code of the State of California, the successful bidder and any subcontractors shall pay not less than the prevailing rate of per diem wages as determined by the Director of the California DIR. Copies of such prevailing rate of per diem wages are on file in the offices of the Owner, to which reference is hereby made for further particulars. The prevailing rate of per diem wages shall be made available any interested party on request. The successful bidder shall post a copy of such determinations at each job site.

The Owner reserves the right to reject any or all Bids and to determine which Proposal is the lowest Bid of a responsive, responsible Bidder. The Owner also reserves the right to waive any minor irregularity not material to the cost of performance in a Proposal or Bid, and to award to the lowest responsive, responsible Bidder as it may best serve the interests of the Owner.

No Bids may be withdrawn for a period of ninety (90) days after the date set for the opening of Bids.

More than one Proposal from an individual, firm, partnership, corporation, or combination thereof under the same or different names will not be considered. Reasonable grounds for believing that any individual, firm, partnership, corporation, or combination thereof is interested in more than one Proposal for the Work contemplated may cause the rejection of all Proposals in which such individual, firm, partnership, corporation or combination thereof is interested. If there is reason for believing that collusion exists among the Bidders any or all Proposals may be rejected. Proposals in which the prices obviously are unbalanced may be rejected.

Nothing in this section shall prohibit material suppliers or subcontractors from quoting prices to more than one Bidder.

American Iron and Steel Requirements apply to this project. All listed iron and steel products used in this project must be produced in the United States. The term "iron and steel products" means the following products made primarily of iron and 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.

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SECTION "C"

INFORMATION FOR AND INSTRUCTIONS TO BIDDERS

TENNEY TANK SITE WATER TANK REPLACEMENTS INVERNESS PUBLIC UTILITY DISTRICT

LOCATION AND EXTENT OF WORK

The work to be performed under this contract is located within the community of Inverness, California. The work includes construction of two bolted steel water storage tanks and associated demolition, site development and site piping.

CONDITION OF PROPOSAL

All Proposals must be made on the blank Proposal form prepared by the Owner and must give the unit price of each item and the unit price extended to total, opposite each of the items which are called for in the Proposal Form. If the unit prices and total costs do not agree, the unit prices stated shall control.

The Owner reserves the right to reject any or all Proposals. The Owner further reserves the right to increase or decrease the amount of any class or portion of the work. The Owner also reserves the right to waive any informalities in a Proposal not material to the cost to perform the work.

The price or prices bid must include all work and all materials of every kind or class as specified or shown on the Drawings or reasonably understood as included in a Contract of this nature, and the Bidder must consider the cost of all such work and materials and allow for all such costs under whatever items he considers appropriate. It is the desire of the Owner to secure a complete and proper performance of the Contract, and Bidders must make their Proposals with this understanding, and the prices bid must fully recognize this requirement. All Bidders are hereby expressly warned that they must expect to furnish equipment which shall exactly fulfill the requirements of the Specifications and comply with the details shown on the Drawings.

The Proposal must be signed by the Bidder with his business address. In signing the proposal, the Bidder shall give the individual as well as the firm or corporate name, as hereinafter provided for in the Proposal. Bidders are warned against making erasures or alterations of any kind, and Proposals which contain omissions, erasures, conditions, alterations, or additions not called for, additional Proposals or irregularities of any kind may be rejected as informal.

EXAMINATION OF DRAWINGS, SPECIFICATIONS, CONTRACT AND SITE OF WORK

The Bidder shall examine carefully the site of the Work contemplated, the Drawings and Specifications, and the Proposal and Contract Documents therefor. The submission of a Bid shall be conclusive evidence that the Bidder has investigated and is satisfied as to the conditions to be encountered, as to the character, quality, and scope of Work to be performed, the quantities of

materials to be furnished, and as to the requirements of the Proposal, Drawings, Specifications, and the Contract.

No oral interpretations or clarification of the drawings and specifications will be made prior to the bid opening. Any such requests must be made in writing and will be answered in writing. If errors are found, the bidder must provide written notification as soon as possible prior to the bid opening in order that letters of clarification can be prepared and given to all bidders.

No information derived from such inspection of records of investigations or compilation thereof made by the Owner, its Engineer, or any other representative of the Owner will in any way relieve the Bidders or Contractor awarded the project from any risk or from properly fulfilling the terms of the Contract.

BIDDERS ABILITY

Each Bidder must be licensed, skilled and regularly engaged in the general class or type of work called for under this Contract. It is the intention of the Owner to award the Contract only to a bidder who has the requisite experience and ability in this class of work, and has sufficient capital, facilities, and plant to enable him to prosecute it successfully and promptly and to complete it within the time named in the Contract. In determining the degree of responsibility to be credited to a Bidder, the Owner will weigh any definite evidence that the Bidder or personnel guaranteed to be employed in responsible charge of performance of the Contract has satisfactorily performed other contracts of like nature and magnitude or comparable difficulty at similar rates of progress. Bidders must submit such evidence with their Proposals (see Statement of Experience located in Section D). Contractor must possess a Class A contractor's license.

PRE-BID CONFERENCE AND SITE TOURS

A pre-bid meeting will be conducted at 10 a.m. local time on February 2, 2021 commencing at the District's office located at 50 Inverness Way, Inverness, California. The pre-bid meeting is mandatory and will conclude with a visit to the site of work for the purpose of viewing access and work area limitations. Transportation to the project site will be the responsibility of the prospective bidders. All attendees will be required to sign an attendance sheet listing their names and the prospective bidder(s) they represent. Bids submitted by contractors that did not have a representative at the pre-bid meeting will be returned unopened.

NON-COLLUSION AFFIDAVIT

All bidders are required to execute and submit a non-collusion affidavit with their bid (see affidavit located in Section D).

APPROXIMATE ESTIMATE

The quantities given in the notice, proposal and agreement are approximate only, being given as a basis for the comparison of bids. The Owner does not expressly or by implication, agree that the actual amount of work will correspond therewith, and reserves the right to increase or decrease the amount of any class or portion of the work, or to omit portions of the work, as may be deemed necessary or advisable by the Engineer.

ADDENDUM

Every interpretation of the Specifications, changes, additions, or corrections will be in the form of addenda to the Contract Documents and, when issued, will be on file at the office of the Engineer before Bids are opened. In addition, all addenda will be e-mailed to each person holding Contract Documents, but it shall be the Bidder's responsibility to make inquiry as to the addenda issued. All such addenda shall become part of the Contract Documents and all Bidders shall be bound by such addenda whether or not received by the Bidders.

PROPOSAL GUARANTY

Each proposal must be accompanied by a certified check, a cashier's check or Bidder's Bond in the amount of ten (10) percent of the amount bid (Proposal Guaranty). Although use of this particular form is not mandatory, EJCDC Form C-430 is an acceptable bid bond form.

No Bid will be considered unless such cashier's or certified check or Bidder's Bond is enclosed therewith. All such certified checks, cashier's checks, or Bidder's Bonds must be made payable to the Owner and must be satisfactory to the Owner.

Any Surety executing a Bid Bond must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in California. The Surety must agree that the obligations of the Surety and its bond shall be in no way impaired or affected by any extension of the time within which the Owner may accept such Bid; and the Surety does hereby waive notice of any such extension.

Should the successful Bidder refuse or fail within the time herein provided to either execute the Contract for performing the work or fail to post the Faithful Performance Bond and Material and Labor Bond herein provided for, a forfeiture of his Proposal Guaranty accompanying his Proposal shall be caused as liquidated damages. The Owner may then award the contract to the next lowest responsible bidder.

TIME ALLOWED FOR SIGNING THE CONTRACT

The successful Bidder will be allowed ten (10) calendar days from the date of mailing of the notice that the Contract has been awarded to him by the Owner and that the Contract is ready for signature within which to deliver to the Owner the Contract with his signature affixed thereto, together with the prescribed performance bond and payment bond.

FAITHFUL PERFORMANCE BOND

As a part of the execution of the Contract, the Contractor shall furnish a Bond of an admitted surety insurer for the Faithful Performance of the work under the Contract in a sum equal to one hundred percent (100%) of the total amount payable by the terms of the Contract.

LABOR AND MATERIALS BOND

As a part of the execution of the Contract, the Contractor shall furnish a Bond of an admitted surety insurer, in the sum of not less than one hundred percent (100%) of the total amount payable by the

terms of the contract as set forth in the Agreement, for the payment in full of all persons, companies, or corporations who perform labor upon or furnish materials to be used in the work under the Contract, in accordance with the provisions of Chapter 4 (Payment Bond) of Title 3 (Public Work of Improvement) of Part 6 (Works of Improvement) of Division 4 (General Provisions) of the Civil Code of the State of California, and any acts amendatory thereof, and shall by its terms inure to the benefit of all persons, companies, or corporations entitled to serve a stop notice under Section 9100 of the Civil Code of the State of California.

MAINTENANCE BOND

Prior to the release of final payment under the Contract, the Contractor shall furnish a bond of an admitted surety insurer, in the sum not less than one hundred percent (100%) of the final contract price by the terms of the Contract as set forth in the Agreement.

INSURANCE

Certificates of insurance coverage shall be required of the successful bidder.

PROSECUTION AND DATE OF COMPLETION

The Contractor shall begin work within 20 calendar days after receipt of written Notice to Proceed and shall diligently prosecute all work to completion before the expiration of 220 calendar days, computed from the date of issuance of the notice.

LIQUIDATED DAMAGES BY DELAY

Time is of the essence in the performance of this Contract. In case the work under this Contract is not completed by the date specified, the Contractor shall forfeit to the Owner, as liquidated damages which the Owner will suffer by reason of such delay and default, the sum of \$1,600.00 for each and every calendar day during which this Contract shall remain uncompleted beyond the time specified for completion of all work.

SUBCONTRACTORS

In accordance with Section 4104 of the Public Contract Code, each Bidder, in his Bid shall set forth: (1) The name, location of the place of business, and the Department of Industrial Relations registration number of each subcontractor who will perform work or labor or render services to the Contractor in or about the construction of the work, or improvement, or a subcontractor licensed by the State of California who, under subcontract to the prime contractor, specially fabricates and installs a portion of the work or improvement according to detailed drawings contained in the drawings and specifications, "in an amount in excess of one half of 1 percent of the Contractor's total bid, and (2) The portion of the work which will be done by each subcontractor. The Contractor shall list only one subcontractor for each portion. In accordance with Section 4107 of the Public Contract Code, no Contractor whose bid is accepted shall without consent of the Owner either: (1) Substitute any person as a subcontractor in place of the subcontractor designated in the original bid; or (2) Permit any such subcontract to be voluntarily assigned or transferred, or allow it to be performed by anyone other than the original subcontractor

listed in the bid. Penalties for failure to comply with the foregoing sections of the Public Contract Code are set forth in Sections 4106, 4110, and 4111 of the Public Contract Code.

SUBSTITUTION OF SECURITIES

Pursuant to Section 22300 of the Public Contract Code, the Contractor is permitted to substitute securities for any monies withheld by the Owner to ensure performance under the Contract. At the request and expense of the Contractor, securities equivalent to the amount withheld shall be deposited with the Owner, or with a State or Federally chartered bank as the escrow agent, who shall then pay such monies to the Contractor. Upon satisfactory completion of the Contract, the securities shall be returned to the Contractor. Alternatively, the Contractor may request and the Owner shall make payments of retention earned directly to the escrow agent at the expense of the Contractor. At the expense of the Contractor, the Contractor may direct the investment of the payments into securities and the Contractor shall receive the interest earned on the investments upon the same terms provided for in this section for securities deposited by the Contractor. Upon satisfactory completion of the Contract, the Contractor shall receive from the escrow agent all securities, interest, and payments received by the escrow agent from the Owner, pursuant to the terms of this section. The Contractor shall pay to each Subcontractor, not later than 20 days of receipt of the payment, the respective amount of interest earned, net of costs attributed to retention withheld from each Subcontractor, on the amount of retention withheld to insure the performance of the Contractor. Securities eligible for investment shall include those listed in Section 16430 of the California Government Code and Section 22300 of the Public Contract Code. The Contractor shall be the beneficial owner of any securities substituted for monies withheld and shall receive any interest thereon.

DISADVANTAGED BUSINESS ENTERPRISE (DBE) REQUIREMENTS

Inverness Public Utility District advises potential bidders that the project is funded in whole or part with federal loan or grant funds through the California Safe Drinking Water State Revolving Fund, and, therefore federal Disadvantaged Business Enterprise (DBE) regulations apply to this project. (Reference 40 Code of Federal Regulations Part 33 – Participation by Disadvantaged Business Enterprises in U.S. Environmental Protection Agency Programs).

Under the DBE Program DBE contractors and sub-contractors must be certified at bid opening. Contractors and sub-contractors must provide to the Owner proof of DBE certification. Certifications will be accepted from the following:

- The U.S. Environmental Protection Agency (USEPA)
- The Small Business Administration(SBA)
- The Department of Transportation's State implemented DBE Certification Program (with U.S. citizenship)
- Tribal, State and Local governments
- Independent private organization certifications

If an entity holds one of these certifications, it is considered acceptable for establishing status under the DBE Program.

The DBE rule requires that responsive bid shall conform with “Good Faith Efforts” to increase DBE awareness of procurement opportunities through race/gender neutral efforts. Race/gender neutral efforts are ones which increase awareness of contracting opportunities in general, including outreach, recruitment and technical assistance. Bidder agrees that it will cooperate with and assist the Inverness Public Utility District in fulfilling the DBE Good Faith Effort Requirement achieving “fair share objectives” and will exercise “Good Faith Efforts” to achieve such minimum participation of small, minority and women owned businesses. In particular, in submitting a bid, the bidder shall, in the selection of any and all contractors, subcontractors, and vendors for the procurement of equipment, supplies, construction, and services related to the project, at a minimum, undertake the following affirmative “Good Faith Efforts” steps:

Good Faith Effort Requirements

1. Include disadvantaged business enterprises on solicitation lists.
2. Assure that disadvantaged business enterprises are solicited whenever they are potential sources, in a way that encourages and facilitates their participation in the competitive process.
3. Divide total requirements, when economically feasible, into small tasks or quantities to permit maximum participation by disadvantaged business enterprises.
4. Establish delivery schedules, when the requirements of the work permit, which will encourage participation by disadvantaged business enterprises.
5. Use the services and assistance of the Small Business Administration and the U.S. Minority Business Development Agency, as appropriate; and
6. If any contractor awards subagreements, require the contractor to take the affirmative steps in paragraphs (1) through (5) of this section.

Each bid must include submission of a Bidders List identifying each subcontractor/supplier/vendor from which a proposal for the project was received. The bidder must provide the following information for each potential subcontractor/supplier/vendor: (1) Firm name; (2) Contact person; (3) Entity’s mailing address; (4) Telephone number; (5) E-mail address; (6) The procurement on which the potential subcontractor/supplier/vendor bid or quoted, and when; and (7) Proposed subcontractor/supplier/vendor status as a disadvantaged business enterprise or non- disadvantaged business enterprise.

Other Requirements:

1. The apparent successful low bidder must submit documentation showing that, prior to bid opening, the required “Good Faith Efforts” were made. The documentation must be received by the Inverness Public Utility District within (5) working days following bid opening, except Bidders List, which is to be submitted **with the bid**. **Failure to submit the Bidders List with the bid will cause the bid to be rejected as non-responsive.**

2. If the apparent successful low bidder is rejected or considered as non-responsive and/or has any non-responsive low DBE sub-bidder, a complete explanation must be provided to the Owner.
3. Apparent successful low bidder must provide evidence of **certification** by one of the aforementioned entities for each Disadvantaged Business Enterprise firm to be utilized. Such certification documentation shall be submitted within (10) working days following bid opening.
4. If additional procurement becomes necessary after the award of the prime contract, the “Good Faith Efforts” shall be applied, and, if Disadvantaged Business Enterprise subcontracts are awarded, Attachment B (Verification of Qualification) shall be provided to the Owner by the prime contractor within 10 working days following the award of each new subcontract.
5. Any deviation from the information contained in the Bidders List shall not result in a reduction of Disadvantaged Business Enterprise participation without prior approval of the Owner.
6. Failure of the apparent low bidder to perform the six affirmative “Good Faith Efforts” steps prior to bid opening and/or to submit the Bidders List with its bid will lead to its bid being declared non-responsive by the Owner. The Owner may then award the contract to the next low responsive, responsible bidder meeting the requirements of these contract provisions.
7. Prime contractor must pay its subcontractor(s) for satisfactory performance no more than 30 days from the prime contractor’s receipt of payment.
8. Prime contractor must provide each proposed subcontractor/supplier/vendor copies of DBE Subcontractor Participation Form [Form 4500-2, Page C-21-C-22] and DBE Subcontractor Performance Form [EPA Form 4500-3, Pages C-23-C-24].
9. Each bid must include submission of DBE Subcontractor Performance Form [Form 4500-3] and DBE Subcontractor Utilization Form [Form 4500-4, Pages C-25-C-26].

Fair Share Objectives

Interested bidders are advised that the fair share objective of 1% for Minority Owned Business Enterprise and 1% for Women Owned Business Enterprise has been established for this project. Fulfillment of the Disadvantaged Business Enterprise requirement is based on documented completion of the Good Faith Effort Requirements, not level of Disadvantaged Business Enterprise participation proposed/achieved.

Annual DBE Utilization Reporting

In order to fulfill federal reporting requirements, the selected prime contractor and all subcontractors must, using Form UR-334 Disadvantaged Business Enterprise (DBE) Utilization (Page C-27 instructions on Page C-28), report to Inverness Public Utility District on an annual

basis, their utilization of Disadvantaged Business Enterprise subcontractor/supplier/vendors. Inverness Public Utility District will compile all Utilization reports from prime contractor(s) and sub-contractor(s) into one report and submit to State Water Resources Control Board by October 10 of each year until the last claim is submitted.

REGISTRATION WITH THE DEPARTMENT OF INDUSTRIAL RELATIONS

Pursuant to Section 1771.1(a) of the Labor Code of the State of California, a 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, as defined in Chapter 1 (Public Works) of Part 7 (Public Works and Public Agencies) of Division 2 (Employment Regulation and Supervision) of the Labor Code, unless currently registered and qualified to perform public work pursuant to Section 1725.5. It is not a violation of Section 1771.1(a) for an unregistered contractor to submit a bid that is authorized by Section 7029.1 of the Business and Professions Code or by Section 10164 or 20103.5 of the Public Contract code, provided the contractor is registered to perform public work pursuant to Section 1725.5 at the time the contract is awarded.

WAGE RATES

Notice is hereby given that, pursuant to Section 1773 of the Labor Code of the State of California, the Owner has obtained from the Director of the Department of Industrial Relations the general prevailing rate of per diem wages and the general prevailing rate for holidays and overtime work for each craft, classification, or type of worker required to execute the Contract. A copy of the prevailing rate of per diem wages are on file in the principal office of the Owner, to which reference is hereby made and which are available to any interested party upon request, and a copy thereof shall be posted at each job site. Pursuant to Sections 1720 et seq. and 1770 et seq., of the Labor Code of the State of California, the successful bidder shall pay not less than the prevailing rate of per diem wages.

MINIMUM WAGES

In accordance with Section 1775 of the California Labor Code, the Contractor and any subcontractors shall as a penalty to the State or political subdivision on whose behalf a Contract is made or awarded, forfeit not more than fifty dollars (\$50.00) for each calendar day or portion thereof, for each worker paid less than the stipulated prevailing rate for any public work done under the Contract by the Contractor or by any Subcontractor under the Contract. Reference is made to Section 1775 of the Labor Code with respect to instances where the Contractor may be liable for a subcontractor's failure to pay prevailing wages.

DAVIS BACON ACT REQUIREMENTS

In regards to the Davis Bacon Act, the wage determination will be the current wage determination 10 days prior to the date the bids are opened.

(a) This project is being carried out in whole or in part with assistance made available by the DWSRF, and which is subject to the labor standards provisions of any of the acts listed in § 5.1 of the Davis Bacon Act or the Safe Drinking Water Act, Section 1452(a)(5), the following clauses:

(1) Minimum wages.

(i) All laborers and mechanics employed or working upon the site of the work will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3)), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics. Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph (a)(1)(iv) of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in § 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided that the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under paragraph (1)(ii) of this section) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible place where it can be easily seen by the workers. Recipients may obtain wage determinations from the U.S. Department of Labor's web site, www.dol.gov.

(ii)(A) The Owner, on behalf of EPA, shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The State award official shall approve a request for an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

- (1) The work to be performed by the classification requested is not performed by a classification in the wage determination; and
- (2) The classification is utilized in the area by the construction industry; and

- (3) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.
- (B) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the Owner agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), documentation of the action taken and the request, including the local wage determination shall be sent by the Owner to the State award official. The State award official will transmit the request, to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210 and to the EPA DB Regional Coordinator concurrently. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification request within 30 days of receipt and so advise the State award official or will notify the State award official within the 30-day period that additional time is necessary.
- (C) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the Owner do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the award official shall refer the request and the local wage determination, including the views of all interested parties and the recommendation of the State award official, to the Administrator for determination. The request shall be sent to the EPA DB Regional Coordinator concurrently. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt of the request and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.
- (D) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs (1)(ii)(B) or (C) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.
- (iii) Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.
- (iv) If the contractor does not make payments to a trustee or other third person, the Contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

- (2) Withholding. The Owner, shall upon written request of the EPA Award Official or an authorized representative of the Department of Labor, withhold or cause to be withheld from the contractor under this contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work, all or part of the wages required by the contract, the (Agency) may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.
- (3) Payrolls and basic records.
- (i) Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1(b)(2)(B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1(b)(2)(B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.
- (ii) (A) The contractor shall submit weekly, for each week in which any contract work is performed, a copy of all payrolls to the Owner, that is, the entity that receives the sub-grant or loan from the State capitalization grant recipient. Such documentation shall be available on request of the State recipient or EPA. As to each payroll copy received, the Recipient shall provide written confirmation in a form satisfactory to the State indicating whether or not the project is in compliance with the requirements of 29 CFR 5.5(a)(1) based on the most recent payroll copies for the specified week. The payrolls shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i), except that full social security numbers and home

addresses shall not be included on the weekly payrolls. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g., the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at <http://www.dol.gov/whd/forms/wh347instr.htm> or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to the Recipient(s) for transmission to the State or if requested by EPA, the State, the contractor, or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this section for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to the Recipient(s).

- (B) Each payroll submitted shall be accompanied by a “Statement of Compliance,” signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:
- (1) That the payroll for the payroll period contains the information required to be provided under § 5.5 (a)(3)(ii) of Regulations, 29 CFR part 5, the appropriate information is being maintained under § 5.5 (a)(3)(i) of Regulations, 29 CFR part 5, and that such information is correct and complete;
 - (2) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3;
 - (3) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.
- (C) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the “Statement of Compliance” required by paragraph (3)(ii)(B) of this section.

- (D) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.
- (iii) The contractor or subcontractor shall make the records required under paragraph (3)(i) of this section available for inspection, copying, or transcription by authorized representatives of the State, EPA or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the Federal agency or State may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.
- (4) Apprentices and trainees--
- (i) Apprentices. Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice. The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable

apprentice classification, fringes shall be paid in accordance with that determination. In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

- (ii) Trainees. Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration. The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.
 - (iii) Equal employment opportunity. The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended and 29 CFR part 30.
- (5) Compliance with Copeland Act requirements. The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.
 - (6) Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses contained in 29 CFR 5.5(a)(1) through (10) and such other clauses as the EPA determines may be appropriate, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the

compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

- (7) Contract termination; debarment. A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.
- (8) Compliance with Davis-Bacon and Related Act requirements. All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 3, and 5 are herein incorporated by reference in this contract.
- (9) Disputes concerning labor standards. Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and Recipient(s), State, EPA, the U.S. Department of Labor, or the employees or their representatives.
- (10) Certification of eligibility.
 - (i) By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).
 - (ii) No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).
 - (iii) The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001.

ADDITIONAL DAVIS-BACON ACT REQUIREMENTS

1. Overtime requirements. No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.
2. (Violation; liability for unpaid wages; liquidated damages. In the event of any violation of the clause set forth in paragraph (11) of this section the contractor and any subcontractor responsible therefore shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with

respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (11) of this section, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph (11) of this section.

3. Withholding for unpaid wages and liquidated damages. The Recipient, upon written request of the EPA Award Official or an authorized representative of the Department of Labor, shall withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (12) of this section.
4. Subcontracts. The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraph (11) through (14) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (11) through (14) of this section.
5. The contractor or subcontractor shall maintain payrolls and basic payroll records during the course of the work and shall preserve them for a period of three years from the completion of the contract for all laborers and mechanics, including guards and watchmen, working on the contract. Such records shall contain the name and address of each such employee, social security number, correct classifications, hourly rates of wages paid, daily and weekly number of hours worked, deductions made, and actual wages paid. The records to be maintained under this paragraph shall be made available by the contractor or subcontractor for inspection, copying, or transcription by authorized representatives of the USEPA, the Department of Labor, and the State Water Board, and the contractor or subcontractor will permit such representatives to interview employees during working hours on the job.

DAVIS-BACON COMPLIANCE VERIFICATION

- (a) The Owner shall periodically interview a sufficient number of employees entitled to DB prevailing wages (covered employees) to verify that contractors or subcontractors are paying the appropriate wage rates. As provided in 29 CFR 5.6(a)(3), all interviews must be conducted in confidence. The Owner must use Standard Form 1445 (SF 1445) or equivalent documentation to memorialize the interviews. Copies of the SF 1445 are available from EPA on request.
- (b) The Owner shall establish and follow an interview schedule based on its assessment of the risks of noncompliance with DB posed by contractors or subcontractors and the duration of the contract or subcontract. Owners must conduct more frequent interviews if the initial interviews or other information indicated that there is a risk that the contractor

or subcontractor is not complying with DB. Owners shall immediately conduct interviews in response to an alleged violation of the prevailing wage requirements. All interviews shall be conducted in confidence."

- (c) The Owner shall periodically conduct spot checks of a representative sample of weekly payroll data to verify that contractors or subcontractors are paying the appropriate wage rates. The Owner shall establish and follow a spot check schedule based on its assessment of the risks of noncompliance with DB posed by contractors or subcontractors and the duration of the contract or subcontract. At a minimum, if practicable, the Owner should spot check payroll data within two weeks of each contractor or subcontractor's submission of its initial payroll data and two weeks prior to the completion date the contract or subcontract. Owners must conduct more frequent spot checks if the initial spot check or other information indicates that there is a risk that the contractor or subcontractor is not complying with DB. In addition, during the examinations the Owner shall verify evidence of fringe benefit plans and payments there under by contractors and subcontractors who claim credit for fringe benefit contributions.
- (d) The Owner shall periodically review contractors and subcontractor's use of apprentices and trainees to verify registration and certification with respect to apprenticeship and training programs approved by either the U.S Department of Labor or a state, as appropriate, and that contractors and subcontractors are not using disproportionate numbers of, laborers, trainees and apprentices. These reviews shall be conducted in accordance with the schedules for spot checks and interviews described in Item (b) and (c) above.
- (e) Owners must immediately report potential violations of the DB prevailing wage requirements to the EPA DB contact listed above and to the appropriate DOL Wage and Hour District Office listed at <http://www.dol.gov/whd/america2.htm>.

UNAUTHORIZED OVERTIME WORK

In accordance with Section 1813 of the California Labor Code, the Contractor shall, as a penalty to the Owner, forfeit twenty-five dollars (\$25.00) for each worker employed in the execution of the Contract by the Contractor or by any Subcontractor for each calendar day during which said worker is required or permitted to work more than eight hours or for each calendar week in which the worker is required or permitted to work more than forty hours in violation of Sections 1810-1815 of the California Labor Code. Eight hours constitutes a legal days work.

WORKERS COMPENSATION

As required by Section 1860 of the California Labor Code and in accordance with the provisions of Section 3700 of the Labor Code, Contractor will be required to secure worker's compensation coverage for its employees.

In accordance with Section 1861 of the California Labor Code, the Contractor shall furnish the Owner a notarized statement as follows: "I am aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for worker's compensation

or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this Contract.”

APPRENTICESHIP REQUIREMENTS

Contractor agrees to comply, and to require any subcontractors to comply, with Sections 1777.5, 1777.6 and 1777.7 of the California Labor Code relating to the employment of apprentices. The responsibility for compliance with these provisions is fixed with the prime Contractor for all apprenticeship occupations. Under these sections of the law, Contractors and Subcontractors must employ apprentices in apprenticeship occupations, where journeymen in the craft are employed on the public work, in a ratio of not less than one hour of apprentice labor for every five hours of labor performed by a journeymen (unless an exemption is granted in accordance with Section 1777.5) and Contractors and Subcontractors shall not discriminate among otherwise qualified employees as indentured apprentices on any public work solely on the ground of race, religious creed, color, national origin, ancestry, sex or age, except as provided in Section 3077 of the Labor Code. Only apprentices, as defined in Section 3077, who are in training under apprenticeship standards and who have signed written apprentice agreements will be employed on public works in apprenticeship occupations.

PAYROLL RECORDS

Contractor shall comply, and require any subcontractors to comply, with Labor Code Section 1776 relating to certified copies of payroll records including the maintenance of these records, their certification and their availability for inspection.

AUTHORIZED SIGNATURES

The contract documents shall be executed by authorized personnel. In the case of a corporation, the contract documents shall be signed by the President or Vice President and attested to by a Secretary/Assistant Secretary; other person(s) may execute these documents if authorized to do so by corporate resolution. Only general partners may sign on behalf of a general or limited partnership unless otherwise provided in the partnership agreement or other authorizing document.

STATUTORY REQUIREMENTS

No official of the Owner who is authorized in such capacity and on behalf of the Owner to negotiate, make, accept, or approve, or to take part in negotiating, making, accepting, or approving any architectural engineering, inspecting, construction or material supply contract or any subcontract in connection with the construction of the project, shall become directly or indirectly interested personally in this Contract or in any part thereof. No officer, employee, architect, attorney, engineer or inspector of or for the Owner who is authorized in such capacity and on behalf of the Owner who is in any legislative, executive, supervisory, or other similar functions in connection with the construction of the project, shall become directly or indirectly interested personally in this Contract or in any part thereof, any material supply contract, subcontract, insurance contract, or any other contract pertaining to the project.

ATTORNEYS-IN-FACT

Attorneys-in-fact who sign Bid bonds or payment bonds and performance bonds must file with each bond a certified and effective dated copy of their power of attorney.

POSTPONEMENT OF OPENING

The Owner reserves the right to postpone the date and time for opening of Proposals at any time prior to the date and time announced in the Advertisement.

AWARD OF CONTRACT

Within 90 days after the time announced for opening Proposals, the Owner will act either to accept the Proposal of the low, responsive, responsible Bidder, or to reject all Proposals. The determination of the low bid shall be based on the sum of the total item cost of each bid item. The acceptance of a Proposal will be evidenced by a Notice of Award of Contract in writing, delivered in person or by certified mail to the Bidder whose Proposal is accepted. No other act of the Owner shall constitute acceptance of a Proposal. The award of Contract shall obligate the Bidder whose Proposal is accepted to furnish a Performance Bond, Labor and Materials Bond, a Maintenance Bond and evidences of insurance and execute the agreement set forth in the Contract documents.

DISCREPANCIES IN PROPOSALS

In the event that there is more than one bid item on a proposal form, the bidder shall furnish a price for all items and failure to do so will render the proposal informal and may cause rejection. In the event that there are unit price bid items on a proposal and the amount indicated for a unit price bid item does not equal the product of the unit price and quantity, the unit price shall govern and the amount will be corrected accordingly. In the event that the unit price written in words differs from the unit price written in numbers, the unit price written in words shall govern and the amount will be corrected accordingly. In the event that there is more than one bid item on a proposal form, and the total indicated on the proposal form does not agree with the sum of the amounts bid on the individual items, the prices bid on the individual items shall govern and the total on the proposal will be corrected accordingly.

NOTICE TO PROCEED

Upon receipt, review and confirmation of satisfactory Articles of Agreement, bonds and certificates of insurance, a written Notice to Proceed will be issued by the Owner.

PRECONSTRUCTION CONFERENCE

A preconstruction conference will be held prior to any work started by the Contractor. The Contractor's job foreman and other interested parties shall attend. Work schedules, methods, and safety practices will be outlined and discussed at this time.

CHILD SUPPORT COMPLIANCE

Contractor shall fully comply with all applicable state and federal laws relating to child and family support enforcement including but not limited to, disclosure of information and compliance with earnings assignment orders, as provided in Chapter 8 (commencing with Section 5200) of Part 5 of Division 9 of the Family Code. Contractor further acknowledges that to the best of its knowledge it is fully complying with the earnings assignment orders of all employees and is providing the names of all new employees to the New Hire Registry maintained by the Employment Development Department.

WORKERS COMPENSATION

As required by Section 1860 of the California Labor Code and in accordance with the provisions of Section 3700 of the Labor Code, Contractor will be required to secure worker's compensation coverage for its employees.

In accordance with Section 1861 of the California Labor Code, the Contractor shall furnish the Owner a notarized statement as follows: "I am aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for worker's compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this Contract.



***Disadvantaged Business Enterprise (DBE) Program
DBE Subcontractor Participation Form***

A Financial Assistance Agreement Recipient must require its prime contractors to provide this form to its DBE subcontractors. This form gives a DBE¹ subcontractor² the opportunity to describe work received and/or report any concerns regarding the funded project (e.g., in areas such as termination by prime contractor, late payments, etc.). The DBE subcontractor can, as an option, complete and submit this form to the DBE Coordinator at any time during the project period of performance.

Subcontractor Name		Project Name	
Bid / Proposal No.	Assistance Agreement ID No. (if known)	Point of Contact	
Address			
Telephone No.		Email Address	
Prime Contractor Name		Issuing/Funding Entity	

Contract Item Number	Description of Work Received from the Prime Contractor Involving Construction, Services, Equipment or Supplies	Amount Received by Prime Contractor

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.

FORM 4500-2 (DBE Subcontractor Participation Form)

Please use the space below to report any concerns regarding the above funded project:

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.

Send completed Form 4500-2 to:
 Mr. Joe Ochab, DBE Coordinator
 US EPA, Region 9

 75 Hawthorne Street
 San Francisco, CA 94105

FORM 4500-2 (DBE Subcontractor Participation Form)



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.

Subcontractor Name		Project Name	
Bid / Proposal No.	Assistance Agreement ID No. (if known)	Point of Contact	
Address			
Telephone No.		Email Address	
Prime Contractor Name		Issuing/Funding Entity	

Contract Item Number	Description of Work Submitted from the Prime Contractor Involving Construction, Services, Equipment or Supplies	Price of Work Submitted to the Prime Contractor
DBE Certified By: DOT SBA Other: _____		Meets/exceeds EPA certification standards? YES NO Unknown

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.

1. FORM 4500-3 (DBE Subcontractor Performance Form)

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.



**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's² 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 Agreement ID No. (if known)	Point of Contact	
Address			
Telephone No.		Email Address	
Issuing/Funding Entity			

I have identified potential DBE certified subcontractors. YES NO
 If yes, please complete the table below. If no, please explain:

Subcontractor Name/ Company Name	Company Address / Phone / Email	Estimated Dollar Amount	Currently DBE Certified?

--Continue on back if needed--

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

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.



STATE WATER RESOURCES CONTROL BOARD – DIVISION OF FINANCIAL ASSISTANCE DISADVANTAGED BUSINESS ENTERPRISE (DBE) UTILIZATION CALIFORNIA STATE REVOLVING FUNDS (CASRF) FORM UR-334

1. Grant/Finance Agreement Number:		2. Annual Reporting Period 10/1/ through 09/30/		3. Purchase Period of Financing Agreement:	
4. Total Payments Paid to Prime Contractor or Sub-Contractors During Current Reporting Period: \$					
5. Recipient's Name and Address:			6. Recipient's Contact Person and Phone Number:		
7. List All DBE Payments Paid by Recipient or Prime Contractor During Current Reporting Period:					
Payment or Purchase Paid by Recipient or Prime Contractor	Amount Paid to Any DBE Contractor or Sub-Contractor For Service Provided to Recipient		Date of Payment (MM/DD/YY)	Procurement Type Code** (see below)	Name and Address of DBE Contractor of Sub-Contractor or Vendor
	MBE	WBE			
8. Initial here if no DBE contractors or sub-contractors paid during current reporting period:					
9. Initial here if all procurements for this contract are completed:					
10. Comments:					
11. Signature and Title of Recipient's Authorized Representative			12. Date		

Email Form UR-334 to:

DrinkingWaterSRF@waterboards.ca.gov OR CleanWaterSRF@waterboards.ca.gov

Questions may be directed to:

Barbara August, SWRCB
Barbara.August@waterboards.ca.gov
 Phone: (916) 341-6952
 Fax: (916) 327-7469

**Procurement Type:
1. Construction
2. Supplies
3. Services (includes business services; professional services; repair services and personnel services)
4. Equipment

**STATE WATER RESOURCES CONTROL BOARD - DIVISION OF FINANCIAL
ASSISTANCE DISADVANTAGED BUSINESS ENTERPRISE (DBE) UTILIZATION
CALIFORNIA STATE REVOLVING FUNDS**

INSTRUCTIONS FOR COMPLETING FORM

UR-334

- Box 1** Grant or Financing Agreement Number.
- Box 2** Annual reporting period.
- Box 3** Enter the dates between which you made procurements under this financing agreement or grant.
- Box 4** Enter the total amount of payments paid to the contractor or sub-contractors during this reporting period.
- Box 5** Enter Recipient's Name and Address.
- Box 6** Enter Recipient's Contact Name and Phone Number.
- Box 7** Enter details for the **DBE purchases only** and be sure to limit them to the current period.
1) Use either an "R" or a "C" to represent "Recipient" or "Contractor." 2) Enter a dollar total for DBE and total the two columns at the bottom of the section. 3) Provide the payment date. 4) Enter a product type choice from those at the bottom of the page. 5) List the vendor name and address in the right-hand column
- Box 8** Initial here if no DBE contractors or sub-contractors were paid during this reporting period.
- Box 9** Initial this box only if all purchases under this financing agreement or grant have been completed during this reporting period or a previous period. If you initial this box, we will no longer send you a survey.
- Box 10** This box is for explanatory information or questions.
- Box 11** Provide an authorized representative signature.
- Box 12** Enter the date form completed.

NOTICE OF AWARD

TO: _____

PROJECT DESCRIPTION: TENNEY TANK SITE WATER TANK REPLACEMENTS
INVERNESS PUBLIC UTILITY DISTRICT

The Owner represented by the undersigned has considered the Proposal submitted by you for the above described work. It appearing that it is to the best interest of the Owner to accept your Proposal in the amount of _____ (\$ _____), you are hereby notified that your Proposal has been accepted.

You are required to execute the formal contract with the Owner and to furnish the required insurance certificates within fourteen (14) calendar days after the mailing date of this Notice to you.

To expedite the completion of the Contract documents your attention is directed to Section F-2 of the Specifications which should be called to the attention of your underwriter in preparing the insurance certificates.

Dated this _____ day of _____, 2021.

INVERNESS PUBLIC UTILITY DISTRICT

By _____

Title _____

ACCEPTANCE OF NOTICE

Receipt of the above Notice of Award is hereby acknowledged

this _____ day of _____, 2021.

CONTRACTOR

By _____

Title _____

This page intentionally left blank.

NOTICE TO PROCEED

TO: _____

DATE: _____

PROJECT: TENNEY TANK SITE WATER TANK REPLACEMENTS

You are hereby notified to commence work in accordance with the Agreement dated _____ on or before _____, and you are to complete the WORK in 220 calendar days. The completion date of the WORK is therefore _____, 2021.

INVERNESS PUBLIC UTILITY DISTRICT

By _____

Title _____

ACCEPTANCE OF NOTICE TO PROCEED

Receipt of the above NOTICE TO PROCEED is hereby acknowledged

this _____ day of _____, 2021.

By _____

Title _____

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CHANGE ORDER

CONTRACTOR NAME & ADDRESS:

NAME OF CONTRACT: TENNEY TANK SITE WATER TANK
REPLACEMENTS

CONTRACT CHANGE ORDER NUMBER: _____

You are hereby authorized to make the following described changed from plans and specifications or to do the following described work not included in plans and specifications.

This contract change order shall constitute full compensation for the work described herein and no additional claim shall be made for field or office overhead, administrative charges, delays, productivity losses, or any other reason in connection with the work covered by this change order.

I, the undersigned contractor, having given careful consideration to the proposed change, hereby agree, if this proposal is approved, that I will provide all labor, materials, tools, and equipment, except as may be otherwise noted above, and perform all services necessary for the work above specified and will accept as full payment therefore the prices shown above.

Total cost of change not to exceed _____.

By reason of this proposed change, ____ calendar day(s) extension of time will be allowed.

Accepted by:

Contractor Date

Approved by:

Inverness Public Utility District

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SECTION "D"

PROPOSAL

TENNEY TANK SITE WATER TANK REPLACEMENTS
INVERNESS PUBLIC UTILITY DISTRICT

The undersigned, as Bidder, declares that he has thoroughly examined all the Contract Documents herein contained, and he proposes and agrees, if this Proposal is accepted, that he will contract with Inverness Public Utility District in the form of the copy of the Articles of Agreement herein contained and deposited in the offices of the Owner to provide all the necessary machinery, tools, apparatus and other means of construction to: furnish all materials; provide superintendence, overhead expenses and all labor and expenses of whatever nature necessary; complete the Tenney Tank Site Water Tank Replacements project, in conformance with the Drawings, these Specifications, and other contract provisions herein or reasonably implied thereby or as necessary to complete the work in the manner and within the time named herein and according to the requirements and to the reasonable satisfaction of the Owner; pay all charges of freight, transportation and hauling; to indemnify the Owner against any loss or damage arising from any act of the undersigned as Contractor; and take in full payment therefor the following sums, to wit:

Item No.	Description	Est. Quantity	Unit	Unit Price	Total Item Price
1	Demolition, Complete as Specified	1	LS		
2	Site Development, Complete as Specified	1	LS		
3	Over Excavation, Complete as Specified	20	CY		
4	Tank Foundation Concrete, Complete as Specified	57	CY		
5	Tank Foundation Reinforcement Steel, Complete as Specified	3,800	LBS		
6	Thermoset Powder Coated Bolted Steel Tank 1, Complete as Specified	1	LS		
7	Thermoset Powder Coated Bolted Steel Tank 2, Complete as Specified	1	LS		
8	Piping and Appurtenances, Complete as Specified	1	LS		
9	Shed, Complete as Specified	1	LS		
10	Underground Electrical Conduits, Complete as Specified	1	LS		
TOTAL BASE BID (ITEMS 1-10)					
A1	Passive Cathodic Protection System, Complete as Specified	1	LS		
TOTAL BASE BID (ITEMS 1-10) PLUS ADDITIVE A1					

Basis of Contract Award shall be the total of Bid Items 1 through 10.

I acknowledge I have received Addendum No. _____, signed: _____

I acknowledge I have received Addendum No. _____, signed: _____

I acknowledge I have received Addendum No. _____, signed: _____

We, the undersigned, agree if this Proposal is accepted by the Owner and if a Contract for the performance of the work is entered into by and between the Owner and the undersigned, to so plan the work and to prosecute it with such diligence that the work, and all of the work, shall be completed in the time required by the Contract Documents.

We, the undersigned, further agree, if this Proposal shall be accepted by the Owner, to sign the Articles of Agreement and to furnish the required Bonds with satisfactory Surety or Sureties within ten (10) calendar days from date of mailing of written notice of award from the Owner.

Accompanying this Bid is a Bid security (Bid Bond, certified check or cashier's check) for an amount equal to at least ten percent (10%) of the total amount of the Proposal.

WITNESS OUR HANDS this _____ day of _____, 2021.

SIGNATURE OF BIDDER OR BIDDERS, WITH BUSINESS ADDRESS:

The undersigned and his Subcontractors are licensed in accordance with the laws of the State of California and hold the necessary licenses to perform all work required by the Contract Documents.

License No.: _____ License Class: _____ DIR Registration No. : _____

Individual Contractor: Name: _____

Address: _____

Signature: _____

Partnership: Name: _____

Business Address: _____

By: _____

Other Partners: _____

Corporation: Name: _____

Business Address _____

By: _____

Title: _____

Organized under the laws of the State of _____.

LIST OF PROPOSED SUBCONTRACTORS

The Bidder shall here give a list of proposed subcontractors. The information presented below must embrace the names and addresses of all subcontractors and a description of the work to be performed by each. Attach additional sheets if necessary.

_____ Subcontractor	_____ Description of Work
_____ Address	_____ DIR Registration Number
_____ License Number	
_____ Subcontractor	_____ Description of Work
_____ Address	_____ DIR Registration Number
_____ License Number	
_____ Subcontractor	_____ Description of Work
_____ Address	_____ DIR Registration Number
_____ License Number	
_____ Subcontractor	_____ Description of Work
_____ Address	_____ DIR Registration Number
_____ License Number	

STATEMENT OF EXPERIENCE

List Jobs performed in the last 5 years that are representative of your firm's qualifications to perform the Work required by the Contract Documents. Start with the most recent jobs. Be specific when listing "Type of Work Performed." Provide at least three jobs and references.

Date of Job	Start:	Complete:	Start:	Complete:
Project Name				
Job Location:				
Type of Work Performed:				
Reference Client or Owner Name and Address				
Reference Phone #				

Date of Job	Start:	Complete:	Start:	Complete:
Project Name				
Job Location:				
Type of Work Performed:				
Reference Client or Owner Name and Address				
Reference Phone #				

BIDDER'S CHECK LIST

Did You:

- _____ Include with your bid properly completed, accurate copies of the following documents in the following order using the forms included in the bid package:
- _____ Bidder's check list (Page D-6)?
- _____ Completed and Executed Proposal that states the bid as intended (Pages D-1 through D-5)?
- _____ Executed bid bond?
- _____ Bidders List as required by DBE Requirements (See page C-6)?
- _____ Certification Regarding Lobbying (Page C-15)?
- _____ Signed and notarized non-collusion affidavit (Page D-7)?
- _____ DBE "Good Faith Efforts". To be submitted with bid prior to bid opening or within 5 working days following bid opening?
- _____ Submitted the complete bid package, including the completed documents in the checklist above?
- _____ Arrange to have the sealed bid delivered to the offices of Brelje and Race Consulting Engineers at 475 Aviation Blvd., Suite 120, Santa Rosa, California, 95403, on or before the time specified for bid opening in the notice inviting bids?

NONCOLLUSION AFFIDAVIT

TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID

State of California

County of _____

_____ ; being first duly sworn, deposes and says that he or she is

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

By _____

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SECTION "E"

ARTICLES OF AGREEMENT

TENNEY TANK SITE WATER TANK REPLACEMENTS
INVERNESS PUBLIC UTILITY DISTRICT

THIS AGREEMENT, made and entered into as of this ____day of _____, 2021, by and between Inverness Public Utility District ("Owner"), and _____ ("Contractor").

WITNESSETH:

THAT WHEREAS, the Owner has invited sealed proposals for the construction of TENNEY TANK SITE WATER TANK REPLACEMENTS in accordance with the terms of this Agreement; and

WHEREAS, the Contractor, in response to the Notice to Bidders and Invitation to Bid, has submitted to the Owner, in the manner and within the time specified, a sealed Proposal accompanied by a Proposal Guaranty for ten percent (10%) of the amount bid for construction of Tenney Tank Site Water Tank Replacements, in accordance with the terms of this Agreement; and

WHEREAS, the Owner has duly awarded to the Contractor an Agreement therefor for the sum or sums named in the Proposal.

NOW, THEREFORE, THE PARTIES AGREE AS FOLLOWS:

ARTICLE I, WORK TO BE DONE

That the Contractor, for himself, his heirs, executors, administrators, successors and assigns (as the case may be) covenants and agrees with the Owner under the conditions set forth in Bonds bearing date of _____, 2021, which are herein contained and made a part hereof, to furnish all necessary equipment, materials, labor, machinery and appliances and at his own risk and expense complete the construction of Tenney Tank Site Water Tank Replacements, for the Owner, complete in accordance with the terms of this Agreement, and according to such instructions as may be issued or given by the Engineer.

ARTICLE II, PARTS OF THE AGREEMENT

That the complete Agreement involves the following documents, by this reference incorporated herein, and other undertakings:

1. Notice to Bidders
2. Information for the Instructions to Bidders
3. Proposal and Proposal Guaranty
4. Articles of Agreement
5. Contract Bonds (Performance, labor and Materials, Maintenance)
6. General Specifications

- 7. Detailed Specifications
- 8. Contract Drawings

All of the documents named above are contained herein with the exception of Contract Drawings and Reference Specifications as described in Detailed Specifications.

ARTICLE III, AMOUNT TO BE PAID

That the Owner agrees to pay those certain prices stated in Section “D”, Proposal, submitted by the Contractor for the complete performance of this Agreement by the Contractor.

The Contractor hereby agrees to accept the prices as stated in the Proposal as full compensation for all materials and appliances necessary to the work; for all labor and use of tools and other implements necessary for executing the nature of the work or from the action of the elements, or from any unforeseen obstructions or difficulties which may be encountered in the prosecution of the work; for all risks of every description connected therewith; for all expenses incurred in and in consequence of the suspension or discontinuance of the work, as herein specified; for all liability and other insurance; for all fees or royalties or other expense on account of any patent or patents; for all overhead and other expenses incident to the work and expected profits; and for well and faithfully performing and completing the work and all of the work within the time specified in the Information for and Instructions to Bidders, all according to the Contract Drawings and Specifications, the details and instructions, and the requirements of the Owner thereunder.

The prices, including all transportation charges, are set forth in the Proposal.

AGREEMENT

IN WITNESS WHEREOF, this Agreement is being executed in triplicate and the Parties have caused their names to be signed by authority of their duly authorized officers this _____ day of _____, 2021.

OWNER

INVERNESS PUBLIC UTILITY DISTRICT

By _____

President

Countersigned:

By _____

Secretary

CONTRACTOR

By _____

Title _____

WORKERS COMPENSATION STATEMENT

TO BE EXECUTED BY CONTRACTOR AND SUBMITTED
WITH ARTICLES OF AGREEMENT

As required by Section 1860 of the California Labor Code and in accordance with the provisions of Section 3700 of the Labor Code, Contractor will be required to secure worker's compensation coverage for its employees.

In accordance with Section 1861 of the California Labor Code,

I, _____ of _____, state the following: I am aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for worker's compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this contract.

Signature

Date

Attach Notary Statement.

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FAITHFUL PERFORMANCE BOND

KNOW ALL MEN BY THESE PRESENTS, THAT, WHEREAS, the INVERNESS PUBLIC UTILITY DISTRICT, MARIN COUNTY, California, hereinafter designated the "Owner," has, on _____, 2021, awarded to _____, hereinafter designated as the "Principal," a contract for the construction of the Tenney Tank Site Water Tank Replacements.

WHEREAS, the Principal is required under the terms of the contract to furnish a bond for the faithful performance of the contract:

NOW, THEREFORE, WE, the Principal, and _____, as Surety, are held and firmly bound unto the Owner the penal sum of _____ dollars (\$ _____) lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that if the above bounden Principal his or its heirs, executors, administrators, successors, or assigns, shall in all things stand to and abide by, and well and truly keep and faithfully perform the covenants, conditions, and agreements in the contract and any alterations made as therein provided, on his or their part, to be kept and performed at the time and in the manner therein specified, and in all respects according to their true intent and meaning, and shall indemnify and save harmless, the Owner, its officers and agents as therein stipulated, then this obligation shall become null and void; otherwise it shall be and remain in full force and virtue and Principal and Surety, in the event suit is brought on this bond, will pay to the Owner such reasonable attorney's fees as shall be fixed by the court.

And the Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration, or addition to the terms of the contract or to the work to be performed thereunder or the specifications accompanying the same shall, in any way, affect its obligations on this bond, and it does hereby waive notice of any such change, extension of time, alteration, or addition to the terms of the contract or to the work or to the specifications. The Surety hereby waives the provisions of Sections 2819 and 2845 of the Civil Code of the State of California.

As a part of the obligation secured hereby and in addition to the amount specified therefor, there shall be included costs and reasonable expenses and fees, including reasonable attorney's fees, incurred by the Owner in successfully enforcing such obligation, all to be taxed as costs and included in any judgment rendered.

The Surety certifies that it is an admitted surety insurer as prescribed by the California Bond and Undertaking Law (commencing at Code of Civil Procedure Section 995.010).

IN WITNESS WHEREOF, the Principal and Surety have executed this instrument under their seals this _____ day of _____, 2021, the name and corporate seal of each party being hereby affixed and these presents duly signed by their authorized representatives.

Principal

(Seal)

Signature for Principal

Title

Surety

(Seal)

Signature for Surety

Title

The name and address at which the Principal may be served with notices, papers and other documents is as follows:

PAYMENT BOND

KNOW ALL MEN BY THESE PRESENTS, THAT, WHEREAS, the INVERNESS PUBLIC UTILITY DISTRICT, Marin County, California, hereinafter designated the "Owner," has, on _____, 2021, awarded to _____, hereinafter designated as the "Principal," a contract for the construction of the Tenney Tank Site Water Tank Replacements.

WHEREAS, the Principal is required to furnish a bond in connection and with the contract, providing that if the Principal, or any of his or its subcontractors, shall fail to pay for any materials, provision, or other supplies used in, upon, for, or about the performance of the work contracted to be done, or for any work or labor done thereon of any kind, the Surety of this bond will pay the same to the extent hereinafter set forth:

NOW, THEREFORE, WE, the Principal, and _____, as Surety, are held and firmly bound unto the Owner the penal sum of _____ dollars (\$ _____) lawful money of the United States, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally, firmly by these presents.

NOW, THEREFORE, if the Contractor, or a subcontractor, his or its heirs, executors, administrators, successors, or assigns, shall fail to pay (1) any of the persons named in Section 3181 of the California Civil Code, (2) amounts due under the Unemployment Insurance Code with respect to work or labor performed under the Contract, or (3) for any amounts required to be deducted, withheld, and paid over to the Employment Development Department from the wages of employees of the Contractor and his subcontractors pursuant to Section 13020 of the Unemployment Insurance Code with respect to the work and labor, then the Surety will pay the same, and also, in case suit is brought upon this bond, a reasonable attorney's fee, to be fixed by the Court.

This bond shall inure to the benefit of any and all persons entitled to file claims under Civil Code Section 3181, so as to give a right of action to those persons or their assigns in any suit brought upon this bond.

And the Surety, for value received, hereby stipulates and agrees that no change, extension of time, alteration, or addition of the terms of the contract or to the work to be performed thereunder or the specifications accompanying the same shall, in any way, release the Surety from its obligations of this bond, and it does hereby waive notice of any change, extension of time, alteration, or addition to the terms of the contract or to the work or to the specifications. The Surety hereby waives the provisions of Sections 2819 and 2845 of the Civil Code of the State of California.

The Surety certifies that it is an admitted surety insurer as prescribed by the California Bond and Undertaking Law (commencing at Code of Civil Procedure Section 995.010).

IN WITNESS WHEREOF, the Principal and Surety have executed this instrument under their seals this _____ day of _____, 2021, the name and corporate seal of each party being hereby affixed and these presents duly signed by their authorized representatives.

Principal

(Seal)

Signature for Principal

Title

Surety

(Seal)

Signature for Surety

Title

The name and address at which the Principal may be served with notices, papers and other documents is as follows:

MAINTENANCE BOND

KNOW ALL MEN BY THESE PRESENTS, THAT, WHEREAS, the INVERNESS PUBLIC UTILITY DISTRICT, Marin County, California, hereinafter designated the "Owner," has, on _____, 2021, awarded to _____ hereinafter designated as the "Principal," a contract for the construction of the Tenney Tank Site Water Tank Replacements, which contract and all of the contract documents as defined therein (designated as the "Contract") are hereby made a part hereof; and

WHEREAS, the PRINCIPAL is required under the terms of the Contract to furnish a bond for the correction of any defects due to defective materials or workmanship in the work performed under the Contract.

NOW, THEREFORE, we the PRINCIPAL and the undersigned

_____, as surety (designated "SURETY"), an admitted surety INSURER AUTHORIZED TO DO BUSINESS IN THE State of California, are held and firmly bound unto the Owner, (designated as the "OBLIGEE"), in the penal sum of _____ Dollars (\$_____), lawful money of the United States, being a sum not less than one hundred percent (100%) of the final Contract price, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, and assigns jointly and severally, firmly by these presents.

THE CONDITIONS OF THIS OBLIGATION ARE SUCH that if, during a maintenance period of one (1) year from the date of acceptance by the OBLIGEE of the contracted work, the PRINCIPAL upon receiving written notice of a need for repairs which are directly attributed to defective materials or workmanship, shall diligently take the necessary steps to correct said defects within five (5) Days for the date of said notice, then this obligation shall be null and void' otherwise it shall remain in full force and effect.

If any action shall be brought by the OBLIGEE upon this bond, a reasonable attorney's fee, to be fixed by the Court, shall be and become a part of OBLIGEE's judgement in any such action.

No right of actions shall accrue on this bond to, or for the use of, any person or corporation other than the OBLIGEE named herein or the heirs, executors, administrator or successor of the OBLIGEE.

IN WITNESS WHEREOF, the above parties have executed this instrument under their seals this _____ day of _____, 2021, the name and corporate seals of each corporate party being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

Principal

(Seal)

Signature for Principal

Title

Surety

(Seal)

Signature for Surety

Title

The name and address at which the Principal may be served with notices, papers and other documents is as follows:

SECTION "F"

GENERAL SPECIFICATIONS

TENNEY TANK SITE WATER TANK REPLACEMENTS INVERNESS PUBLIC UTILITY DISTRICT

SECTION F-1 NATURE OF CONTRACT

F1-01 CONTRACT AND CONTRACT DOCUMENTS

The Drawings, Specifications and Addenda, shall form part of the Contract and the provisions thereof shall be as binding upon the parties hereto as if they were herein fully set forth. The table of contents, titles, headings, running headlines and marginal notes contained herein and in said documents are solely to facilitate reference to various provisions of the Contract Documents and in no way affect, limit, or cast light on the interpretation of the provisions to which they refer.

F1-02 DEFINITIONS

The following terms as used in these General Conditions and throughout the Contract Documents are respectively defined as follows:

- a) "Addendum" shall mean a written or graphic instrument issued prior to the opening of Bids that clarifies, corrects, or changes the bidding or Contract Documents. The term "Addendum" shall include bulletins and all other types of written notices issued to potential bidders prior to opening of Bids.
- b) "Approved Equivalent" or "Approved Equal" shall mean an item approved by the Engineer as being acceptable as a substitute for a specified item.
- c) "Bid" shall mean "Proposal" as defined herein.
- d) "Bid Documents" shall mean the Notice to Bidders, Information for and Instructions to Bidders, Proposal (including attachments), Bid Bond, and any other forms or submittals designated to be attached to the Proposal.
- e) "Bid Price" shall mean Contractor's written price for performing a specified item of Work.
- f) "Bidder" shall mean the party or parties which have been invited to bid construction of the Project and which submit a Proposal to perform the specified Work.
- g) "Bond" shall mean the bonds obtained by Contractor in accordance with Section F-2 to guarantee Contractor's payment of others, performance under this Contract and warranty against defective materials or workmanship.
- h) "Change Order" shall mean the Contract Change Order, properly authorized and executed.

- i) “Construction Observer” shall mean one or more engineering or technical observer designated by the Owner to review and observe construction to ensure that it conforms to the design concept and quality standards expressed in the Drawings and Specifications, or reasonably inferred therefrom.
- j) “Contract” or “Agreement” shall mean the Agreement between Owner and Contractor to perform the Work specified in the Contract Documents, as expressed by the Articles of Agreement.
- k) “Contract Change Order” shall mean a formal written document issued by Owner and executed by Owner and Contractor that modifies the conditions of the Contract or authorizes additions or deletions to the Work and defines the method of compensation for such changes.
- l) “Contract Documents” shall mean collectively the Contract Drawings as defined herein, the Notice to Bidders, the Information for and Instructions to Bidders, all Addenda issued prior to the opening of Bids, the Bid (including documentation accompanying the Bid and any post-bid documentation submitted prior to the Notice of Award), the Bonds, the Articles of Agreement, the General Conditions, the Supplementary General Conditions (if any), and the Technical Specifications.
- m) “Contract Drawings” or “Drawings” shall mean and include all drawings prepared by or on behalf of the Owner, as a basis for preparation of proposals and for the performance of Work under this Contract, as specifically listed in the List and Description of Drawings herein; all drawings submitted in pursuance of the terms of this Contract by the successful Bidder with his Proposal and by the Contractor to the Owner, and all drawings submitted by the Owner to the Contractor during the progress of the Work as provided for herein.
- n) “Contract Price” shall mean the total amount of money for which the Contract is awarded.
- o) “Contractor” or words “Party of the Second Part” shall mean the person(s), firm or corporation with whom this Contract is made by the Owner.
- p) “Date of Signing of Contract” or words equivalent thereto, shall mean the date upon which this Contract, with the signature of the Contractor affixed, together with the prescribed bonds, shall be or shall have been delivered to the Owner or its duly authorized representatives.
- q) “Day” or “Days” unless herein otherwise expressly defined, shall mean a calendar day or days of twenty-four hours each.
- r) “Engineer” shall mean the Consulting Engineering Firm, Brelje & Race, the firm appointed by the Owner to design the work of construction under this contract.
- s) “Inspector” shall mean one or more engineering or technical inspector designated by the Owner to review and inspect construction to ensure that it conforms to the design

concept and quality standards expressed in the Drawings and Specifications, or reasonably inferred therefrom.

- t) "Liquidated Damages" shall mean the amount prescribed in the specifications to be paid to the Owner or to be deducted from any payments due, or to become due, to the Contractor for each calendar day's delay in completing the whole or any specified portion of the work beyond the time allowed in the specifications
- u) "Proposal" shall mean the offer or proposal of the Bidder submitted on the prescribed form setting forth the prices for the Work.
- v) "Provide" shall mean furnish, install and test.
- w) "Specifications" shall mean Contract Documents, excluding the Contract Drawings.
- x) "Subcontractor" shall mean a person, firm or corporation supplying labor and materials or only labor for work at the site of the project for, and under separate contract or Agreement with the Contractor.
- y) "Total Contract Price" shall mean the Sum of the Accepted Bid Prices, which shall constitute compensation for all work, subject to change only by the issuance of a Change Order by the Owner
- z) "Owner," or words "Party of the First Part" shall mean the Inverness Public Utility District.
- aa) "Work" or "Work on (at) the Project" shall mean Work to be performed at the location of the project, including the transportation of materials and supplies to or from the location of the project by employees of the Contractor and any Subcontractor.

F1-03 OFFICIAL COPIES OF THE CONTRACT

This Contract shall be executed and signed in quadruplicate; three copies will be filed with the Owner; and one copy will be delivered to the Contractor.

F1-04 CONTRACTOR NOT AN AGENT OF THE OWNER

The right of general review by the Owner shall not make the Contractor an agent of the Owner, and the liability of the Contractor for all damages to persons or to public or private property, arising from the Contractor's execution of the work, shall not be lessened because of such general review.

F1-05 ASSIGNMENTS

The Contractor shall not assign the whole or any part of this Contract or any monies due or to become due hereunder without written consent of the Owner. In case the Contractor assigns all or any part of any monies due or to become due under this Contract, the instrument of assignment shall contain a clause substantially to the effect that it is agreed that the right of the assignee in and to any monies due or become due to the Contractor shall be subject to prior claims of all persons, firms and corporations for services rendered or materials supplied for the performance of the work called for in this Contract.

F1-06 INSPECTION AND PAYMENTS NO WAIVER OF CONTRACT
 PROVISIONS

Neither the observation and review by the Engineer, construction observer, nor by an Inspector, nor any order, measurement, approved modification, certificate, or payment of money, nor acceptance of any part or whole of the work, nor any extension of time, nor any possession by the Owner or its agents, shall operate as a waiver of any provision of this Contract, or of any latent defect, or of any power reserved therein to the Owner or any right to damage thereunder; nor shall any breach of this Contract be held to be a waiver of any other or subsequent breach. All remedies shall be taken and construed as cumulative.

The Contractor shall be responsible for the conformity of all work to the intent and provisions of this Contract, regardless of any observations or inspections by the Engineer or Inspector, or the failure to perform such inspections.

F1-07 CONFLICTING CONDITIONS

Any provision in any of the Contract documents which may be in conflict or inconsistent with any of the paragraphs in these General Conditions shall be brought to the attention of the Engineer in writing for clarification. The Contractor shall comply with the clarification by the Engineer as part of this Contract.

SECTION F-2 BONDS AND INSURANCE

F2-01 FAITHFUL PERFORMANCE BOND

As a part of the execution of this Contract, the Contractor shall furnish a bond of a Surety authorized to transact business in California conditioned upon the faithful performance of all covenants and stipulations under this Contract. The amount of the Faithful Performance Bond shall be one hundred (100) percent of the amount payable by the terms of the Contract. The form of the Bond shall be as set forth in Section E. The Contractor is required to submit, along with the Bond, a certificate of the County Clerk or a certificate of solvency from the State Insurance Commissioner to evidence the fact that the Surety is a sufficient admitted surety insurer as prescribed by the California Bond and Undertaking Law (Code of Civil Procedure Section 995.010 et. seq.).

F2-02 LABOR AND MATERIALS BOND

As a part of the execution of this Contract, the Contractor shall furnish a bond of a Surety authorized to transact business in California conditioned upon payment in full of all persons, companies, or corporations who perform labor upon or furnish materials to be used in the work under this Contract; the bond shall inure to the benefit of all persons entitled to file claims under Section 3181 of the Civil Code of the State of California. The amount of the Labor and Materials Bond shall be one hundred percent (100%) of the amount payable by the terms of the Contract. The form of the Bond shall be as set forth in Section E. The Contractor is required to submit, along with the Bond, a certificate of the County Clerk or a certificate of solvency from the State Insurance Commissioner to evidence the fact that the Surety is a sufficient admitted surety insurer as prescribed by the California Bond and Undertaking Law (Code of Civil Procedure Section 995.010 et. seq.).

F2-03 MAINTENANCE BOND

A Maintenance Bond in the amount of one hundred percent (100%) of the Final Contract Price with a corporate surety approved by the Owner will be required. Such bond shall be provided before final payment is made to the Contractor and shall guarantee the correction of failure due to materials or workmanship provided or done by the Contractor including the repairs of any damage to other parts of the system resulting from such defects. Neither the final certificate of payment nor any provision in the Contract Documents nor partial or entire occupancy of the premises by the Owner shall constitute an acceptance of work not done in accordance with the Contract Documents or relieve the Contractor of liability in respect to any express warranties or responsibility for materials or workmanship. The Contractor shall remedy any defects in the work and pay for any damage to other work resulting therefrom. The Owner will give notice of observed defects with reasonable promptness. In the event that the Contractor should fail to make such repairs, adjustments, or other Work that may be made necessary by such defects, the Owner may do so and charge the Contractor the cost thereby incurred. The Maintenance Bond shall remain in full force and effect for a period of one (1) year after the date of final acceptance of the job of the Owner.

F2-04 SUBSTITUTION OF SURETY COMPANY

It the surety on any Bond furnished by the Contractor is declared a bankrupt or becomes insolvent or its right to do business is terminated in any state where any part of the WORK is located, the Contractor shall within 7 days thereafter substitute another Bond and surety, which must be acceptable to the Owner.

F2-05 SURETY COMPANIES

All Bonds required by the Contract Documents to be purchased and maintained by Contractor shall be obtained from surety companies that are duly licensed or authorized in the State of California to issue Bonds for the limits so required. Such surety companies shall also meet such additional requirements and qualifications as may be provided in the Supplementary General Conditions (if any).

F2-06 SURETY COMPANIES WAIVE RIGHT TO NOTIFICATION

The surety companies shall familiarize themselves with all of the conditions and provisions of this Contract, and they waive the right of special notification of any change or modification of this Contract or of extension of time or of decreased or increased work, or of the cancellation of the Contract, or of any other act of acts by the Owner or its authorized agents, under the terms of this Contract; and failure to so notify the aforesaid Surety Companies of changes shall in no way relieve the surety companies of their obligation under this Contract.

F2-07 CONTRACTOR'S AND SUBCONTRACTOR'S INSURANCE

F2-07.1 GENERAL

The Contractor shall not commence work under this Contract until Contractor has obtained all the insurance required under this paragraph and such insurance has been approved by the Owner, nor shall the Contractor allow any subcontractor to commence work on his subcontract until all insurance required of the subcontractor has been so obtained and approved.

Contractor shall procure and maintain for the duration of the contract all necessary insurance against claims for injuries to persons for damages to property which may arise from or in connection with the performance of the work hereunder by the Contractor, the Contractor's agents, representatives, employees or subcontractors.

F2-07.2 MINIMUM SCOPE OF INSURANCE

Coverage shall be at least as broad as:

- a. Insurance Services Office Commercial General Liability coverage (occurrence form CG 0001 or insurer's equivalent endorsement deemed acceptable by the Owner).
- b. Insurance Services Office form number CA 0001 (ED. 06/92) covering Automobile Liability, including code 1 (any auto) or the exact equivalent, or code 8, 9 if no owned auto.
- c. Worker's Compensation insurance.

- d. Employer's Liability insurance.
- e. Coverage shall not extend to any indemnity coverage for the active negligence of the additional insured(s) in any case where an agreement to indemnify the additional insured(s) would be invalid under Subsection (b) of Section 2782 of the Civil Code.

F2-07.3 MINIMUM LIMITS OF INSURANCE

Contractor shall maintain limits no less than:

- a. General Liability: \$2,000,000 per occurrence for bodily injury, personal injury and property damage including operations, products and completed operations. If Commercial General Liability Insurance or other form with a general aggregate liability is used, either the general aggregate limit shall apply separately to this project/location or the general aggregate limit shall be twice the required occurrence limit.
- b. Automobile Liability: \$2,000,000 per accident for bodily injury and property damage.
- c. Worker's Compensation statutory limit: no less than \$1,000,000 per accident for bodily injury or disease. If no employees are utilized, the Consultant shall sign a declaration as described in California Health and Safety Code Section 19825.
- d. Employer's Liability:
 - i. Bodily Injury by Accident - \$1,000,000 each accident
 - ii. Bodily Injury by Disease - \$1,000,000 policy limit
 - iii. Bodily Injury by Disease - \$1,000,000 each employee

F2-07.4 DEDUCTIBLES AND SELF-INSURED RETENTIONS

Any deductibles or self-insured retentions must be declared to and approved by the Owner. At the option of the Owner, either: the insurer shall reduce or eliminate such deductibles or self-insured retentions as respects the Owner, their officers, officials, employees, volunteers and consultants; or the contractor shall procure a bond guaranteeing payment of losses and related investigations, claim administration and defense expenses.

F2-07.5 OTHER INSURANCE PROVISIONS

- a. The required general liability and automobile policies are to contain, or be endorsed to contain the following provisions:
 - i. The Owner (Inverness Public Utility District), Brelje & Race Consulting Engineers, Bauer Associates, and Sol Ecology shall be named as additional insured. The additional insureds, their officers, officials, employees, and volunteers are to be covered as insured as respects: liability arising out of activities performed by or on behalf of the Contractor; products and completed operations of the Contractor; premises owned, occupied or used by the Contractor; or automobiles and equipment owned, leased hired or borrowed by the Contractor. The coverage shall contain no special limitations on the scope of protection afforded to the additional insured, their officers, officials, employees, or volunteers.

- ii. The State of California shall also be named as an additional insured. The State, its officers, agents, employees, and servants are to be covered as insured as respects: liability arising out of activities performed by or on behalf of the Contractor; products and completed operations of the Contractor; premises owned, occupied or used by the Contractor; or automobiles and equipment owned, leased hired or borrowed by the Contractor. The coverage shall contain no special limitations on the scope of protection afforded to the State, its officers, agents, employees, and servants.
- b. For any claims related to this project or the performance of the Work, the contractor's insurance coverage shall be primary insurance as respects the additional insureds. Any insurance or self-insurance maintained by the additional insureds, their officers, officials, employees or volunteers shall be in excess of the Contractor's insurance and shall not contribute with it.
- c. Any failure to comply with reporting or other provisions of the policies including breaches of warranties shall not affect coverage provided to the additional insureds.
- d. The Contractor's insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability.
- e. Each insurance policy required by this clause shall be endorsed to state that coverage shall not be suspended, voided, canceled by either party, reduced in coverage or in limits except after thirty (30) days' prior written notice by certified mail, return receipt requested, has been given to the Owner.
- f. The Worker's Compensation endorsement shall contain a Waiver of Subrogation against the Owner. The Contractor shall provide to the Owner an endorsement from the Worker's Compensation insurer, if any, agreeing to waive all rights of subrogation against the Owner for injuries to employees of the Insured resulting from work for the Owner or use of the Owner's premises or facilities.
- g. Insurance is to be placed with insurers with a current A.M. Best's rating of no less than A: VII, unless otherwise acceptable to the Owner.
- h. Before the execution of the Contract, CONTRACTOR shall furnish the Owner with original certificates and endorsements effecting coverage required by this clause. The endorsements are to be signed by a person authorized by that insurer to bind coverage on its behalf. All endorsements are to be received and approved by the Owner before work commences. The Owner reserves the right to require complete, certified copies of all required insurance policies, including endorsements affecting the coverage required by these specifications at any time

SECTION F-3 CONTRACTOR'S GENERAL DUTIES, RESPONSIBILITIES AND OBLIGATIONS

F3-01 CONTRACTOR'S LEGAL ADDRESS

Both the address given in the Proposal and the Contractor's office in the vicinity of the work are hereby designated as places to which Drawings, samples, notices, letters or other articles or communications to the Contractor may be mailed or delivered. The delivery at either of these places of any such thing from the Owner or its agents to the Contractor shall be deemed sufficient service thereof upon the Contractor, and the date of such service shall be the date of such delivery.

F3-02 CONTRACTOR'S OFFICE AT THE WORK SITE - NOT USED

F3-03 SUPERINTENDENCE BY CONTRACTOR

Within two (2) weeks after execution and delivery of the Contract, the Contractor shall deliver to the Engineer a complete list of key job personnel and a list of emergency telephone numbers.

At the site of the work, the Contractor shall employ a construction superintendent or foreman who shall have full authority to act for the Contractor. It is understood that such representative shall be acceptable to the Engineer.

Superintendent shall be onsite at all times work is being performed under this Contract (including work done by Subcontractors), and as further required by the Owner or its authorized representative, in order to attend meetings, coordinate work, receive deliveries of equipment or materials, and otherwise support the administration and progress of the work.

F3-04 CONTRACTOR'S OBLIGATIONS

The Contractor shall and will, in good workmanlike manner, do and perform all work and furnish all supplies and materials, machinery, equipment facilities and means, except as herein otherwise expressly specified, necessary or proper to perform and complete all the work required by this Contract, within the time herein specified, in accordance with the provisions of this Contract and said Specifications and in accordance with the Plans and Drawings covered by this Contract and any and all supplemental Plans and Drawings. Contractor shall furnish, erect, maintain and remove such construction plant and such temporary work as may be required. The Contractor shall observe, comply with, and be subject to all terms, conditions, requirements, and limitations of the Contract Documents.

It is understood that, except as otherwise specifically stated in the Contract Documents, the Contractor shall provide and pay for all materials, labor, tools, equipment, water, light, power, transportation, superintendence, temporary construction of every nature, and all other services and facilities of every nature whatsoever necessary to execute, complete, and deliver the work within the specified time.

F3-05 SAFETY AND HEALTH

Contractor shall assume sole and complete responsibility and comply with the latest requirements of the California Occupational Safety and Health Act and all such similar legislation.

Contractor agrees that he shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the Contractor shall defend, indemnify and hold the Owner and the Engineer harmless from any and all liability, real or alleged, in connection with the performance of work on this project, excepting for liability arising from the sole negligence of the Owner or the Engineer.

In order to protect the lives and health of his employees under the Contract, the Contractor shall comply with all pertinent provisions of the Contract Work Hours and Safety Standards Act, as amended, commonly known as the Construction Safety Act as pertains to health and safety standards; and shall maintain an accurate record of all cases of death, occupational disease, and injury requiring medical attention or causing loss of time from work, arising out of and in the course of employment on work under the Contract. All worker safety requirements shall apply to the Contractor, including the independent owner/operator, as well as to workers when working at the site of work.

The Contractor alone shall be responsible for the safety, efficiency, and adequacy of his plant, appliances and methods, and for any damage which may result from their failure or their improper construction, maintenance or operation.

F3-06 PROTECTION OF WORK AND PROPERTY

The Contractor shall at all times safely guard the Owner's property from injury or loss in connection with this contract. He shall at all times safely guard and protect his own work, and that of adjacent property, from damage. The Contractor shall replace or make good, at the Contractor's sole expense, any such damage, loss or injury unless such be caused directly by errors contained in the Contract or by the Owner, or his duly authorized representative.

All property line fences shall be protected by the Contractor, and if they are damaged or destroyed, they and any other property damaged by the Contractor, his employees or agents, shall be restored to a condition as good as when he entered upon the work.

F3-07 CONTRACTOR SHALL ASSUME RISKS

Until the completion and final acceptance by the Owner of all the work under and implied by this Contract, the work shall be under the Contractor's responsible care and charge. The Contractor shall rebuild, repair, restore and make good all damages, re-erectments, and repairs occasioned or rendered necessary by causes of any nature whatsoever, to all or any portions of the work, except as otherwise stipulated.

F3-08 CONTRACTOR'S TITLE TO MATERIAL

No materials or supplies for the work shall be purchased by the Contractor or by any subcontractor subject to any chattel mortgage or under a conditional sale contract or other agreement by which an interest is retained by the seller. The Contractor warrants that he has good title to all materials and supplies used by him in the work, free from all liens, claims or encumbrances.

F3-09 COOPERATION

The Contractor shall cooperate with all other contractors who may be performing work in behalf of the Owner and workmen who may be employed by the Owner on any work in the vicinity of the work to be done under this Contract, and he shall so conduct his operations as to interfere to the least possible extent with the work of such contractors or workmen. He shall promptly make good, at his own expense, any injury or damage that may be sustained by other contractors or employees of the Owner at his hands.

If, through acts of neglect on the part of the Contractor, any other Contractors or any Subcontractor shall suffer loss or damage on work, the Contractor agrees to settle with such other Contractor or subcontractor by agreement of arbitration if such other Contractor or subcontractor will so settle. If such other Contractor or subcontractor shall assert any claim against the Owner on account of any damage alleged to have been sustained, the Owner shall notify the Contractor, who shall indemnify, defend, and save harmless the Owner against any such claim.

F3-10 COMPLIANCE WITH LABOR LAWS AND REGULATIONS

The Contractor shall keep himself fully informed of all existing and future State and Federal Laws, County and City ordinances and Regulations which in any manner affect those engaged or employed in the work, or the materials used in the work, or which in any way affect the conduct of the work and of all such orders and decrees of bodies or tribunals having any jurisdiction or authority over the same. If any discrepancy or inconsistency is discovered in the Drawings or Specifications, or in this Contract in relation to any such law, ordinance, regulation, order or decree the Contractor shall forthwith report the same to the Engineer in writing. He shall at all times observe and comply with, and shall cause all of his agents and employees to observe and comply with, all such existing and future laws, ordinances, regulations, orders and decrees, and shall protect and indemnify the Owner and all of its officers, agents and servants against any claim or liability arising from or based upon the violation of any such law, ordinance, regulations, order or decree, whether by the Contractor himself or by his employees.

F3-11 RESPONSIBILITY OF CONTRACTOR AND INDEMNIFICATION

The Contractor shall take and assume all responsibility for the Work. The Contractor shall bear all losses and damages directly resulting to him, to the Owner, or to others on account of the performance or character of the work, unforeseen difficulties, accidents or any other causes whatsoever, arising out of the work of the Contractor under this Contract. The Contractor shall assume the defense of and indemnify and save harmless the Owner, and its officers, agents and employees, from any and all claims losses, demands, damages, costs, injury and liability of every kind, nature and description alleged to be occurring or resulting in connection with, directly or indirectly, from the performance of the Contract by the Contractor.

F3-12 PERMITS AND REGULATIONS

The Contractor shall procure and pay for all necessary permits, licenses and approvals necessary for the execution of this Contract. The Contractor shall comply with all laws, ordinances, rules, orders, and regulations relating to the performance of the work, the protection of adjacent property, and the maintenance of passageways, guard fences or other protective facilities.

F3-13 CONSTRUCTION UTILITIES

The Contractor shall be responsible for furnishing at his expense for and on behalf of his work under this Contract all necessary utilities, such as special connections to or furnishing of a water supply, telephones, power lines, fences, roads, watchmen, suitable storage places, etc.

F3-14 SUBCONTRACTING

The Contractor may, subject to the limitation set forth in Division 2, Part 1, Chapter 4 (commencing at Section 4100) of the California Public Contract Code, utilize the services of specialty subcontractors on those parts of the work which, under normal contracting practices, are performed by specialty subcontractors.

The Contractor shall be as fully responsible to the Owner for the acts and omissions of his subcontractors, and of persons either directly or indirectly employed by them, as he is for the acts and omissions of persons directly employed by him.

The Contractor shall cause appropriate provisions to be inserted in all subcontracts relative to the work to bind subcontractors to the Contractor by the terms of the general conditions and other Contract Documents insofar as applicable to the work of subcontractors and to give the Contractor the same power as regards terminating any subcontract that the Owner may exercise over the Contractor under any provision of the Contract Documents.

Nothing contained in this Contract shall create any contractual relationship between any subcontractor and the Owner.

F3-15 PATENTS

The Contractor shall hold and save the Owner and its officers, agents, servants, and employees harmless from liability of any nature or kind, including cost and expenses for, or on account of, any patented or unpatented invention, process, article, or appliance manufactured or used in the performance of the contract, including its use by the Owner, unless otherwise specifically stipulated in the contract documents.

If the Contractor uses any design, device or materials covered by letters, patent or copyright, he shall provide for such use by suitable agreement with the owner of such patented or copyrighted design, device or material. It is mutually agreed and understood that, without exception, the contract prices shall include all royalties or costs arising from the use of such design, device or materials, in any way involved in the work. The Contractor and/or his Sureties shall indemnify and save harmless the Owner from any and all claims for infringement by reason of the use of such patented or copyrighted design, device or materials or any trademark or copyright in connection

with work agreed to be performed under this contract, and shall indemnify the Owner for any cost, expense or damage which it may be obliged to pay by reason of such infringement at any time during the prosecution of the work or after completion of the work.

F3-16 DRAWINGS TO BE FURNISHED BY THE CONTRACTOR

Unless noted otherwise, within 30 days after the execution of this Contract the Contractor shall submit to the Engineer, for review five (5) sets of working drawings together with the necessary descriptive information for all equipment, material and devices to be furnished hereunder as an equal to that specified or as called for herein. The Drawings shall make clear the details of construction and operation and demonstrate fully that all materials and equipment fully comply with the intent and provisions of this Contract. Engineering calculations, seals and signatures shall be provided where required by this Contract. Should any drawings furnished by the Contractor not conform to the provisions of this Contract as interpreted by the Engineer, the Contractor shall make the revisions required and again submit them to the Engineer for final review. After final review by the Engineer, these drawings shall become a part of this Contract and the work shall be done in conformity therewith. No such work shall begin or equipment, material or devices purchased until the drawings covering it or them have been reviewed and found to be acceptable under the terms of this contract. Regardless of corrections or review given to such Drawings by the Engineer, the Contractor will nevertheless be responsible for the accuracy of such Drawings and for their conformity to the Drawings and Specifications, unless he notifies the Engineer, in writing, of any deviation at the time he furnishes such Drawing.

Refer to Section G1-10 - Submittal List for additional requirements.

F3-17 CONTRACTOR TO REPORT ERRORS OR DISCREPANCIES

If the Contractor, in the course of the work, discovers any discrepancies between the Drawings and the conditions of the ground, or any errors or omissions in the Drawings or in the layout given by stakes, points, or instructions, it shall be his duty to inform the Engineer immediately in writing and the Engineer shall promptly verify the same. Any work done after such discovery, until authorized, will be done at the Contractor's risk.

F3-18 PRESERVATION OF STAKES AND MARKS

The Contractor shall carefully preserve benchmarks, reference points, and stakes, and in case of willful or careless destruction he will be charged with the resulting expense of replacement and shall be responsible for any mistakes that may be caused by their unnecessary loss or disturbances.

F3-19 MAINTENANCE OF TRAFFIC, TRAVELED WAYS, CROSSINGS, ETC.

Throughout the performance of the work under or in connection with this Contract, the Contractor shall construct and adequately maintain suitable and safe crossings over trenches and such detours as are necessary to care for public and private traffic.

The material excavate from trenches shall be compactly deposited along the side of the trench in such manner as shall give as little inconvenience as possible to the traveling public and to adjoining property Owners.

F3-20 REPORTS, RECORDS AND DATA

The Contractor shall timely submit to the Owner such schedule of quantities and costs, progress schedules, payrolls, reports, estimates, records and other data as the Owner may request concerning work performed or to be performed under this Contract.

F3-21 INSPECTION

The Contractor shall permit the authorized representatives and agents of the Owner to inspect all work and materials.

F3-22 RIGHT OF APPEAL

The Contractor shall have the right of appeal from any decision by any Inspector to the Engineer and from the Engineer to the Owner.

F3-23 MAINTAINING TRAFFIC

The Contractor shall furnish, install and maintain at his expense all barricades, signs, lights, or other devices necessary to adequately warn of any obstructions to the traveled and pedestrian way and provide flagmen as necessary for safety of public traffic and pedestrians and to provide access to property adjacent to the work.

The Contractor shall comply with the State of California, Department of Transportation Manual of warning signs, lights, and devices for use in performance of work within the job site.

The fact that rain or other causes, either within or beyond the control of the Contractor, may force suspension or delay of the work shall in no way relieve the Contractor of his responsibility for maintaining traffic through the project and providing local access as specified herein. The Contractor shall at all times keep on the job such materials, force and equipment as may be necessary to keep roads, streets, and driveways within the project open to traffic and in good repair and shall expedite the passage of such traffic, using such force and equipment as may be necessary.

The Contractor shall be responsible for keeping the Police and/or Sheriff's Department and the Fire Department informed of obstructions to either public or private roads caused by reason of his operations.

The Contractor shall make provisions for the safe passage of pedestrians around the area of work at all times.

Full compensation for conforming to the requirements of this article shall be considered as included in the prices paid for the various contract items of work and no additional allowance will be made therefor.

F3-24 HAZARDOUS MATERIAL NOTIFICATION

The Contractor shall promptly, and before the following conditions are disturbed, notify the Owner in writing of any materials that the Contractor believes may be material that is hazardous waste as

defined by Health and Safety Code Section 25117 which is required to be moved to a Class I-III disposal site, subsurface or latent physical conditions at the site differing from those indicated, and unknown physical conditions at the site of an unusual nature, different from that ordinarily encountered and generally recognized as inherent in work of the character provided for in this contract.

The Owner shall promptly investigate the conditions, and if it finds that the conditions do materially so differ, or do involve hazardous waste, and cause a decrease or increase in the Contractor's cost of, or the time required for, performance of any part of the work shall issue a change order under the procedures described herein.

In the event that a dispute arises between the Owner and the Contractor whether the conditions materially differ, or involve hazardous waste, or cause a decrease or increase in the Contractor's cost of, or time required for, performance of any part of the work, the Contractor shall not be excused from any scheduled completion date provided for by the Contract, but shall proceed with all work to be performed under the Contract. The Contractor shall retain any and all rights provided either by contract or by law which pertain to the resolution of disputes and protests between the contracting parties.

F3-25 NONDISCRIMINATION CLAUSE

During the performance of this agreement, the Contractor and its subcontractors shall comply with California Government Code section 11135 and the implementing regulations (California Code of Regulations, title 2 section 11140 et seq.), including but not limited to, ensuring no person is unlawfully denied full and equal access to the benefits of, or unlawfully subjected to discrimination in the operation of, the Project or System on the basis of religion, color, ethnic group identification, sex, age, physical or mental disability, nor shall they discriminate unlawfully against any employee or applicant for employment because of race, religion, color, national origin, ancestry, physical disability, mental disability, medical condition, marital status, age, ethnic group identification, genetic information, sexual orientation, or sex as such terms are defined under California law.

By signing this agreement, Contractor assures Owner that it shall comply with the requirements of the Americans with Disabilities Act (ADA) of 1990, (42 U.S.C. 12101 et seq.), which prohibits discrimination on the basis of disability, as well as all applicable regulations and guidelines issued pursuant to the ADA; the Civil Rights Act of 1964, as amended, 42 U.S.C. 2000d (1998) et seq.; Section 504 of the Rehabilitation Act of 1973, as amended, 29 U.S.C. 794 (1989); Federal Water Pollution Control Act Amendments of 1972, Pub. L. No. 92-500, 86 Stat 816; and the Age Discrimination Act of 1975, as amended, 42 U.S.C. 6102 (1994); together with all applicable regulations and guidelines adopted to implement same. Said group of laws and requirements are collectively referred to in the agreement as the "anti-discrimination laws."

Contractor and its subcontractors shall not unlawfully discriminate, harass, or allow harassment against any employee or application for employment because of sex, race, color, ancestry, religious creed, national origin, sexual orientation, physical disability (including HIV and AIDS), mental disability, medical condition (cancer), age (over 40), marital status, denial of family care leave, or genetic information, gender, gender identity, gender expression or military and veteran status.

Contractor and its subcontractors shall ensure that the evaluation and treatment of employees and applicants for employment are free of such discrimination and harassment.

Contractor and its subcontractors shall comply with the provisions of the Fair Employment and Housing Act and the applicable regulations promulgated thereunder (Government Code, Section 12990, subds. (a)-(f) et seq.; California Code of Regulations, Title 2, Section 7285.0 et seq.) Such regulations are incorporated into this Agreement by reference and made a part hereof as if set forth in full.

Contractor and its subcontractors shall give written notice of their obligations under this agreement to labor organization with which they have a collective bargaining or other agreement.

Contractor agrees to collect and maintain information to show compliance with the “anti-discrimination laws” including a list of discrimination complaints, reports of any compliance reviews conducted by other agencies, and descriptions of any pending discrimination-based lawsuits.

Contractor’s signature on this agreement shall constitute a certification under penalty of perjury under the laws of the State of California that Contractor has, unless exempted, complied with the nondiscrimination program requirements of Government Code, Section 12990, and Title 2, California Code of Regulations, Section 11102.

F3-25.1 EXECUTIVE ORDER 11246

During the performance of this contract, the contractor agrees as follows:

(a) The contractor will not discriminate against any employee or applicant for employment because of race, creed, color, or national origin. The contractor will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, creed, color, or national origin. Such action shall include, but not be limited to the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The contractor agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the contracting officer setting forth the provisions of this nondiscrimination clause.

(b) The contractor will, in all solicitations or advertisements for employees placed by or on behalf of the contractor, state that all qualified applicants will receive consideration for employment without regard to race, creed, color, or national origin.

(c) The contractor will send to each labor union or representative of workers with which he has a collective bargaining agreement or other contract or understanding, a notice, to be provided by the agency contracting officer, advising the labor union or workers' representative of the contractor's commitments under Section 202 of Executive Order No. 11246 of September 24, 1965, and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

(d) The contractor will comply with all provisions of Executive Order No. 11246 of Sept. 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.

(e) The contractor will furnish all information and reports required by Executive Order No. 11246 of September 24, 1965, and by the rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the contracting agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

(f) In the event of the contractor's noncompliance with the nondiscrimination clauses of this contract or with any of such rules, regulations, or orders, this contract may be cancelled, terminated or suspended in whole or in part and the contractor may be declared ineligible for further Government contracts in accordance with procedures authorized in Executive Order No. 11246 of Sept 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order No. 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.

(g) The contractor will include the provisions of Paragraphs (a) through (g) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to Section 204 of Executive Order No. 11246 of Sept. 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as the contracting agency may direct as a means of enforcing such provisions including sanctions for noncompliance: Provided, however, That in the event the contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the contracting agency, the contractor may request the United States to enter into such litigation to protect the interests of the United States."

F3-26 DRUG-FREE WORKPLACE

By signing this agreement, Contractor hereby certifies under penalty of perjury under the laws of the State of California that Contractor will comply with the requirements of the Drug-Free Workplace Act of 1990 (Government Code Section 8350 et seq.) and will provide a drug-free workplace by taking the following actions;

(a) Publish a statement notifying employees that unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance is prohibited and specifying actions to be taken against employees for violations.

(b) Establish a Drug-Free Awareness program to inform employees about all of the following:

- (1) The dangers of drug abuse in the workplace;
- (2) The person's or organization's policy of maintaining a drug-free workplace;
- (3) Any available counseling, rehabilitation and employee assistance programs;
- (4) Penalties that may be imposed upon employees for drug abuse violations.

(c) Every employee who works on the Project:

- (1) Shall be issued a copy of Owners drug-free policy statement;
- (2) Shall agree to abide by terms of Owners statement as a condition of employment on the Project.

This agreement may be subject to suspension of payments or termination, or both, if Owner or State determines that (1) Contractor has made a false certification, or (2) Contractor has violated the certification by failing to carry out the requirements of this section.

F3-27 AUDIT AND INSPECTION OF BOOKS AND RECORDS

Upon execution of this Agreement and until 4 years following final payment, the Contractor shall be subject to the examination and audit by State or any agent thereof, and the State Auditor, with respect to all matters connected with the performance of this agreement. If any litigation, claim, negotiation, audit or other action is commenced before the expiration of said four (4) year period, all records must be retained until such actions is resolved, or until the end of said four (4) year period whichever shall later occur. All records of Contractor relating in any way to funding received by Owner from State pursuant to this agreement shall be preserved for this purpose.

During regular office hours, the State and each of the parties hereto, and their duly authorized representatives shall have the right to inspect and to make copies of any books, records, or reports of either party pertaining to this agreement or matters related hereto. Each of the parties hereto shall maintain and shall make available at all times for such inspection accurate records of all its costs, disbursements, and receipts with respect to its activities under this agreement. Failure of Contractor to comply with this provision shall be considered a substantial failure to comply with this agreement, Owner may declare Contractor in default, withhold payment, or take any other action it deems necessary to protect its interests. The provisions of the part shall be effective until expiration of the time period provided in the foregoing paragraph.

SECTION F-4 GENERAL DUTIES AND POWERS OF THE OWNER AND OF
REPRESENTATIVES THEREOF

F4-01 NO PERSONAL LIABILITY ON THE PART OF OFFICERS AND OFFICIALS
OF THE OWNER

No officers, officials or agent of the Owner, or the Engineer, or any authorized assistant of any of them, shall be personally responsible for any liability arising under this Contract.

F4-02 LAND AND RIGHTS-OF-WAY

Prior to the start of construction, the Owner shall obtain all land rights-of-way necessary for the carrying out and completion of work to be performed under this contract.

F4-03 SURVEYS

Unless otherwise expressly provided for in this Contract, the Owner will furnish to the Contractor all surveys necessary for the execution of the Work. The Contractor shall carefully preserve bench marks, reference points, and stakes, and in case of willful or careless destruction he will be charged with the resulting expense of replacement and shall be responsible for any mistake that may be caused by their unnecessary loss or disturbance.

F4-04 AUTHORITY OF THE ENGINEER

The Engineer shall observe construction for conformity to the Contract provisions; shall decide all questions relative to the true construction, meaning, and intent of the Specifications and Drawings; shall have the power to reject or condemn all work or material which does not conform to the terms of this Contract. His estimate and decision in all matters shall be a condition precedent to an appeal to the Owner, or the right of the Contractor to receive, demand, or claim any money or other compensation under this agreement and a condition precedent to any liability on the part of the Owner to the Contractor on account of this Contract.

Regardless of work observed by the Engineer, the Contractor shall nevertheless be responsible for the conformity of all work to the Drawings and Specifications.

Any objection by Contractor to a decision made by the Engineer under this contract shall be made by written protest to the Owner specifying in detail the performance, the resultant costs, the circumstances surrounding the dispute as applicable, etc., within ten (10) days from the Engineer's decision. Similarly, any request by Contractor for extra time, money or changes in work shall be directed to Owner in writing within ten (10) days from the date claim occurred, specifying in detail the circumstances justifying the request.

F4-05 DUTIES AND POWERS OF INSPECTORS

Properly authorized and accredited inspectors shall be considered to be the representatives of the Owner limited to the duties and powers entrusted to them. It will be their duty to inspect materials

and workmanship of those portions of the work to which they are assigned, either individually or collectively, under instructions of the Engineer and to report any and all deviations from the Drawings, Specifications and other Contract Provisions which may come to their notice.

Regardless of work observed by the inspectors, the Contractor shall be responsible for the conformity of all work to the intent and provisions of this Contract.

F4-06 METHOD OF WORK

The review by the Engineer of any drawing or any method of work proposed by the Contractor shall not relieve the Contractor of any of his responsibility for any errors therein and shall not be regarded as any assumption of risk or liability by the Owner or any officer or employee thereof, and the Contractor shall have no claim under this Contract on account of the failure or partial failure or inefficiency of any plan or method so approved. Such review shall be considered to mean merely that the Engineer has no objection to the Contractor using, upon his own full responsibility, the plan or method which the Contractor proposes.

Any plan or method of work suggested by the Engineer to the Contractor but not specified or required, if adopted or followed by the Contractor in whole or in part, shall be used at the risk and responsibility of the Contractor, and the Engineer and the Owner shall assume no responsibility therefor.

F4-07 SUSPENSION OF WORK

Should the Owner be prevented or enjoined from proceeding with work or from authorizing its prosecution either before or after its prosecution, by reason of any litigation, the Contractor shall not be entitled to make or assert claim for damage by reason of said delay, but time for completion of the work will be extended to such reasonable time as the Owner may determine will compensate for time lost by such delay with such determination to be set forth in writing.

F4-08 RIGHT OF THE OWNER TO TERMINATE CONTRACT

In the event that any of the provisions of this contract are violated by the Contractor, or by any of his subcontractors, the Owner may serve written notice upon the Contractor and the Surety of its intention to terminate the Contract, such notices to contain the reasons for such intention to terminate the Contract, and unless within ten (10) days after the serving of such notice upon the Contractor, such violations or delay shall cease and satisfactory arrangement or correction be made, the Contract shall be terminated, and the Surety shall have the right to take over and perform the Contract; provided, however, that if the Surety does not commence performance thereof within ten (10) days from the date of the mailing to such Surety of notice of termination, the Owner may take over the Work and prosecute the same to completion by contract or by force account for the account and at the expense of the Contractor, and the Contractor and his Surety shall be liable to the Owner for any excess cost occasioned by the Owner thereby, and in such event the Owner may take possession of and utilize in completing the work, such materials, appliances, and plant as may be on the site of the Work and necessary therefor.

Upon seven (7) days written notice to Contractor and Engineer, Owner may, without cause and without prejudice to any other right or remedy of Owner, terminate the Contract. In such case, Contractor shall be paid for (without duplication of any items):

1. completed and acceptable Work executed in accordance with the Contract Documents prior to the effective date of termination, including fair and reasonable sums for overhead and profit on such Work;
2. expenses sustained prior to the effective date of termination in performing services and furnishing labor, materials, or equipment as required by the Contract Documents in connection with uncompleted Work, plus fair and reasonable sums for overhead and profit on such expenses; and
3. other reasonable expenses directly attributable to termination, including costs incurred to prepare a termination for convenience cost proposal.

Contractor shall not be paid on account of loss of anticipated overhead, profits, or revenue, or other economic loss arising out of or resulting from such termination.

F4-09 RIGHT OF THE OWNER TO PERFORM EXTRA WORK

In case of neglect or refusal by the Contractor to perform any extra work which may be authorized by the Engineer or to make satisfactory progress in the execution of the same, the Owner may employ any person or persons to perform such work and the Contractor shall not in any way interfere with or molest the person or persons so employed.

F4-10 PORTIONS OF THE WORK MAY BE PLACED IN SERVICE

If desired by the Owner, portions of the work, as completed, may be placed in service. The Contractor shall give proper access to the work for this purpose, but such use and operations shall not constitute an acceptance of the work, and the Contractor shall be liable for defect due to faulty construction until the entire work under this Contract is finally accepted.

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SECTION F-5 SCOPE, NATURE AND INTENT OF THE SPECIFICATIONS AND DRAWINGS

F5-01 INTERPRETATION OF SPECIFICATIONS AND DRAWINGS

The Specifications and the Contract Drawings are intended to be explanatory of each other. Any work indicated in the Contract Drawings and not in the Specifications, or vice versa, is to be executed as if indicated in both.

Should it appear that the work to be done, or any of the matters relative thereto, are not sufficiently detailed or explained in these Contract Documents, including the Contract Drawings, the Contractor shall apply to the Engineer for such further explanations as may be necessary and shall conform thereto as part of this Contract, so far as may be consistent with the terms of this Contract. In the event of any doubt or question arising, respecting the true meaning of the Specifications, reference shall be made to the Owner and its decision thereon shall be final.

F5-02 PERFORMANCE IN ACCORDANCE WITH TRUE MEANING AND INTENT OF CONTRACT

The work shall be performed and completed according to the true spirit, meaning and intent of the General Specifications and the Contract Drawings.

F5-03 FIGURE DIMENSIONS TO GOVERN

All work shown on the Contract Drawings, the dimensions of which are not figures, shall be accurately followed to the scale to which the Drawings are made. Figured dimensions are to be followed, where given. Large scale and full size drawings shall be followed in preference to small scale drawings. The Contractor shall request a clarification from the Engineer where figured dimensions differ from other figured dimensions or from scaled measurements.

F5-04 EXISTING UNDERGROUND FACILITIES

The locations of existing underground facilities as shown on the Drawings are based upon field and record information obtained during the design of the project. The information may be inaccurate or incomplete. It shall be the Contractor's responsibility to notify every owner of underground facilities to field verify the locations of their facilities prior to commencing excavations.

In the event that the Contractor encounters underground facilities at locations materially different from those shown on the Drawings or indicated in the Specifications or identified in the field, he shall immediately notify the Engineer. The Engineer shall promptly investigate the conditions and if he finds that they are significantly different than the available information would suggest he will make the necessary changes to the Drawings and/or Specifications and any increase or decrease of costs resulting from the changes shall be adjusted under Extra Work.

F5-05 DATUM

The datum of which all elevations mentioned herein or shown on the Drawings is the datum of the United States Coast and Geodetic Survey, namely, mean sea level.

F5-06 LINES AND GRADES

All work done under this Contract shall be done in conformance with the Contract Drawings and as staked by the Engineer in the field. The Contractor shall keep the Engineer informed, a reasonable time in advance, of the time and places at which he wishes to do work in order that lines and grades may be furnished and necessary measurements for record and payment made with the minimum of inconvenience to the Engineer and of delay to the Contractor.

SECTION F-6 CHARACTER OF WORKMANSHIP AND MATERIALS

F6-01 INSPECTION

All work and materials shall be subject to the inspection and rejection of the Engineer.

The Engineer may assign such assistants as he may deem necessary to inspect the materials to be furnished and the work to be done under this Contract.

The Engineer shall be notified of the time and place of preparation, manufacture, or construction of all material for work or any part of the work which he may wish to inspect, and of the time and place of making the factory tests required under this Contract. Such notification shall be given a sufficient length of time in advance of the beginning of the work on such material or part, or the beginning of such test, to allow arrangements to be made for inspecting and testing or witnessing, as the case may be, if such inspection and testing or witnessing are deemed practicable by the Engineer.

If any Work is covered contrary to the written instructions of the Engineer it must, if requested by the Engineer, be uncovered for his observation and replaced at the Contractor's expense.

If the Engineer considers it necessary or advisable that covered work be inspected or tested by others, the Contractor, at the Engineer's request, will uncover, expose or otherwise make available for observation, inspection or testing as the Engineer may require, that portion of the Work in question, furnishing all necessary labor, materials, tools, and equipment. If it is found that such Work is defective, the Contractor will bear all the expenses of such uncovering, exposure, observation, inspection and testing and of satisfactory reconstruction. If, however, such Work is not found to be defective, the Contractor will be allowed an increase in the Contract Price or an extension of the Contract Time, or both, directly attributable to such uncovering, exposure, observation, inspection, testing and reconstruction and an appropriate Change Order shall be issued.

F6-02 SUBSURFACE CONDITIONS FOUND DIFFERENT

Should the Contractor encounter subsurface and/or latent conditions at the site materially differing from those shown on the Drawings or indicated in the Specifications, he shall immediately give notice to the Engineer of such conditions before they are disturbed. The Engineer will thereupon promptly investigate the conditions, and if he finds that they materially differ from those shown on the Drawings or indicated in the Specifications, he will at once make such changes in the Drawings and/or Specifications as he may find necessary, and any increase or decrease of cost resulting from such changes to be adjusted in the manner provided under Extra Work.

F6-03 OPENINGS FOR INSTALLATION OF, AND PREPARATION FOR OTHER
WORK

The Contractor's attention is directed to the fact openings must be left in structures for the installation of mechanical equipment; that certain mechanical and electrical appurtenances, and foundation anchor bolts are to be embedded in concrete; and that the plans may be incomplete.

Space and openings may or may not have been provided in the design of the structures for the installation of equipment and piping. Any additional openings, or changes in size or location, that may be necessary shall be provided by the Contractor in time to prevent unnecessary cutting of concrete or other work, and no additional payment shall be made on account of such openings.

F6-04 QUALITY OF MATERIALS AND WORKMANSHIP IN ABSENCE OF
DETAILED SPECIFICATIONS AND DRAWINGS

Whenever under this Contract it is provided that the Contractor shall furnish materials or manufactured articles or shall do work for which no detailed Specifications are set forth, the materials or manufactured articles shall be of the best grade in quality and workmanship obtainable in the market from firms of established good reputation or, if not ordinarily carried in stock, shall conform to the usual standards for first-class materials or articles of the kind required, with due consideration of the use to which they are to be put. In general, work performed shall be in full conformity and harmony with the intent to secure the best standard of construction and equipment of the work as whole or in part.

F6-05 SAMPLES AND TESTS OF MATERIALS

When requested by the Engineer, sample or test specimens of the materials to be used or offered for use in connection with the work shall be prepared at the expense of the Contractor and furnished by him in such quantities and sizes as may be required for proper examination and tests, with all carriage charges prepaid and with information as to their sources.

All samples shall be submitted before shipment and in ample time to permit the making of proper tests, analyses, or examination before the time at which it is desired to incorporate the material into the work.

No material shall be used in the work unless or until it has been approved by the Engineer. Samples will be secured and tested whenever necessary to determine the quality of the material.

F6-06 INSPECTION AND TESTING OF MATERIALS

All materials and equipment used in the construction of the project shall be subject to adequate inspection and testing in accordance with accepted standards. The laboratory or inspection agency shall be selected by the Owner. The Owner will pay for all laboratory inspection service direct, and not as a part of the contract. Materials of construction, particularly those upon which the strength and durability of the structure may depend, shall be subject to inspection and testing to establish conformance with Specifications and suitability for uses intended.

The Contractor shall provide certifications or letters of compliance from material suppliers as requested by the Engineer. Providing the certifications or letters of compliance will be at the Contractor's expense.

F6-07 "OR EQUAL" CLAUSE

Whenever a material, article or piece of equipment is identified on the Drawings or in the Specifications by reference to manufacturers' or vendors' names, trade names, catalogue numbers, etc., it is intended merely to establish a standard; and, any material, article, or equipment of other manufacturers and vendors which will perform adequately the duties imposed by the general design will be considered equally acceptable provided the material article, or equipment so proposed is, in the opinion of the Engineer, of equal substance and function. It shall not be purchased or installed by the Contractor without the Engineer's review.

F6-08 STORAGE OF MATERIALS

Materials shall be so stored as to ensure the preservation of their quality and fitness for the work. They shall be so located and disposed of that prompt and proper inspection thereof may be made.

F6-09 CORRECTION OF WORK

All work, all materials, whether incorporated in the work or not, all processes of manufacture, and all methods of construction shall be at all times and places subject to the inspection of the Engineer who shall be the final judge of the quality and suitability of the work, materials, processes of manufacture and methods of construction for the purposes for which they are used. Should they fail to meet his approval they shall be forthwith reconstructed, made good, replaced and/or corrected, as the case may be, by the Contractor at his own expense. Rejected material shall immediately be removed from the site. If, in the opinion of the Engineer, it is undesirable to replace any defective or damaged materials or to reconstruct or correct any portion of the work injured or not performed in accordance with the contract documents, the compensation to be paid to the Contractor hereunder shall be reduced by such amount as in the judgment of the Engineer shall be equitable.

F6-10 RIGHT TO RETAIN IMPERFECT WORK

If any portion of the work done or material furnished under this Contract shall prove defective and not in accordance with the Specifications and Drawings, and if the imperfection in the same shall not be of sufficient magnitude of importance to make the work dangerous or undesirable, or if the removal of such work is impracticable or will create conditions which are dangerous or undesirable, the Engineer shall have the right and authority to retain such work instead of requiring the imperfect work to be removed and reconstructed, but he shall make such deductions therefor in the payments due or to become due the Contractor as may be just and reasonable.

F6-11 FINAL GUARANTEE

The Contractor shall be held responsible for and must make good any defects, because of faulty, improper or inferior workmanship or materials, arising or discovered in any part of his work within one (1) year after the completion and acceptance of the same. The bond for maintenance furnished

by the Contractor, shall continue for such period and shall cover such defects and protect the Owner against them as indicated in Section F-2.

F6-12 WEATHER CONDITIONS

In the event of temporary suspension of work, or during inclement weather, the contractor will, and will cause his subcontractors to protect carefully his and their work and materials against damage or injury from the weather. If, in the opinion of the engineer, any work or materials shall have been damaged or injured by reason of failure on the part of the contractor or any of his subcontractors to so protect his work, such materials shall be removed and replaced at the expense of the contractor.

SECTION F-7 PROGRESS AND PROSECUTION OF WORK

F7-01 CONSTRUCTION SCHEDULE

Within two (2) weeks after execution and delivery of the contract, the Contractor shall deliver to the Engineer an estimated construction progress schedule in a form satisfactory to the Engineer, Owner, showing the proposed dates of commencement and completion of each of the various subdivisions of work required under the Contract Documents. An updated schedule shall be provided monthly, additional updates shall be provided if requested.

F7-02 TIME FOR COMPLETION AND LIQUIDATED DAMAGES

It is hereby understood and mutually agreed that time is of the essence in the performance of this Contract; and it is further mutually understood and agreed that the work embraced in this Contract shall be commenced by the date to be specified in the Notice to Proceed.

The Contractor agrees that the work shall be prosecuted regularly, diligently, and uninterruptedly at such rate of progress as will insure full completion thereof within the time specified. It is expressly understood and agreed, by and between the Contractor and the Owner, that the time for the completion of the work described herein is a reasonable time for the completion of the same, taking into consideration the average climatic range and usual industrial conditions prevailing in this locality.

If the Contractor shall neglect, fail or refuse to complete the work within the time herein specified, or any proper extension thereof granted by the Owner, then the Contractor does hereby agree, as a part consideration for the awarding of this Contract, to pay to the Owner the amount specified, not as a penalty but as liquidated damages for such breach of contract as herein set forth, for each and every calendar day that the Contractor shall be in default after the time stipulated for completing the work.

The liquidated damages amount is fixed and agreed upon by and between the Contractor and the Owner because of the impracticability and extreme difficulty of fixing and ascertaining the actual damages the Owner would in such event sustain, is agreed to be the amount of damages which the Owner would sustain, and shall be retained from time to time by the Owner from current periodical estimates.

It is further agreed that time is of the essence of each and every portion of this Contract and of the Specification wherein a definite and certain length of time is fixed for the performance of any act whatsoever; and where under the Contract an additional time is allowed for the completion of any work, the new time limit fixed by such extension shall be of the essence of this Contract. Provided that the Contractor shall not be charged with liquidated damages or any excess cost when the Owner determines that the Contractor is without fault and the Contractor's reasons for the time extension are acceptable to the Owner; provided further that the Contractor shall not be charged with liquidated damages or any excess cost when the delay in completion of the work is unavoidable.

F7-03 AVOIDABLE DELAYS

Avoidable delays in the prosecution or completion of the work shall include all delays which might have been avoided by the exercise of care, prudence, foresight and diligence on the part of the Contractor.

Delays in the prosecution of parts of the Work, which may in themselves be unavoidable but do not necessarily prevent or delay the prosecution of other parts of the work nor the completion of the whole Work within the time herein specified; reasonable loss of time resulting from the necessity of submitting plans to the Engineer for approval and from the making of surveys, measurements, and inspections, and such interruptions as may occur in the prosecution of the Work on account of the reasonable interference of other contractors employed by the Owner which do not necessarily prevent the completion of the whole work within the time herein specified, will be considered by the Owner as avoidable delays within the meaning of this Contract.

F7-04 UNAVOIDABLE DELAYS

Unavoidable delays in the prosecution or completion of the work under this Contract shall include all delays which may result, through causes beyond the control of the Contractor and which he could not have provided against by the exercise of care, prudence, foresight, and diligence. Orders issued by the Owner changing the amount of work to be done, the quantity of material to be furnished, or the manner in which the work is to be prosecuted, and unforeseen delays in the completion of the work of other contractors under contract with the Owner will be considered unavoidable delays, so far as they necessarily interfere with the Contractor's completion of the whole of the work. Delays due to adverse weather conditions will not be regarded as unavoidable delays in this sense, as the Contractor should understand that such conditions are to be expected and plan his work accordingly.

F7-05 CARELESS DESTRUCTION OF STAKES AND MARKS NO CAUSE FOR DELAY

In the event that the stakes and marks placed by the Engineer are destroyed through carelessness on the part of the Contractor, and that the destruction of these marks causes a delay in the work, the Contractor shall have no claim for damages or extension of time.

F7-06 CONTRACTOR TO SERVE NOTICE OF DELAYS

Whenever the Contractor foresees any delay in the prosecution of the work, and in any event immediately upon the occurrence of any delay which the Contractor regards as an unavoidable delay, he shall notify the Engineer in writing of the possibility of the occurrence of such delay and its cause, in order that the Engineer may take immediate steps to prevent, if possible, the occurrence or continuance of the delay, or if this cannot be done, may determine whether the delay is to be considered avoidable or unavoidable, how long it continues, and to what extent the prosecution and completion of the Work are to be delayed thereby.

After the completion of any part or the whole of the Work, the Engineer, in estimating the amount due the Contractor, will assume that any and all delays which have occurred in its prosecution and completion have been avoidable delays, except such delays as shall have been called to the

attention of the Engineer at the time of their occurrence and found by him to have been unavoidable. The Contractor will make no claim that any delay not called to the attention of the Engineer at the time of its occurrence has been an unavoidable delay.

F7-07 EXTENSION OF TIME

Should any delays occur which the Engineer may consider unavoidable, as herein defined, the Contractor shall, pursuant to his application, be allowed an extension of time, beyond the time herein set forth, proportional to said delay or delays, in which to complete this Contract; and liquidated damages for delay shall not be charged against the Contractor by the Owner during an extension of time granted because of unavoidable delay or delays.

Should an extension of time in which to complete the Contract be granted by the Owner to the Contractor because or on account of delays which were avoidable as herein defined, such as extension of time shall not relieve the Contractor from payment of liquidated damages for delay as herein provided for.

F7-08 SATURDAY, SUNDAY, HOLIDAY AND OVERTIME

Saturday, Sunday, holiday and overtime work will be allowed only if requested in writing from the Contractor with the stipulation that the Contractor shall pay for all overtime labor charges at the charge out rates for inspectors and/or resident engineers. All overtime labor charges for inspectors and/or resident engineers shall be deducted from the final payment along with any liquidated damages.

Work necessary for the proper care and protection of work already performed or in case of an emergency will be allowed without the permission of the Engineer.

F7-09 PURSUANCE OF WORK UNDER UNFAVORABLE WEATHER AND OTHER ADVERSE CONDITIONS

During unfavorable weather and other adverse conditions, the Contractor shall pursue only such portions of the work as shall not be damaged thereby. No portions of the work whose satisfactory quality or efficiency will be affected by any unfavorable conditions shall be constructed while these conditions exist, unless the Contractor shall be able to overcome them by special means or precautions which have been approved by the Engineer, and shall be performed at the sole risk of the Contractor.

F7-10 CONTRACTOR MAY STOP WORK OR TERMINATE

If, through no act or fault of Contractor, (1) the Work is suspended for more than 90 consecutive days by Owner or under an order of court or other public authority, or (2) Engineer fails to act on any Application for Payment within 30 days after it is submitted, or (3) Owner fails for 30 days to pay Contractor any sum finally determined to be due, then Contractor may, upon seven days written notice to Owner and Engineer, and provided Owner or Engineer do not remedy such suspension or failure within that time, terminate the contract and recover from Owner payment on the same terms as provided in following Section F-8.

In lieu of terminating the Contract and without prejudice to any other right or remedy, if Engineer has failed to act on an Application for Payment within 30 days after it is submitted, or Owner has failed for 30 days to pay Contractor any sum finally determined to be due, Contractor may, seven days after written notice to Owner and Engineer, stop the Work until payment is made of all such amounts due Contractor, including interest thereon. The provisions of this paragraph are not intended to preclude Contractor from submitting a Change Proposal for an adjustment in Contract Price or Contract Times or otherwise for expenses or damage directly attributable to Contractor's stopping the Work as permitted by this paragraph.

SECTION F-8 MANNER, SYSTEM AND AMOUNT OF PAYMENTS

F8-01 MONTHLY OR PROGRESS ESTIMATES AND PAYMENTS

The Contractor will submit to the Engineer a partial payment estimate filled out and signed by the Contractor covering the Work performed during the period covered by the partial payment estimate (but not more often than once a month) and supported by such data as the Engineer may reasonably require. If payment is requested on the basis of materials and equipment not incorporated in the Work but delivered and suitably stored at or near the site, the partial payment estimate shall also be accomplished by such supporting data, satisfactory to the Owner as will establish the Owner title to the material and equipment and protect his interest therein, including applicable insurance. The Engineer will, within seven (7) days after receipt of each partial payment estimate, either indicate in writing his approval of payment and present the partial payment estimate to the Owner, or return the partial payment estimate to the Contractor indicating in writing his reasons for refusing to approve payment. In the latter case, the Contractor may make the necessary corrections and re-submit the partial payment estimate. The Owner will, within ninety (90) days of presentation to it of an approved partial payment estimate, pay the Contractor a progress payment on the basis of the approved partial payment estimate. The Owner shall retain five (5%) percent of the amount of each payment until final completion and acceptance of all work covered by the Contract Documents.

Any work necessary to be performed after regular hours or on Saturdays, Sundays or Legal Holidays, shall be performed without additional expense to the Owner.

All Work covered by partial payment made shall thereupon become the sole property of the Owner but this provision shall not be construed as relieving the Contractor of the sole responsibility for the care and protection of the Work upon which payments have been made or the restoration of any damaged Work, or as a waiver of the right of the Owner to require the fulfillment of all terms of the Contract Documents.

Contractor may request in writing that it be allowed at its own expense to substitute securities for monies withheld by Owner to ensure performance under this Contract. Only securities listed in Government Code Section 16430, bank or savings and loan certificates of deposit, interest bearing demand deposits, standby letters of credit, or any other security mutually agreed to by the Contractor and the Owner, shall qualify under this section. Securities equivalent to the amount withheld shall be deposited with the Owner or with a state or federally chartered bank as the escrow agent. Upon satisfactory completion of the Contract and on written authorization by Owner, said securities shall be returned to Contractor. Contractor shall be the beneficial owner of said securities and shall receive any interest thereon.

All costs that the Owner incurs in evaluating a request by Contractor that securities be allowed to be substituted for monies withheld by Owner, and, in the event such substitution is permitted, all costs that the Owner incurs in effecting such substitutions shall be borne by Contractor.

F8-02 QUANTITIES OF ESTIMATE

Wherever the estimate quantities of work to be done and materials to be furnished on a unit price basis under this Contract are shown in any of the documents including the proposal, they are given

for use in comparing bids, and the right is expressly reserved, except as herein otherwise specifically limited, to increase or diminish them as may be deemed reason-ably necessary or desirable by the Owner to complete the work contemplated by this Contract, and such increase or diminution shall in no way violate this Contract, nor shall any such increase or diminution give cause for claims or liability for damages.

F8-03 BREAKDOWN OF LUMP SUM PRICES

Within two (2) weeks after the issuance of the Notice to Proceed, the Contractor shall furnish to the Engineer a detailed estimate giving a complete breakdown of large lump sum prices and items which include numerous subdivisions and work. This breakdown will be used as a basis for partial payments and will not be considered as fixing a basis for additions to or deductions from the contract price.

F8-04 METHOD OF MEASUREMENT

Unless specifically stated otherwise in this Contract, no extra measurement or measurements according to local custom of any kind shall be allowed in measuring the work under this Contract, but only the length, area, solid contents, number, weight, or time in standard units, as the case may be, shall be considered as specified.

Basis of payment for all items measured by the lineal unit or square unit shall be the horizontal distance as indicated on the Drawings, irrespective of vertical curves or grade.

F8-05 DELAYED PAYMENTS

Should any payment due the Contractor or any estimate be delayed, through fault of the Owner, beyond the time stipulated, such delay shall not constitute a breach of Contract or be the basis for a claim for damages, but the Owner shall pay the Contractor interest on the amount of the payment in accordance with Public Contract Code Section 20104.50.

The date of payment of any estimate shall be considered the day on which the payment is offered or mailed as evidenced by the records of the Owner. If interest shall become due on any delayed payment, the amount thereof, as determined by the Owner, shall be added to a succeeding payment. If the interest shall become due on the final payment it shall be paid on a supplementary voucher, provided, however, that the Contractor shall not be entitled to interest on any sum or sums which, by the terms of this Contract, the Owner is authorized to reserve or retain.

F8-06 NO CHARGE FOR DELAY

The Contractor shall have no claim for extra compensation for any hindrances or delays of work from any cause whatsoever during the progress thereof, although he may ask for an extension of the time agreed upon for completing the work.

F8-07 COMPENSATION TO OWNER FOR CERTAIN COSTS OF EXTENSION OF TIME

In case the work called for under this Contract is not completed within the time limit stipulated herein, the Owner shall have the right, as provided herein above, to extend the time of completion thereof. If the time limit be so extended, the Owner shall have the right to charge to the Contractor and to deduct from the final payment for the work the actual cost to the Owner of engineering, inspection, superintendence and other overhead expenses which are directly chargeable to the Contract and which accrue during the period of such extension, except that the cost of final surveys and preparation of final estimate and the costs accruing by reason of unavoidable delays shall not be included in such charges.

F8-08 FINAL ACCEPTANCE OF WORK

The Contractor shall notify the Engineer, in writing, of the completion of the Work. Final inspection and acceptance of the Work shall be made for the Owner by the Engineer. Such inspection shall be made as soon as practicable after the Contractor has notified the Engineer in writing that the Work is ready for such inspection.

F8-09 FINAL ESTIMATE AND PAYMENT

The Engineer shall, as soon as practicable after the final acceptance of the work done under this Contract, make a final estimate of the amount of work done thereunder and the value thereof.

Such final estimate shall be signed by the Engineer, and after approval by the Owner, the Owner shall pay or cause to be paid to the Contractor, in the manner provided by law, the entire sum so found to be due hereunder, after deducting therefrom all previous payments and such other lawful amounts as the terms of this Contract prescribe.

In no case will final payment be made in less than ninety (90) days after the completion of the work and its acceptance by the Owner.

F8-10 FINAL PAYMENT TO TERMINATE LIABILITY OF OWNER

The acceptance by the Contractor of the final payment, made according to the terms of this Contract, shall operate as and be a release to the Owner, and every member and agent thereof, from all claims and liabilities to the Contractor for anything done or furnished for or relating to the Work, or for any act or neglect of the Owner or any person relating to or affecting the work under this Contract, except the claim against the Owner for the remainder, if there be any, of amounts kept and retained as provided by the terms of this Contract. No payment, however, final or otherwise, shall operate to release the Contractor or his Sureties from any obligation under this contract or the Performance and Payment Bond.

F8-11 OWNER'S RIGHT TO WITHHOLD CERTAIN AMOUNTS

The Contractor agrees that he will indemnify and save the Owner harmless from all claims growing out of the lawful demands of subcontractors, laborers, workmen, mechanics, materialmen, and furnishers of machinery and parts thereof, equipment, power tools, and all supplies, including

commissary, incurred in the performance of this Contract. The Contractor shall, at the Owner's request, furnish satisfactory evidence that all obligations of the nature herein above designated have been paid, discharged, or waived. The Owner may withhold from the Contractor amounts required or permitted to be with-held by Division 4, Part 6, Title 3, Chapter 4, (commencing at Section 9350) of the California Civil Code.

F8-12 RESOLUTION OF CONSTRUCTION CLAIMS OF \$375,000 OR LESS

All claims of \$375,000 or less by the Contractor arising out of, or relating to the Contract Documents or the breach thereof except for claims which have been waived by the acceptance of final payment, as provided by Section F8-10, FINAL PAYMENT TO TERMINATE LIABILITY OF OWNER, shall be decided in accordance with Article 1.5, Chapter 1 of Part 3 of Division 2 of the Public Contract Code, then obtaining, subject to the limitations of this Section F8-12. This agreement to resolve claims and any other agreement or consent to arbitrate entered into in accordance herewith as provided in this Section will be specifically enforceable under the prevailing arbitration law of any court having jurisdiction.

All claims shall be in writing and include the documents necessary to substantiate the claim. Claims must be filed on or before the date of final payment.

For claims of less than Fifty Thousand Dollars (\$50,000), the Owner shall respond in writing to any written claim within 45 days of receipt of the claim, or may request, in writing, within 30 days of receipt of the claim, any additional documentation supporting the claim or relating to defenses or claims the Owner may have against the Contractor. For claims over fifty thousand dollars (\$50,000) the Owner shall respond in writing to all written claims within 60 days of receipt of the claim.

If the claimant disputes the Owner's written response, or the Owner fails to respond within the time prescribed, the claimant may notify the Owner of its demand for an informal meeting and conference for settlement of the issues in dispute. Upon demand, the Owner shall schedule a meeting and conference within 30 days for settlement of the dispute.

If following the meeting and conference the claim or any portion remains in dispute, the claimant may file a claim pursuant to Chapter 1 (commencing with Section 900) and Chapter 2 (commencing with Section 910) of Part 3 of Division 3.6 of Title 1 of the Government Code.

No arbitration arising out of or relating to the Contract Documents shall include by consolidation, joinder, or in any other manner, the Design Engineer, its agents, employees, or consultants, except by written consent of the Design Engineer. No arbitration arising out of or relating to the Contract Documents shall include by consolidation, joinder, or in any other manner any other person or entity who is not a party to this Agreement unless:

The inclusion of such other person or entity is necessary if complete relief is to be afforded among those who are already parties to the arbitration;

Such other person or entity is substantially involved in a question of law or fact which is to those who are already parties to the arbitration and which will arise in such proceedings; and

The written consent of the other person or entity sought to be included and of Owner and Contractor has been obtained for such inclusion, which consent shall make specific reference to this paragraph; but no such consent shall constitute consent to arbitration of any dispute not specifically described in such consent or to arbitration with any party not specifically identified in such consent.

F8-13 CLAIMS

The Owner shall have full authority to compromise or otherwise settle any claim relating to this Contract.

The Owner shall provide Contractor timely notification of the receipt of any third-party claim, relating to this Contract. The Owner shall be entitled to recover its reasonable costs incurred in providing this notification.

F8-14 RETENTION PROCEEDS; WITHHOLDING; DISBURSEMENT

The provisions of Public Contract Code Section 7107, related to the withholding and disbursement of retention proceeds is applicable to this contract.

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SECTION F-9 EXTRA WORK

F9-01 EXTRA WORK OR WORK OMITTED

Whenever corrections, alterations, or modifications of the work under this Contract are ordered by the Engineer, such added work shall be known as Extra Work, and when such corrections, alterations, or modifications decrease the amount of work to be done, such subtracted work shall be known as Work Omitted.

When the Contractor considers that any changes ordered involve Extra Work he shall immediately notify the Engineer in writing and subsequently keep him informed as to when and where alleged Extra Work is to be performed and shall make claim for compensation therefore each month not later than the first day of the month following that in which the work claimed to be Extra Work was performed and he shall submit a daily complete statement of materials used and expenses incurred on account of Extra Work performed, showing allocation of all materials and expenses.

All such claims shall state the date of the Engineer's written order and the date of approval by the Owner authorizing the work on account of which claim is made.

If Extra Work orders are given in accordance with the provisions of this Contract, such work shall be considered a part hereof and subject to each and all of its terms and requirements.

No order for Extra Work, at any time or place, shall in any manner or to any extent relieve the Contractor of any of his obligations under the Contract.

F9-02 COMPENSATION FOR EXTRA WORK OR WORK OMITTED

No changes in the work covered by the approved contract documents shall be made without having prior written approval of the Owner. Charges or credits for the work covered by the approved change shall be determined by one or more, or a combination of the following methods:

1. Unit bid prices previously approved.
2. An agreed lump sum.
3. The actual cost of:
 - a. Labor, including foremen.
 - b. Materials entering permanently into the work.
 - c. The ownership or rental cost of construction plant and equipment during the time of use on the extra work.
 - d. Power and consumable supplies for the operation of power equipment.
 - e. Insurance.
 - f. Social Security and old age and unemployment contributions.
 - g. Subcontractor(s) –subcontractor's actual cost of Items a. through f. plus fixed fee not to exceed fifteen percent (15%) and actual cost of Item g. plus fixed fee not to exceed five percent (5%).

To the cost under 3.a. through 3.f. above, there shall be added a fixed fee, to be agreed upon but not to exceed fifteen percent (15%), of the cost of the work, and to the cost under 3.g. above there

shall be added a fixed fee, to be agreed upon but not to exceed five percent (5%), of the cost of the work. The fee shall be compensation to cover the costs of supervision, overhead, bond, profit and any other general expenses.

No claim for Extra Work or cost shall be allowed unless the same was done in pursuance of a written order of the Engineer approved by the Owner, as aforesaid, and the claim presented with the first estimate after the changed or Extra Work is done. When work is performed under the terms of subparagraph "3" above, the Contractor shall furnish satisfactory bills, payrolls, and vouchers covering all items of cost and, when requested by the Owner, give the Owner access to accounts relating thereto.

F9-04 CHANGE ORDER FORM

All changes in the amount to be paid and contract period, including changes in the amount and/or contract period as the result of extra work shall be accomplished using the form expressly provided for that purpose in Section C of this Contract.

SECTION "G"

TECHNICAL SPECIFICATIONS

TENNEY TANK SITE WATER TANK REPLACEMENTS INVERNESS PUBLIC UTILITY DISTRICT

SECTION G-1 SPECIAL PROVISIONS

G1-01 LOCATION OF THE WORK

The work to be performed under this contract is located in the County of Marin, and more specifically in the unincorporated community of Inverness, CA. The tank site is located on a District parcel accessed via a private driveway off of Trossach Street, a private street.

G1-02 WATER FOR CONSTRUCTION

Reasonable amounts of water for construction, testing, cleaning, and dust control at the project site(s) may be obtained from a hydrant designated by Owner at no cost to the Contractor. The Contractor shall provide and install a backflow preventer (certified and approved by the Owner after installation) or use a water truck or trailer with an air gap acceptable to the Owner prior to using the water. The Contractor will be responsible for trucking or pumping water as needed. Quantities of construction water shall be reported to the Owner.

G1-03 STAGING AREA

Staging area for maintenance and storage of construction equipment can be at 50 Inverness Way approximately 1 mile from the site. The contractor shall locate stationary construction equipment, such as generators and/or air compressors, as far as possible from sensitive residential property boundaries. Such equipment shall be turned off when not in use.

G1-04 NOTICES

Two weeks prior to work commencing, a sign notifying the public of the impending construction work shall be placed at a location chosen by the Owner. The sign shall indicate the start date, estimated completion date, working hours and indicate the roadway may be subject to traffic control. Prior to commencing work all notifications required by the encroachment permit shall be made.

The Contractor shall notify in writing Emergency Service Providers (e.g., County Sheriff and local fire protection district) of proposed construction schedules at least 48 hours in advance of any proposed construction activity that limits the use of the roads for emergency services.

G1-05 PROJECT SIGN

The Contractor shall furnish, install and maintain a project sign to be displayed at a mutually acceptable location near the project. The sign shall be on a four foot by eight foot by three-quarter-inch thick A-B grade exterior plywood sheet or approved material. The sign shall include the project name, District name, four color logos and wording that acknowledges the participating funding agencies. The wording below the logos shall be "Funding for this Tenney Tank

Replacement project has been provide in full or in part by the Drinking Water State Revolving Fund through and agreement with the State Water Resources Control Board . California’s Drinking Water State Revolving Fund is capitalized through a variety of funding sources, including grants from the United States Environmental Protection Agency and state bond proceeds.” The cost of the sign shall be included in the existing bid items and no additional compensation made.”

G1-06 SANITARY FACILITIES

The Owner will provide a portable toilet at the work site for workers during project construction, in compliance with requirements of applicable Federal, State and local regulations.

G1-07 EXISTING UTILITIES

There are existing buried water, overhead electrical, and both buried and overhead telecommunications utilities in the area of work. The Contractor shall do no excavation until all existing utilities have been marked in the field by the applicable entity responsible for the particular utility. Utility companies shall be notified by contacting Underground Service Alert (USA) at telephone number 811. Notification to USA shall be made at least two working days prior to the excavation start day. Underground facilities shall be located and exposed ahead of trenching to prevent damage to the facilities. If damage should occur to existing facilities, the utility company and the Owner shall be notified immediately and repairs acceptable to the Owner and utility owner be made at the Contractor’s expense. The Contractor shall be responsible for all costs related to the relocation and repair of all utilities damaged by his operations.

The locations of the existing facilities have been compiled from the best information available during design; however, the locations of the underground facilities shown on the Drawings are approximate only and should not be taken as final or all-inclusive. The Contractor is cautioned that the Drawings may be incomplete and the Contractor shall repair all damage done to existing facilities at his expense.

The right is reserved to the owners of utilities or their authorized agents to enter upon the construction area for the purpose of making such changes as are necessary for the rearrangement of their facilities or for making necessary connections or repairs to their properties. The Contractor shall cooperate with forces engaged in such work and shall conduct his operations in such a manner as to avoid any unnecessary delay or hindrance to the work being performed by such other forces. Wherever necessary the work of the Contractor shall be coordinated with the rearrangement of utility facilities, and the Contractor shall make arrangements with the owner of such facilities for the coordination of such work.

Should the Contractor desire to have any rearrangement made in any utility facility, or other improvement, for his convenience in order to facilitate his construction operations, which rearrangement is in addition to, or different from the rearrangements indicated on the Drawings or in the Special Provisions he shall make whatever arrangements are necessary with the owners of such utility or other facility for such rearrangement and bear all expenses in connection therewith.

Existing facilities shall not be intentionally disturbed and shall be supported and protected against injury and maintained in good operating condition at the expense of the Contractor for the entire

duration of the Contract. Any proposed disruption of the existing facilities shall be coordinated with the appropriate owner and the Engineer shall be notified prior to the disruption.

G1-08 CULTURAL RESOURCES

In the event that archaeological resources such as pottery, arrowheads, midden or culturally modified soil deposits are discovered at any time during grading, scraping or excavation within the project, all work shall be halted in the vicinity of the find and the State Water Board and a qualified archaeologist shall be contacted immediately to make an evaluation of the find and may consult and/or notify the appropriate tribal representative from tribes known to the archaeologist to have interests in the area. Artifacts associated with prehistoric sites include humanly modified stone, shell, bone or other cultural materials such as charcoal, ash and burned rock indicative of food procurement or processing activities. Prehistoric domestic resources include hearths, firepits, or house floor depressions whereas typical mortuary resources are represented by human skeletal remains. Historic artifacts potentially include all by-products of human land use greater than fifty (50) years of age including trash pits older than fifty (50) years of age. When contacted, the archeologist shall visit the site to determine the extent of the resources and to develop and coordinate proper protection/mitigation measures required for the discovery. The archeologist may refer the mitigation/protection plan to designated tribal representatives for review and comment. No work shall commence until a protection/mitigation plan is reviewed and approved. Mitigations may include avoidance or removal. Preservation and/or recordation shall be in accordance with California law. Archeological evaluation and mitigation shall be at the Owner's expense.

If human remains are encountered, all work must stop in the immediate vicinity of the discovered remains and the County Coroner and a qualified archaeologist must be notified immediately so that an evaluation can be performed. If the remains are deemed to be Native American, the Native American Heritage Commission must be contacted by the Coroner so that a "Most likely descendant" can be designated and the appropriate provisions of the California Government Code and California Public Resources Code will be followed.

G1-09 BIOLOGICAL RESOURCES

If construction occurs during the bird breeding season (February 15th to August 31st), preconstruction surveys for nesting birds will be conducted within the Project footprint by a qualified biologist no more than one week before work commences or if there is a break in work activities of more than a week. If no active nests are located, no further action is necessary. Should active nests be found, an appropriate buffer zone shall be established around the area to minimize disruption of breeding. The buffer zone will be determined by a qualified biologist and be based on the next location, topography, cover, species tolerance to disturbance, and the type of proposed work. No work shall occur within the buffer zone until the biologist has confirmed the young have fledged or the next has failed. Typical buffer zones are 50 feet for passerines and 300 feet for raptors. If work must occur within the buffer zone during the breeding season, a qualified biologist will monitor the next to determine if the work activities are causing stress on the breeding pair to a degree that may result in abandonment of the active nest. If work is resulting in unnecessary stress to the breeding pair, work within the buffer zone will cease immediately.

The District will retain a biologist to act as the project biologist. The District will provide for two nesting bird surveys, one at the beginning of the project and one after Tank 1 has been completed

and is ready to be connected to the system. All other nesting bird surveys required because of a break in work exceeding one week will be made by the project biologist at the Contractor's expense.

G1-10 EROSION AND SEDIMENTATION CONTROL

The Contractor shall preserve existing vegetation where possible and install erosion and sedimentation control facilities, including but not limited to silt fences, fiber rolls, and check dams to prevent sediment from entering storm drains or waterways.

G1-11 LIST OF REQUIRED SHOP DRAWING SUBMITTALS

The Contractor shall submit Shop Drawings, catalog sheets, brochures, model numbers, and dimensions in sufficient detail to identify materials and equipment for approval prior to delivery to the job site. These submittals shall include the following:

Schedule with bi-weekly updates	Safety Plan
Shoring Plans	Traffic Control Plans
Pipe (All Types)	Pipe Appurtenances (All Types)
Valves (All Types)	Fittings
Valve Boxes	Utility Boxes
Bedding Material	Backfill Material
Aggregate Base	Asphalt Concrete
Concrete, including Slurry Cement Backfill	Reinforcing Steel
Anchor bolts	Miscellaneous Metal
Bolted Steel Tank and appurtenances	Bolted Steel Tank Structural Calculations
Conduit	Paints and Coatings
Cathodic protection design	Erosion Control Materials
Cathodic protection equipment	Electrical Enclosures
Shed	

G1-12 START-UP AND TESTING

Upon completion of the work, but prior to final approval of the project, the Contractor shall completely test all tanks, cathodic protections systems and instrumentation. The Owner and the manufacturer's representatives shall be present to verify that the equipment is installed, calibrated, tested and functioning properly. It shall be the responsibility of the Contractor to notify the manufacturer's representatives of the tests and ensure their attendance.

Piping shall be tested in conformance with the requirements of Section G-6 "Pipe Installation". Water for testing will be furnished to the Contractor by the Owner from a point within the water system of the Owner's selection. The Contractor shall pump and transport the water as necessary at his expense. All equipment used to transport water for testing shall be NSF-61 certified and approved for potable use.

The cost of startup, calibration and testing shall be included in the prices for the various items of work and no additional compensation will be allowed.

G1-13 LINES AND GRADES

The Owner will provide the following layout information for the Contractor to use in constructing the improvements:

- Each tank: one set rough grade stakes, temporary bench mark and offsets to tank centerline
- Finished grade stakes for the tank site

The stakes will be provided in a maximum of three site visits and it will be the Contractor's responsibility to protect and maintain the layout information. The Contractor will be charged the cost of providing additional or replacement stakes and/or the cost of additional travel time, on a time and materials basis, beyond the included three site visits. The costs will be deducted from the prices paid for the various contract items associated therewith.

G1-14 NSF/ANSI STANDARD 61

All materials and components to be in contact with source water or potable water shall be NSF/ANSI Standard 61 certified and listed, and shall be in conformance with the California Plumbing Code and California Health and Safety Code Section 116875. If no NSF Standard 61 approved product is available, items approved by the FDA or USDA for use with food products may be submitted for a NSF Standard 61 Waiver Request that will be subject to review and possible approval by the regulatory authority State Water Resources Control Board, Division of Drinking Water.

G1-15 AMERICAN IRON AND STEEL REQUIREMENT

The Contractor acknowledges to and for the benefit of the Inverness Public Utility District ("Purchaser") and the State of California (the "State") that it understands the goods and services under this Agreement are being funded with monies made available by the Clean Water State Revolving Fund and/or Drinking Water State Revolving Fund that have statutory requirements commonly known as "American Iron and Steel;" that requires all of the iron and steel products used in the project to be produced in the United States ("American Iron and Steel Requirement") including iron and steel products provided by the Contractor pursuant to this Agreement. The Contractor hereby represents and warrants to and for the benefit of the Purchaser and the State that (a) the Contractor has reviewed and understands the American Iron and Steel Requirement, (b) all of the iron and steel products used in the project will be and/or have been produced in the United States in a manner that complies with the American Iron and Steel Requirement, unless a waiver of the requirement is approved, and (c) the Contractor will provide any further verified information, certification or assurance of compliance with this paragraph, or information necessary to support a waiver of the American Iron and Steel Requirement, as may be requested by the Purchaser or the State. Notwithstanding any other provision of this Agreement, any failure to comply with this paragraph by the Contractor shall permit the Purchaser or State to recover as damages against the Contractor any loss, expense, or cost (including without limitation attorney's fees) incurred by the Purchaser or State resulting from any such failure (including without limitation any impairment or loss of funding, whether in whole or in part, from the State or any damages owed to the State by the Purchaser). While the Contractor has no direct contractual privity with the State, as a lender to the Purchaser for the funding of its project, the Purchaser and the Contractor agree that the State is a third-party beneficiary and neither this paragraph (nor any other

provision of this Agreement necessary to give this paragraph force or effect) shall be amended or waived without the prior written consent of the State.

The following items shall meet the American Iron and Steel requirements:

Lined or unlined pipes or fittings;
Manhole Covers;
Municipal Castings (defined in more detail below);
Hydrants;
Tanks;
Flanges;
Pipe clamps and restraints;
Valves;
Structural steel (defined in more detail below);
Reinforced precast concrete; and
Construction materials

Construction materials include but are not limited to wire rod, bar, angles, concrete reinforcing bar, wire, wire cloth, wire rope and cables, tubing, framing, joists, trusses, fasteners (i.e., nuts and bolts), welding rods, decking, grating, railings, stairs, access ramps, fire escapes, ladders, wall panels, dome structures, roofing, ductwork, surface drains, cable hanging systems, manhole steps, fencing and fence tubing, guardrails, doors, and stationary screens.

Municipal castings are cast iron or steel infrastructure products that are melted and cast. They typically provide access, protection, or housing for components incorporated into utility owned drinking water, storm water, wastewater, and surface infrastructure. They are typically made of grey or ductile iron, or steel. Examples of municipal castings are:

Access Hatches; Ballast Screen; Benches (Iron or Steel); Bollards; Cast Bases; Cast Iron Hinged Hatches, Square and Rectangular; Cast Iron Riser Rings; Catch Basin Inlet; Cleanout/Monument Boxes; Construction Covers and Frames; Curb and Corner Guards; Curb Openings; Detectable Warning Plates; Downspout Shoes (Boot, Inlet); Drainage Grates, Frames and Curb Inlets; Inlets; Junction Boxes; Lampposts; Manhole Covers, Rings and Frames, Risers; Meter Boxes; Service Boxes; Steel Hinged Hatches, Square and Rectangular; Steel Riser Rings; Trash receptacles; Tree Grates; Tree Guards; Trench Grates; and Valve Boxes, Covers and Risers.”

Structural steel is rolled flanged shapes, having at least one dimension of their cross-section three inches or greater, which are used in the construction of bridges, buildings, ships, railroad rolling stock, and for numerous other constructional purposes. Such shapes are designated as wide-flange shapes, standard I-beams, channels, angles, tees and zees. Other shapes include H-piles, sheet piling, tie plates, cross ties, and those for other special purposes.

The following items (including their appurtenances necessary for their intended use and operation) are not considered construction materials and therefore excluded from the American Iron and Steel Requirements: pumps, motors, gear reducers, drives (including variable frequency drives (VFDs)), electric/pneumatic/manual accessories used to operate valves (such as electric valve actuators), mixers, gates, motorized screens (such as traveling screens), blowers/aeration equipment,

compressors, meters, sensors, controls and switches, supervisory control and data acquisition (SCADA), membrane bioreactor systems, membrane filtration systems, filters, clarifiers and clarifier mechanisms, rakes, grinders, disinfection systems, presses (including belt presses), conveyors, cranes, HVAC (excluding ductwork), water heaters, heat exchangers, generators, cabinetry and housings (such as electrical boxes/enclosures), lighting fixtures, electrical conduit, emergency life systems, metal office furniture, shelving, laboratory equipment, analytical instrumentation, and dewatering equipment.

The Contractor shall provide a certification letter for each AIS product that provides all the information listed on the following sample certification letter. The certification letter(s) shall cover all steps in the manufacturing of each component from melting through finishing and assembly.

Sample Certification Letter

Date

Company Name

Company Address

City, State Zip

Subject: American Iron and Steel Step Certification for Cobb Area County Water District's Mount Hannah Distribution System Improvement Project

I, (company representative), certify that the following products and/or materials shipped/provided to the subject project are in full compliance with the American Iron and Steel requirement as mandated in EPA's State Revolving Fund Programs.

Item, Products and/or Materials:

1. XXXX

2. XXXX

3. XXXX

Such process took place at the following location:

If any of the above compliance statements change while providing material to this project we will immediately notify the prime contractor and the engineer.

Name,

Title

SECTION G-2 EARTHWORK

G2-01 SCOPE OF WORK

Earthwork shall consist of furnishing all labor, materials, equipment, tools and incidentals and performing all operations necessary to clear, grub, strip and remove any objectionable material from the construction area; to remove existing stumps; excavate earth and rock, including over-excavation, regardless of character and subsurface condition; to excavate all materials, of whatever nature, necessary for the construction of foundations for structures and other facilities; to excavate drainage swales; to construct embankments including the placement of selected materials in connection therewith as specified; to scarify and compact existing materials beneath embankments and structures; to place backfill for structures, and other facilities; to import material as necessary to construct embankments; to remove and replace unsuitable materials; and, to prepare base material for the placement of other material thereon, all as shown on the Drawings and as specified herein.

G2-02 GEOTECHNICAL ENGINEER

Where specific reference is made to “Geotechnical Engineer” this designation shall be understood to include both him and his representative.

G2-03 GEOTECHNICAL INVESTIGATION

A geotechnical investigation was conducted for the project by Bauer Associates Geotechnical Consultants. A geotechnical report was prepared, entitled “Tenney Tank Site, Inverness, California” dated May 13, 2010. A subsequent supplemental geotechnical consultation letter was prepared dated September 29, 2020. Both documents are included by reference in these specifications. The geotechnical report and supplemental geotechnical consultation letter recommendations are included in the requirements of the improvements plans and these specifications.

G2-04 PROTECTION

Adequate protection measures shall be provided to protect workmen and passers-by at the site. In accordance with generally accepted construction practices, the Contractor shall be solely and completely responsible for working conditions at the job site, including safety of all persons and property during performance of the work. This requirement shall apply continuously and shall not be limited to normal working hours.

Any construction review of the Contractor’s performance conducted by the Geotechnical Engineer is not intended to include review of the adequacy of the Contractor’s safety measures, in, or near the construction site.

Adjacent streets shall be kept free of mud, dirt or similar nuisances resulting from earthwork operations.

Surface drainage provisions shall be made during the period of construction in a manner to avoid creating a nuisance to adjacent areas.

The site and adjacent influenced areas shall be watered as required to suppress dust nuisance. Trees not noted to be removed shall be protected.

G2-05 SEASONAL LIMITS

Fill material shall not be placed, spread or rolled during unfavorable weather conditions. When work is interrupted by heavy rains, fill operations shall not be resumed until field tests indicate that the moisture content of the subgrade and fill materials are satisfactory. Earthwork will not be allowed when the ground is saturated by rainwater.

G2-06 MATERIALS

All fill material shall be of approved local materials from required excavations and supplemented by imported fill as necessary or where specified in the Drawings or as directed by the Geotechnical Engineer. Approved local materials are defined as local non-expansive soils free from organic matter and other deleterious substances and not containing rocks or lumps larger than 3 ½” maximum dimension, and having been tested and approved by the Geotechnical Engineer prior to use.

Imported fill materials to be used as embankment material shall be approved by the Geotechnical Engineer and shall conform to the following requirements.

<u>Sieve Size</u>	<u>Percent Passing</u>
6-inch	100
4-inch	90 - 100
No. 200	15 - 60
Liquid Limit – 40 Maximum	
Plasticity Index – 15 Maximum	
(ASTM D 4318-84 Wet Test Method)	

G2-07 LAYOUT AND PREPARATION

Lay out all work, establish grades, locate existing underground utilities, set markers and stakes, set up and maintain barricades and protect all utilities-all prior to beginning actual earthwork operations, unless specifically stipulated to be supplied by the Owner.

G2-08 CLEARING, GRUBBING AND STRIPPING

Areas to be graded shall be cleaned of old structures, concrete foundations, vegetation, rubble debris, piping and old fills in accordance with the Geotechnical Report. Materials generated by the clearing operation shall be removed from the site. All vegetation, stumps and other debris shall be removed and disposed of so as to leave the areas that have been disturbed with a neat and finished appearance. After clearing, areas designated for excavation and embankment construction shall be stripped of the upper soils containing root growth or organic matter. Deeper strippings shall be performed to remove localized heavy concentration of root growth. The topsoil strippings shall be removed from the project site or stockpiled for reuse as topsoil. Proper drainage of the site and temporary stockpiles will be required. Ponding will not be allowed. Unless specified otherwise in the contract Drawings, only trees designated for removal in the immediate area of the construction

sites shall be downed and disposed of in a proper manner. The District has removed two trees to assist in clearing the site. Four foot stump sections remain to facilitate stump and root structure removal.

G2-09 DISPOSAL OF MATERIALS

All stumps, roots, branches, brush, lumber, pipes, concrete and all other discarded construction materials and debris shall be removed from the project site and disposed of properly by the Contractor.

Excess topsoil and excavation material from all project sites must be removed and properly disposed of offsite by the Contractor. The Contractor shall be responsible for securing all permits and approvals needed for disposal of this material. The Contractor shall provide the Owner with evidence that all permits and approvals have been obtained.

G2-10 EXCAVATION

Excavation shall consist of all excavation and sub-excavation involved in the grading and construction for the Tenney tanks and any other excavation not separately designated and paid for as a separate item. Suitable excavated materials may be stockpiled for reuse as embankment material.

The Contractor shall notify the Owner two (2) working days prior to the beginning of excavation. In accordance with the geotechnical report, the Geotechnical Engineer will observe completed foundation excavations upon completion to confirm conditions encountered are as anticipated. The Contractor shall remove and replace all unsuitable soils as recommended by the Geotechnical Engineer. The Geotechnical Engineer will make the determination whether there are weak surface soils or old fills to be removed within two (2) days of completion of the graded subgrade as defined in the Drawings. Removal of weak surface soils shall be observed by the Geotechnical Engineer. The Contractor shall compact suitable backfill material for the sub-excavated area to 93% relative compaction.

Excavation slopes shall be finished in conformance with the lines and grades established by the Engineer. When completed, the average plane of the slope shall conform to the slopes shown on the Drawings and no point on the completed slopes shall vary from these designated slopes by more than 0.2 feet measured at right angles to the slope.

In the event that prehistoric-era archaeological site indicators (i.e., chipped chert, obsidian tools, tool manufacture waste flakes, grinding implements such as mortars and pestles, and locally darkened soil containing dietary debris such as bone fragments or shellfish remains), or historic-era site indicators (i.e., ceramic, glass or metal) are uncovered, the contractor shall comply with the requirements of specification Section G1-07.

Full compensation for conforming to all of the provisions of this Section and following subsections shall be considered as included in the prices paid for the various contract items of work and no additional compensation will be allowed.

G2-11 PREPARATION OF SUBGRADE

Cleared and excavated soil surfaces shall be approved by the Geotechnical Engineer prior to placement of fill.

When the moisture content of the subgrade is below that required, water shall be added until the proper moisture content is achieved. When the moisture content of the subgrade is higher than required, the subgrade shall be aerated by blading or other methods until the moisture content is satisfactory for compaction.

Areas to receive fill shall be prepared by scarifying to a minimum depth of 6 inches, moisture conditioned to at least 2 percent above optimum moisture content (4 percent for expansive soils) and compacted to at least 90 percent relative compaction. Optimum moisture content is the water content (percentage by dry weight) corresponding to the maximum dry density.

G2-12 PLACING, SPREADING AND COMPACTING FILL MATERIALS

Fill should be placed in thin lifts (normally 6 to 8 inches depending on compaction equipment), uniformly moisture conditioned to at least 2 percent above optimum moisture content (4 percent for expansive soils), and compacted to at least 93 percent relative compaction. All surfaces should be finished to present a smooth, unyielding subgrade.

Work that has been suspended by weather, scheduling or for any other reason, shall be protected against the effects of such weather or other conditions. Grading which has been considered acceptable but which has been subsequently damaged shall be re-worked to meet the requirements of the specifications.

G2-13 OVER-EXCAVATION

Over-excavation beyond the limits defined by the Drawings may be required as directed by the Geotechnical Engineer. Over-excavation including furnishing suitable material and placement of that material shall be in conformance with the directives of the Geotechnical Engineer and shall be paid for as a part of the project's over-excavation bid item unit price and no additional compensation shall be made to the Contractor.

G2-14 TESTING AND OBSERVATION

Grading operations shall be observed by the Geotechnical Engineer, serving as the representative of the Owner.

Field density tests may be made by the Geotechnical Engineer after compaction of each layer of fill. Additional layers of fill shall not be spread until the field density tests indicate that the minimum specified density has been obtained.

In connection with earthwork, tests shall be made in conformance with the following:

TEST METHOD

Relative Compaction	ASTM D1557-12
Sand Equivalent	Calif. No. 217

All tests shall be performed by the Geotechnical Engineer at the expense of the Owner. Tests shall be for the purpose of determining compliance with these Specifications and the frequency and locations of tests shall be at the sole discretion of the Engineer. The Contractor may conduct independent tests for his convenience and control purposes at his sole expense. However, such tests will not be recognized for the purpose of establishing compliance with Specification requirements.

If the Contractor should fail to meet the technical or design requirements embodied in this document and on the applicable plans, he shall make the necessary readjustments until all work is deemed satisfactory, as determined by the Geotechnical Engineer and the Engineer. No deviation from the specifications shall be made except upon written approval of the Geotechnical Engineer or Engineer.

G2-15 STRUCTURE EXCAVATION AND BACKFILL

Structure excavation shall consist of excavation for construction of foundations for structures and the control and removal of water and other facilities as necessary to accomplish the work and the subsequent removal of such facilities except where they are permitted to remain in place.

The Contractor shall exercise special care to adhere to the grades shown on the Drawings and avoid over-excavation unless otherwise directed by the Geotechnical Engineer. In the event that foundation material is disturbed, or soft, spongy conditions are encountered, the material shall be removed and replaced with compacted granular material, aggregate subbase quality or better. Prior dewatering (e.g., by well points or sumps) may be necessary to prevent deterioration of foundation materials and/or conditions.

Temporary cut slopes of 1:1 may be used for planning purposes, but must be reviewed by the Geotechnical Engineer in the field. Depending of the exposed subsurface conditions, presence of groundwater seepage and time of year when excavation is performed, flatter temporary cuts slopes may need to be excavated. The tops of cut slopes should be rounded back to 2:1 in weak soil zones. Temporary construction excavation should conform to the regulations of the State of California, Department of Industrial Relations, Division of Industrial Safety or other stricter governing regulations. The performance of temporary cut slopes is the responsibility of the Contractor.

Whenever any structure excavation is completed substantially to grade, the Contractor shall notify the Owner who will make arrangements for an inspection. No concrete or masonry shall be placed until the foundation has been inspected by the Geotechnical Engineer.

Structure bedding material shall be Class 2 Aggregate Base as specified in Section 26 of the Caltrans Standard Specifications. In addition, aggregate base shall be angular crushed rock material.

Structure backfill shall not be placed until the structure footings or other portions of the structural facility have been inspected by the Engineer.

No backfill material shall be deposited against concrete until the concrete has either attained sufficient strength to withstand the loads imposed or developed a strength of not less than the specified design strength in compression as confirmed by test cylinders.

Structure backfill shall be native material selected from the excavation conforming to the requirements of the geotechnical report. Structure backfill shall be placed and compacted in horizontal, uniform layers typically 6-inches in depth as directed by the Geotechnical Engineer, and shall be brought up uniformly on all sides of the structure or facility. Each layer of backfill shall be compacted to a relative compaction of not less than ninety-three percent (93%). Compaction of structure backfill by ponding or jetting will not be permitted.

G2-16 PERMEABLE MATERIAL

Permeable material for use in backfilling trenches, under, around and over underdrains shall be Class 2 permeable material conforming to Section 68-1.025 of Caltrans Standard Specifications, latest edition.

SECTION G-3 SITE IMPROVEMENTS

G3-01 SCOPE OF WORK

The work covered by this section of the Specifications consists of furnishing all plant, labor, equipment, appliances, and materials and performing all operations in connection with construction of site surfaces including subgrade preparation, placement of base material, final grading, compacting, priming, asphalt concrete or base and all operations necessary for the construction of finished site surface sections, complete in accordance with the Drawings and as specified herein.

G3-02 SUBGRADE PREPARATION

The finish subgrade immediately prior to placing base rock or shale thereon shall have a relative compaction of not less than 95 percent for a depth of 0.5 feet as determined by ASTM 1557.

The subgrade should be free of segregated and loose material and shall be smooth, hard and true to the required grade and cross-section with the tolerances hereinafter specified. Any visible displacement vertically or horizontally of the subgrade under the action of construction equipment shall be considered as evidence that the subgrade does not meet the requirements specified herein and no subsequent layers of material shall be placed upon the subgrade until such time as the cause of the displacement is discovered and repaired in a manner which will meet the requirements of this section. The Contractor shall repair at his expense the damage to the prepared subgrade caused by his operations or by the use of public traffic. No material shall be placed on the prepared subgrade until it is in the condition meeting the requirements specified.

The finish subgrade shall not vary more than 0.05 foot above or 0.10 foot below the grade established by the Engineer. Subgrade that does not meet the above requirements shall be reshaped to conform to the specified tolerances and watered and re-compacted, all at the Contractor's expense.

G3-03 AGGREGATE BASE

Aggregate base shall be furnished and placed as specified in Section 26 of the Caltrans Standard Specifications. In addition, aggregate base shall be angular crushed rock material.

G3-04 ASPHALT CONCRETE

G3-04.1 ASPHALT CONCRETE

Asphalt concrete is for the repair of areas damaged by the Contractor. Asphalt concrete shall be furnished and placed as specified in Section 39 of the Caltrans Standard Specifications and in accordance with the County encroachment permit. The asphalt concrete shall contain liquid antistrip.

Aggregate grading shall be 1/2-inch maximum medium or coarse grading as defined therein.

All patch work, including frames and covers, shall be level with the surrounding pavement. The asphalt concrete patch including frame shall not vary more than 1/4-inch up or down as measured from a horizontal straight edge across each patch. If this 1/4-inch tolerance is not met, the asphalt

patch and/or frame shall be removed and replaced to within the above tolerance. No method which employs heat or addition of asphaltic material to meet the above tolerance will be acceptable. This 1/4-inch tolerance also applies to any settlement due to traffic during the duration of the Contract.

G3-04.2 PRIME COAT

Asphalt concrete installation shall include the prime coat to be placed on the aggregate base before paving operations.

G3-04.3 TACK COAT

Apply tack coat of RS-1 or CRS1 Emulsion to vertical surfaces of existing surfacing that will come into contact with asphalt concrete.

G3-04.4 QUALITY ASSURANCE

Reference Standards: Unless otherwise noted, the latest adopted edition of the following standards shall govern the Work.

- A. Testing and inspection of the aggregate base and asphaltic concrete shall be done by a testing laboratory retained and paid for by the Owner. Any areas receiving failing tests shall be reworked by the Contractor to achieve the minimum specified degree of compaction. It shall be the sole responsibility of the Contractor to achieve satisfactory results.
- B. Relative compaction shall be determined by Test Method No. California 216 and 231.
- C. Caltrans Standards and Specifications, latest Edition.

SECTION G-4 CONCRETE AND REINFORCEMENT

G4-01 SCOPE OF WORK

The work of this section includes cast-in-place concrete associated with the construction of tank foundations, hand-hole and valve box collars, anchor and thrust blocks including preparation of subgrade and base materials and accessories, and slurry cement backfill for use in trenches as shown, complete in accordance with the Drawings and as specified herein. Concrete and reinforcing requirements for the water storage tanks shall be as shown in the Plans.

G4-02 GENERAL

Portland cement concrete structures shall be constructed in accordance with Section 51 of the Caltrans Standard Specifications, latest edition, these special provisions and the details shown on the Plans.

G4-03 MATERIALS

- A. Formwork materials shall be Douglas fir plywood or dimensional lumber.
- B. Reinforcing steel: ASTM A 615, Grade 60 deformed bars, plain finish.
- C. Welded Wire Fabric: ASTM A 185
- D. Concrete: As described in Section 90 of the Caltrans Standard Specification, latest edition. The concrete shall have a minimum cement content of 5 sacks per cubic yard and shall have a compressive strength at the age of twenty-eight (28) days of 4,000 psi unless specified otherwise elsewhere in these specifications, on the Drawings or on shop drawings. Minor concrete may be used for thrust blocking and hand-hole and valve box collars (Design strength for all concrete is 2,500 psi unless noted otherwise.).

G4-04 PREPARATION OF SUBGRADE

Contractor shall ensure rough grading has brought subgrades to required elevations prior to receiving base material for concrete. Subgrade shall be prepared in accordance with Section 1 of these specifications. All boulders or cobble disturbed from their original position shall be removed and backfilled with unreinforced concrete.

G4-05 FORMING

Arrange and assemble formwork to permit easy dismantling and stripping, and to prevent damage to concrete during formwork removal. Formwork shall be tight fitting and adequately stiffened to support weight of concrete without deflection. Formwork on a surface shall be smooth and free of form overlap depressions. Final top of tank foundation elevation shall be verified by Contractor 24 hours prior to commencement of concrete pouring operations.

G4-06 REINFORCEMENT

Place, support and secure reinforcement against displacement. Reinforce concrete structures or paving where and as shown on the Plans.

The Contractor shall provide the Owner a certificate from the reinforcement supplier stating that the steel complies with the requirements of Section 52-1.02 of the Caltrans Standard Specifications, latest edition and the American Iron and Steel requirement.

G4-07 EMBED ITEMS

The Contractor shall insure that all electrical conduit, pipe sleeves, pull boxes, pipes, reinforcing, anchors, etc., are in place prior to pouring concrete. The Contractor shall notify the Owner a minimum of 24 hours prior to commencement of concrete pouring operations. No concrete shall be poured until Owner has inspected formwork to verify that all items to be embedded are in place.

Place concrete continuously between predetermined construction and/or control joints. Do not break or interrupt successive pours such that cold joints occur.

G4-08 CONCRETE CURING

Concrete shall be cured in accordance with Section 90-1.03B of the Caltrans Standard Specifications, latest edition.

G4-09 SURFACE FINISHES

All surface finishes shall conform to Section 51-1.03F of the Caltrans Standard Specifications.

Tank Foundation and Shed Slab Class 1 Broom Finish

G4-10 GROUT

Non-shrink, high strength grout shall be used for all grouting, to produce mortar 5,000 psi min. at 28 days.

Non-shrink cementitious grout shall be added per manufacturer's instructions to a premeasured amount of water that does not exceed the manufacturer's maximum recommended water content. Completely fill all voids; thoroughly compact in place. Do not overwork. Do not re-temper grout by adding more water after stiffening.

Bolts or inserts which have been dry packed or grouted in place shall not be tensioned sooner than 7 days after packing. Acceptable manufacturers include The Burke Company, Master Builders, and W.R. Meadows, Inc.

G4-11 DRY PACK

Dry pack, for cosmetic concrete repairs only, shall consist of one part cement to 2 1/2 parts fine aggregate (screen out all materials retained on No. 4 sieve), mixed with a minimum amount of water, in small amounts. The consistency shall be such that when a ball of the mixture is compressed in the hand it will maintain its shape, showing finger marks, but without showing any surface water.

Roughen all concrete surfaces by heavy sandblasting, chipping, or other mechanical means to assure bond. Loose or broken concrete shall be removed. All grease, oil, dirt, curing compounds, laitance, and other deleterious materials that may affect bond shall be completely removed from

concrete and bottoms of baseplates. For cementitious mortars and grouts, concrete surfaces shall be saturated surface dry. Any standing water shall be removed prior to placing grouts.

Apply epoxy bonding agent to clean, roughened, and dry surfaces before placing mortar or grout.

Exercise particular care in placing Portland cement mortar or grout since they are required to furnish structural strength or impermeable water seal or both. Do not use cement mortar or grout that has not been placed within 30 minutes after mixing.

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SECTION G-5 PRESSURE PIPE AND APPURTENANCES

G5-01 SCOPE OF WORK

All pipe, fittings and appurtenances shall be of the class and type as shown on the Drawings and specified herein. The Contractor shall provide the necessary specials and/or adaptors required to complete the proper installation as shown on the Drawings. Extra pipe, fittings, adaptors or specials shall be provided by the Contractor at his expense in the event the size, type, or locations of existing facilities in the field differ from the Drawings.

The Contractor shall follow the piping arrangements as shown on the Drawings. All Drawings shall be carefully examined and the Contractor shall assume responsibility for the proper fitting of materials and equipment on this project. The Drawings indicate a general arrangement; however, where existing conditions necessitate a rearrangement, the Contractor shall prepare and submit to the Engineer for approval, drawings of the proposed rearrangement.

All materials and components to be furnished and installed that will be in contact with source water or potable water shall be NSF/ANSI Standard 61 certified and listed, and shall be in conformance with the California Plumbing Code and California Health and Safety Code Section 116875. If no NSF Standard 61 approved product is available, items approved by the FDA or USDA for use with food products may be submitted for a NSF Standard 61 Waiver Request that will be subject to review and possible approval by the regulatory authority State Water Resources Control Board, Division of Drinking Water.

All pipe shall be delivered to the site with sealed ends.

G5-02 PRESSURE PIPE

G5-02.1 GENERAL

Pipe shall be as shown on the Drawings and as specified herein.

Each and every length of pipe and coupling shall be marked with the manufacturer's name, lot number and the date the pipe was tested.

Pressure pipe smaller than 4-inches in diameter installed below grade shall be Schedule 80 polyvinyl chloride (PVC) or galvanized pipe, unless otherwise noted on the Drawings. Pressure pipe 4-inches in diameter and larger installed below grade shall be large diameter polyvinyl chloride (PVC) pipe, C-900 polyvinyl chloride pipe or ductile iron pipe unless otherwise noted on the Drawings. Pressure pipe smaller than 4-inches in diameter installed above grade shall be galvanized steel pipe. Pressure pipe 4-inches in diameter and larger installed above grade shall be fusion bonded epoxy ductile iron pipe or fusion bonded epoxy welded steel pipe, unless otherwise noted on the Drawings. All piping and fittings installed above grade shall be coated to match the exterior of the tank unless directed otherwise.

All bolts, nuts, washers, and threaded rods shall be 316 stainless steel. All brackets and clamps used for thrust restraint shall be 316 stainless steel.

G5-02.2 DUCTILE IRON PIPE

Ductile Iron Pipe (DIP) shall be new pipe conforming to American National Standards Institute (ANSI) A 21.51, (AWWA C-151) for Pressure Class 350 Ductile Iron Pipe. The pipe shall be furnished with the type of joint shown on the Drawings. Mechanical joints shall be made up with stainless steel bolts.

Ductile iron pipe installed below grade shall be coated outside with a bituminous coating and shall be lined inside with cement mortar in conformance with the applicable sections of the ANSI21.4 AWWA C-104. DIP installed underground shall be wrapped with 8-mil polyethylene tube in accordance with AWWA C105/ ANSI A21.5-82, Method "A".

Ductile iron pipe installed above grade and transitioning from below grade to above grade shall be fusion-bonded epoxy lined and coated in accordance with AWWA C116 latest edition.

G5-02.3 LARGE DIAMETER POLYVINYL CHLORIDE (PVC) PIPE

Polyvinyl chloride (PVC) pipe, 4-inch through 12-inch diameter, shall have a dimension ratio (DR) of 18, unless designated otherwise on the drawings, and be unplasticized polyvinyl chloride conforming to AWWA Standard C900 and ASTM Standard D2241. All pipe shall be suitable for use as a pressure conduit. Provisions shall be made for expansion and contraction at each joint with an elastomeric ring. The pipe shall be certified to meet NSF-61.

A certificate of compliance shall be furnished to the Owner certifying that the pipe which is to be delivered has been tested and meets the requirements of the American Water Works Association (AWWA).

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| Pipe joints | PVC joints shall be gasketed bell end or gasketed coupling of the rubber sealing "ring-tite", or approved equal. Bell end type joints shall be manufactured as an integral part of the pipe with a wall thickness not less than the pipe thickness. Solvent-cement couplings shall not be allowed. |
| Gaskets | Elastomeric gaskets shall conform to ASTM Standard D3139. Rubber rings installed at fittings and valves shall be solid rubber as recommended by the manufacturer. |
| Lubricant | Lubricants shall be suitable for use with PVC pipe and as recommended by the manufacturer. |
| Fittings | Fittings shall be ductile iron fittings as specified in Section 4-03. |

G5-02.4 SMALL DIAMETER PVC PIPE

Polyvinyl chloride (PVC) piping, less than 4-inch in diameter shall be Schedule 80, unless designated otherwise on the plans, and shall conform to the following specification.

PVC shall be manufactured from compounds conforming to ASTM Specifications D-1784 "Specifications for Rigid Poly (Vinyl Chloride) Compounds and Chlorinated Poly (Vinyl Chloride) Compounds" Type 1, Grade 1 Polyvinyl Chloride and shall comply to ASTM

Specifications: D-1785 "Specifications for Poly (Vinyl Chloride) (PVC) Plastic Pipe, Schedules 40, 80 and 120" or ASTM Specifications: D-2241 "Specifications for Poly (Vinyl Chloride) (PVC) Plastic Pipe (SDR-PR and Class T)". Couplings and fittings may be solvent welded.

G5-02.5 GALVANIZED STEEL PIPE

Galvanized steel pipe shall meet the requirements of ASTM A53/53M Schedule 40 except as specified herein or noted on the Drawings.

Steel pipe shall be hot dipped galvanized, unless noted on the Drawings, giving a uniform coating of zinc both internally and externally. Galvanizing shall not deposit less than 1.75 ounces of zinc per square foot on either the inside or outside surfaces.

Threaded pipe shall be furnished with thread protectors on the uncoupled end. Buried galvanized pipe shall be wrapped with two layers of 10-mil tape 3M or equal for corrosion control.

Fittings for galvanized pipe shall be made of the same materials as the pipe and shall be threaded.

G5-02.6 WELDED STEEL PIPE

Steel pipe shall comply with the requirements of AWWA C200, current edition. All steel pipe shall be Schedule 40 fusion bonded epoxy coated in compliance with the requirements of AWWA C213, current edition.

G5-03 DUCTILE IRON FITTINGS

Mechanical joint and push on joint fittings for large diameter PVC and DIP shall conform to AWWA C110/ANSI A21.10 or AWWA C153/ANSI A21.53 and AWWA C111/ANSI A21.1, latest edition and may be either new, gray iron or ductile iron. Mechanical joints shall be completed using stainless steel bolts.

Flanged fittings shall be Class 125 and shall conform to AWWA C110/ANSI A21.10 and AWWA C111/ANSI A21.1, latest edition and may be either new, gray iron or ductile iron. Flanges shall be faced and finished smooth. Flanged fittings conforming to AWWA C153/ANSI A21.53 shall not be used. Flange fittings shall be made up using stainless steel bolts.

Fittings installed below grade shall be bituminous coated outside and cement mortar lined inside in conformance with ANSI/AWWA C104/A21.4, and have a minimum working pressure rating of 250 psi. End connections shall be as shown on the Drawings. Fittings installed above ground shall be fusion bonded epoxy coated inside and out in compliance with the requirements of AWWA C116/A21.16. Fittings installed underground shall be wrapped with 8-mil polyethylene tube in accordance with AWWA C105/ ANSI A21.5-82, Method "A".

Where needed, restraint glands shall be provided at each joint. The retention system shall be adequate to restrain any movement due to thrusts generated at 150 percent of design working pressures.

G5-04 JOINT RESTRAINT

Restrained joints in standard ductile iron piping shall be either MJ pipe with restraint glands, Tyton Joint push on joints with bell restraints or Tyton Joint push on joints using a restraint gasket. The bell restraints shall be Megalug Series 1700 or 1500TD as manufactured by EBAA Iron or approved equal. The restraint gasket shall be Field Lok gasket as manufactured by US Pipe or approved equal. Restraint glands for MJ pipe shall be Megalug Series 1100 as manufactured by EBAA Iron or approved equal. All rods shall be stainless steel.

Restrained joints in DIP at fittings shall consist of MJ fittings with the previously specified restraint glands for DIP.

Restraint of PVC bell and spigot joints shall be accomplished using a bell restraint device. The device shall be a split serrated ring bolted on the spigot end of the pipe attached by threaded rods to a split serrated ring bolted on the pipe behind the bell. The bell restraints shall be a series 1500 or 1500TD as manufactured by EBAA Iron or approved equal. All rods, bolts and nuts shall be stainless steel.

Restrained joints at PVC pipe attachment to a ductile iron fitting shall be accomplished using a MJ fitting with a restraint gland. The restraint gland shall be a gland with multiple gripping wedges specifically designed for PVC incorporated into the gland activated by the use of torque limiting twist off nuts. The restraint gland shall be Megalug Series 2000PV as manufactured by EBAA Iron or approved equal. Nuts and bolts shall be stainless steel.

When threaded rod of any type is used for restraint, the rod and any nuts and washers used shall be stainless steel.

G5-05 VALVES

G5-05.1 GENERAL

Below grade valves 2-inches and larger shall be gate valves unless otherwise indicated on the drawings. Valves above grade 2-inches diameter and smaller shall be ball valves unless otherwise indicated on the drawings. Valve above grade larger than 2-inches in diameter shall be gate valves unless otherwise indicated on the drawings.

G5-05.2 GATE VALVES

Gate valves 4-inches and larger installed above or below grade and gate valves 2-inches in diameter and larger installed below grade shall conform to AWWA Standard C509, latest revision, for Resilient Seated Gate Valves with non-rising stems. All bolts shall be stainless steel.

Valves installed below grade, unless otherwise indicated on Drawings, shall have non-rising stems with 2-inch square operating nut with an arrow cast in the metal to indicate direction of opening.

Valves to be installed above grade or in vaults, unless otherwise indicated on Drawings, shall have non-rising stems with spoke-type handwheels with an arrow cast in metal indicating the direction to turn the wheel to open the valve.

Sealing mechanism shall provide zero leakage at the water working pressure against line flow from either direction and be designed such that no exposed metal seams, edges, screws, etc., are within the waterway in the closed position (all rubber surfaces). The rubber-covered gate shall not be wedged into a pocket or slide across the seating surface to obtain tight closure.

The stem shall be furnished with dual O-Rings above the stem collar for an inside screw design. Another O-Ring shall be provided underneath the stem collar to seal bearing surfaces from line content. The area between the O-Rings shall be filled with lubricant. Anti-friction washers shall be provided at the stem collar for inside screw design.

All internal and external ferrous surfaces of the valve, including the interior of the gate, shall be coated in accordance with ANSI/AWWA C550. Coating to be applied to castings prior to assembly to insure all exposed areas, including bolt holes and flange face surfaces, will be covered.

Valves shall be available with various ends designed for connection to piping specified.

Valves shall be seat tested at the rated working pressure of 200 psi with no leakage. A shell test of 400 psi shall be applied to body with valve in the open position with no leakage through the metal, flanged joints, or stem seals.

Each below grade gate valve shall be covered by a precast 8-inch valve box set as shown on the plans with cast iron ring and cover marked "WATER". The valve boxes are to be Christy G-5, Brooks No. 4TT or approved equal.

G5-05.3 BALL VALVES

Ball valves shall be full port brass ball valves with a handle quarter turn stops. Connections shall be threaded. The ball valve shall be rated to 600 psi water pressure. The valve body shall be two pieces. The stem seal shall be blowout proof stainless steel stem with adjustable packing. The valve shall be certified to be in accordance with NSF-61.

The valve shall be model 77CLF as manufactured by Apollo Valves or approved equal.

G5-06 FLEXIBLE COUPLINGS

Flexible couplings shall be provided at locations shown on the Drawings and as required to complete the water main installation. Flexible couplings shall only be used where one side of the connection is asbestos cement pipe, asphalt wrapped steel pipe or where specified on the Drawings. The barrel length of flexible couplings shall be minimum 12-inches for pipe 4-inch diameter and larger. The coating shall meet AWWA C116 for ductile iron or C213 for steel. A DIP mechanical joint sleeve shall be used to connect two pipes having the same standard DIP outside diameter.

Flexible couplings for 4-inch diameter pipe and larger shall be 462-12-inch Quantum Coupling with stainless steel nuts and bolts as manufactured by Smith Blair or FC2W-L12-SH with stainless steel nuts and bolts as manufactured by Ford Meter Box Company or approved equal.

Flexible couplings for pipe smaller than 4-inch in diameter shall be 462 Quantum Coupling with stainless steel nuts and bolts as manufactured by Smith Blair or FC2W with stainless steel nuts

and bolts as manufactured by Ford Meter Box Company, #461 as manufactured by Smith-Blair, or approved equal.

G5-07 RESTRAINED FLANGED COUPLING ADAPTERS

Restrained flange coupling adapters (FCA) shall be used to create a restrained flanged end on plain end piping. The restrained flange coupling adapters shall meet AWWA C219 with the following modifications. For pipe 3" and larger the coupling side shall be a mechanical joint with a restraint gland. The coating shall meet AWWA C116 for ductile iron or C213 for steel. All bolts, rods, nuts and washers shall be stainless steel. For pipe 3" and larger the restrained FCA shall be Model 911 Flange-Lock Restrained FCA as manufactured by Smith Blair, RFCA as manufactured by Romac Industries, Inc. or approved equal. For 2" pipe the restrained FCA shall be model EZW as manufactured by Smith Blair or approved equal.

G5-08 EXPANSION JOINT

Expansion joints shall be a single wide arch flanged expansion joint. The material in contact with the water shall be polytetrafluoroethylene (PTFE). The backup rings for the flanged connections shall be stainless steel. The expansion joint shall be supplied with manufacturer recommended limiting rods. The expansion joint shall be certified to be in accordance with NSF-61.

The rubber expansion joint shall be a J1 wide arch as manufactured by Red Valve Company, Inc. or approved equal

G5-09 SWING CHECK VALVE

Swing check valves shall have only one moving part, a Buna-N flapper disc with alloy steel and nylon reinforcement. The body shall be high strength ductile iron, shall be coated inside and out by an NSF 61 certified fusion bonded epoxy in accordance with AWWA C550, and shall provide 100% of the flow area with no restrictions. The flapper shall make a drop tight seal with an O-ring.

Swing check valves shall be certified compliant with AWWA C508, NSF/ANSI 61 for Drinking Water and NSF/ANSI 372 Lead Free. The selected check valve shall be rated for low head operation with no more than 6 feet of total head loss at a flow rate of 150 gpm.

The swing check valve shall be a Swing-Flex as manufactured by Val-Matic Valve and Manufacturing Corp. or approved equal.

G5-10 WATER FLEX CHECK VALVE

Water flex check valves shall be a perforated stainless steel plate with a stainless steel bar holding a rubber disk that will allow water to flow in one direction and not the other. The stainless steel plate shall match the outside diameter of the flanges adjacent to it and have a standard flange bolt pattern for the pipe size.

Water flex check valves shall be certified compliant with NSF/ANSI 61 for Drinking Water and NSF/ANSI 372 Lead Free.

Water flex check valves shall be full face style WF-3 as manufactured by Tideflex Technologies or approved equal.

G5-11 TRACER WIRE

Tracer wire shall be #10 gauge insulated solid copper wire.

Where new pipe joins to an existing pipe without tracer wire wrap the tracer wire around the existing pipe as far back as possible.

G5-12 WATER SERVICE COMPONENTS

Water service components shall be in accordance with AWWA C-800 as applicable. All brass components shall conform to California Health and Safety Code Section 116875. Components shall conform to California Health and Safety Code Section 116875 Section 2, containing no more than 0.25% lead in any wetted surface area parts.

G5-12.1 SERVICE SADDLES

Service saddles on ductile iron pipe shall be a Jones J979, Mueller BR2B series or approved equal. Service saddles on PVC pipe shall be Jones J996, Mueller H-1300 series or approved equal. Service connections on HDPE pipe shall be made using a compression tee with a 1-inch NPT tapped branch outlet.

G5-13 ASBESTOS CEMENT PIPE

Asbestos cement piping is known to be present in the existing distribution system the Contractor is cautioned that asbestos cement pipe may be encountered. The pipe is not anticipated to be friable. Disturbance and/or removal of asbestos-containing materials may be subject to the requirements of Cal-OSHA (Section 1529 of the Construction Safety Orders, and Section 5208 of the General Industry Safety Orders), and of the Health and Safety Code, Section 25915, et seq. Contractor shall meet all notification and training requirements for working with asbestos.

Contractor shall be responsible for the removal from the site and the proper disposal of any AC pipe encountered in accordance with all federal, state and local regulations. All AC pipe removed from its pre-construction location shall be immediately bagged and properly disposed of offsite in accordance with all federal, state and local regulations. A licensed Contractor certified in asbestos abatement may be required to perform portions of the work if friable asbestos is encountered. AC pipe not moved from its pre-construction location prior may be abandoned in place in accordance with these specifications and the Drawings.

Additional information on the disposal of asbestos-containing materials may be available from the following agencies:

Cal-OSHA
(707) 576-2388

Bay Area Air Quality Management District
939 Ellis Street
San Francisco, CA
(415) 771-6000

Compensation for compliance with the provisions of this section shall be considered included in the associated bid items of work and no additional payment will be made therefore.

SECTION G-6 PIPE INSTALLATION

G6-01 SCOPE

The work covered by this section consists of furnishing all plant, labor, equipment, appliances and materials, and in performing all operations in connection with the installation of pipe. Fixtures and equipment shall be tightly covered and protected against damage during construction and shall be thoroughly cleaned upon completion of the work.

G6-02 EXCAVATION

The Contractor shall make all necessary excavation to construct the work shown on the Drawings in accordance with the dimensions shown thereon. Excavation shall include the removal of all materials of any nature or surface obstructions of any nature that would interfere with the execution of the work. The trenches and other excavation shall be kept entirely free of water while pipe is being laid.

The Contractor, at his own expense, shall provide sufficient pumping equipment and the operation thereof to remove ground water from the excavation. Water shall be disposed of in such a manner as to cause no injury to public or private property, nor be a menace to the public health per Section 1-05 of the Engineers Supplementary Conditions. Water shall be disposed of according to all governmental regulations local, state and federal.

Where soft, wet, spongy, or unsuitable trench foundation is encountered, gravel or crushed rock shall be placed under the pipe to facilitate construction. The gravel or crushed rock shall be clean and shall be of 3/4 inch x 1/8 inch size. The cost of furnishing and placing material shall be included in the price bid for the item including the piping and no further compensation will be provided therefore.

All materials excavated that are not required for backfilling shall be promptly removed and disposed of by the Contractor. The Contractor shall obtain written authorization from private property owners for disposal of excess materials. The private property owners shall obtain the proper grading permit from the applicable public agency prior to disposal by the Contractor. Evidence of the Contractor's authorization to dispose of the excess material shall be provided to the Owner.

G6-03 WIDTH AND DEPTH OF TRENCH

The maximum excavated trench width at a point level with the top of the pipe shall be as shown on the Drawings. A lesser width may be used, with the approval of the Engineer, so long as it provides adequate working space for proper placing and compacting of bedding under and around the lower half of the pipe.

If the trench width exceeds the maximum dimension shown on the plans, the Contractor shall submit calculations to the Engineer indicating that the allowable strength of the pipe will not be exceeded. If the allowable strength of pipe is exceeded, the Contractor shall install pipe of adequate strength to support the applied load, all at his own expense. The trench shall be excavated carefully to line and grade and to a depth that will provide the amount of cover over the top of pipe as shown on the Drawings. For limited sections, it may be necessary for the trench to be deeper to avoid

obstacles shown on the Drawings and/or found in the field, and by direction of the Engineer the line or grade, or both, may be ordered changed to afford clearance, and the Contractor shall be entitled to no additional compensation therefore.

The trench shall be excavated to the dimensions and depth shown on the Drawings and in a manner which will produce a firm foundation for supporting the entire length of each section of pipe. Bell holes shall be provided so that the load is carried on the pipe barrel.

G6-04 BRACING EXCAVATIONS

Excavations shall be so braced and supported that they will be safe, and the ground alongside the excavation will not slide or settle, and all existing improvements of any kind, either on public or private property will be fully protected from damage. If any damage does result to such improvements, the Contractor shall make the necessary repairs or reconstruction at his own expense. Sheet piling and other timbers shall be driven in such a manner as to prevent caving the walls of the excavation.

In no case shall shoring or bracing which has been driven below the flow line of the pipe be removed. It may be cut off at or above the flow line grade.

G6-05 PIPE INSTALLATION

Pipe shall be handled and stored so as to prevent damage thereto, or to existing improvements. Pipe, when stored, shall be properly blocked to prevent rolling.

Any pipe which, in the opinion of the Owner has been damaged will be marked "rejected" and shall be immediately and permanently removed from the site of the work by the Contractor.

PVC pipe shall be installed per AWWA C605, Underground Installation of PVC Pressure Pipe and Fittings for Water, latest revision and in accordance with the manufacturer's recommendations. Tracer wire shall be installed on all piping.

Ductile iron pipe shall be installed per AWWA C600, Installation of Ductile Iron Water Mains and their Appurtenances, latest revision and in accordance with the manufacturer's recommendations. When mechanical joint pipe is used, all bolts and nuts shall be stainless steel. A No. 10 gage, solid, insulated copper wire shall be laid on the top of the pipe in accordance with Section 4-06 of the Technical Specifications.

Wherever possible, the Contractor shall avoid the distribution of pipe to the trench site too far in advance of the laying operations. The Contractor shall exercise care in the unloading of the pipe so as to avoid damage caused by the unloading operations.

Proper implements, tools, and facilities shall be provided and used by the Contractor for the safe and efficient prosecution of the work. All pipe, fittings and valves shall be carefully lowered into the trench by means of a derrick, ropes or other suitable tools or equipment, in such a manner as to prevent damage to pipe materials protective coatings and linings. Under no circumstances shall pipe materials be dropped or dumped into the trench.

Every precaution shall be taken to prevent foreign material from entering the pipe while it is being placed in the line. If the pipe laying crew cannot put the pipe into the trench and in place without getting earth into it, the Engineer may require that before lowering the pipe into the trench, a heavy, tightly woven canvas bag of suitable size shall be placed over each end and left there until the connection is to be made to the adjacent pipe. During laying operations, no debris, tools, clothing or other material shall be placed in the pipe.

Pipe and fittings which do not allow a sufficient and uniform space for joints shall be removed and replaced with pipe and fittings of proper dimensions to insure such uniform space. Precautions shall be taken to prevent dirt from entering the joint space. At times when pipe laying is not in progress, the open ends of pipe shall be secured by installing a watertight plug.

Wherever the jointing material specified is cement, two or more lengths of pipe shall be in place ahead of each joint before such joint is finished.

The cutting of pipe for inserting valves, fittings, or closure pieces shall be done in a neat and workmanlike manner without damage to the pipe or cement lining and so as to leave a smooth end at right angles to the axis of the pipe.

Pipe shall be laid with bell ends facing in the direction of laying, and shall progress uphill unless otherwise directed by the Engineer.

Each joint shall be checked for proper installation before another section of pipe is installed.

Wherever it is necessary to deflect or bend the pipe from a straight line, either in the vertical or horizontal plane, to avoid obstructions, or where long radius curves are permitted, the amount of deflection or bending shall not exceed that recommended by the pipe manufacturer.

No pipe shall be laid in water or when trench conditions are unsuitable to allow performing the job in a workmanlike manner.

All solvents used for solvent weld joints shall be obtained from the pipe manufacturer and applied according to his instructions. Solvent shall not be allowed to form a puddle inside the pipe joint. All excess solvent shall be removed.

Connections between PVC pipe and threaded iron pipe shall be made with PVC male thread by slip adapters. Iron pipe male threads shall not be screwed into PVC couplings or a female thread by slip adapter.

Metal harness, tie rods, bolts, rods and clamps of adequate strength to prevent the movement of fittings, specials and adaptors shall be used where concrete thrust or reaction backing is impracticable. Metal harness, tie rods, bolts, rods and clamps shall be stainless steel and shall conform to the applicable portions of Section 75 of the Caltrans Standard Specification latest edition.

All buried nuts, bolts and miscellaneous metal shall be stainless steel.

Installation practices including support spacing, compensation for expansion and contraction, minimum bending radius and assembly shall be in compliance with manufacturer's printed recommendations.

G6-06 TRACER WIRE INSTALLATION

Tracer wire shall be installed on all buried piping. Buried splices in the tracer wire shall be avoided by terminating the ends of the tracer wire in a concrete utility structure (i.e. valve box, meter box, etc.). Where an underground splice in the tracer wire is unavoidable, the ends of the wire shall be stripped bare and fastened together with an appropriately sized brass split bolt. The connection shall then be completely encased with liquid electrical tape, Gardner Bender, Scotchkote manufactured by 3M or equal, and tightly wrapped with rubber electrical tape. The tracer wire shall be attached to the water main with duct tape or other means to prevent displacement during backfilling operations.

G6-07 GRADE AND ALIGNMENT CONTROL

The Contractor shall utilize the necessary trenching and installation procedure to insure the pipe is installed straight or on smooth curves, horizontal or vertical, as shown on the Drawings. Misalignment caused by the trencher or backhoe shall be corrected before pipe is installed to provide specified room for bedding and compacting around the pipe.

Any proposed deviation from the above methods must be approved by the Owner prior to beginning construction and will be subject to disapproval if too difficult for the Inspector to discern.

G6-08 INSTALLATION OF VALVES, VALVE BOXES

Valves, valve boxes, and miscellaneous appurtenances shall be installed as shown on the Drawings and specified herein. Valves shall be properly plumbed and leveled in order to provide proper seating of the wrench and wrench nut for easy operation. Concrete valve boxes shall be firmly supported and maintained, centered and plumb over the wrench nut of the valve, with box cover flush with the surface of the finished grade or such other level as may be specified by the Engineer. Extension sections shall be centered over the wrench nut and extend from the body of the valve to the concrete valve boxes. Valve boxes shall be supplied and installed on all underground valves.

Valve boxes in paved areas shall be adjusted to finished pavement grade after paving operations. Valve boxes in areas with concrete walkways or floors shall be set to finish elevation before the concrete is placed.

G6-09 PIPE BEDDING

Bedding material shall be free from vegetable material and shall not contain high concentrations of contaminants or other deleterious substances and shall be so placed that the pipe will not be displaced or damaged. Limits of bedding shall be as shown on the Plans. Bedding material shall be a virgin material (not recycled).

The percentage composition by weight of aggregate bedding shall conform to the gradations shown on the Plans.

All loose material resulting from trench excavation shall be removed from the trench bottom prior to placing pipe bedding material. Bedding material up to bottom of pipe shall be placed in uniform layers not to exceed 6" in thickness and shall be compacted, by mechanical equipment, to 90% relative compaction. The pipe shall be uniformly bedded throughout its length. Uniform bedding shall be accomplished by grading the bedding and by lightly "bouncing" the pipe to set it into the bedding. Pipe shall not bear on bells, coupling or joints. The bedding shall be excavated at these locations as necessary to provide at least two inches of bedding material below the bell coupling or joint. No wedging or blocking of pipe will be permitted. Pipe bedding from bottom of pipe to spring line of pipe shall be placed and compacted after pipe has been placed and joints and compacted to 90% relative compaction. Pipe bedding from the spring line of the pipe to the crown of the pipe shall be placed and compacted to 90% relative compaction. Pipe bedding from the crown of the pipe shall be placed and compacted to 90% relative compaction in 8" lifts. Compaction methods shall not damage pipe or joints.

G6-09.1 TRENCH BACKFILL

Limits of trench backfill shall be as shown on the Plans. Trench backfill material shall be in conformance with the requirements on the Plans.

G6-09.2 COMPACTION

Compaction shall be to the degree as shown on the Plans. Compaction shall not damage the installation during the operation.

G6-10 TRACER WIRE CONDUCTIVITY TESTING

After pipe backfilling but prior to disinfection and pressure testing, the Contractor shall test the tracer wire for positive conductivity along each section of tracer wire. Tracer wire sections which do not show positive conductivity shall be excavated, repaired and retested. The cost of conductivity testing shall be included in the contract price for the water main and no additional compensation shall be allowed therefore.

G6-11 TESTING PRESSURE PIPE

After the pipe has been laid and all backfill placed and compacted to the requirements specified elsewhere herein, but prior to placing any permanent surfacing, the Contractor shall subject the newly laid pipe and appurtenances to a hydro-static test and a leakage test. The Contractor shall provide all water necessary for testing and shall be responsible to provide, install, and operate all gates, measuring devices, and apparatus necessary to conduct the tests. Reasonable amounts of water may be obtained from the Owner at no cost. The location, withdrawal rate and metering device and backflow prevention device necessary shall be subject to Owner approval. Testing shall not be done until at least 36 hours after installing concrete thrust blocks. The maximum length of test section, the duration of the test, and allowable leakage shall be as specified herein.

The pipe shall be filled with water for a minimum of 24 hours before the pipe is tested. Care shall be taken in filling and testing the new pipe to prevent damage due to water hammer caused by entrapped air. All air shall be expelled from the pipe line prior to testing. In no case shall the filling rate exceed the following:

<u>Pipe Size</u>	<u>Maximum Filling Rate (Gravity & Pressure Pipe)</u>
4-inch & less	25 gpm
6-inch	60 gpm

The Contractor, at his option, may test the line at any time during construction. However, the final test for acceptance shall be made only after all backfill is in place. Each valved section of pipe, or combined sections, as approved by the Owner, shall be subjected to a hydrostatic pressure of not less than 200 psi for 15 minutes, then a leakage test at 150 psi for 30 minutes for a total duration of 45 minutes. Valves on existing mains in service required to be operated in connection with the test shall be operated only by personnel of the Owner. Each section of pipe shall be slowly filled with water and the specified test pressure shall be applied by means of a pump connected to the pipe in a satisfactory manner. The pump, pipe connection, all necessary apparatus, gauges and measuring devices shall be furnished by the Contractor. The Contractor shall make the taps into the pipe and shall furnish all necessary assistance for conducting the tests. Before applying the test pressure, all air shall be expelled from the pipe. To accomplish this, taps shall be made, if necessary, at the points of the highest elevation, and afterward tightly plugged.

Suitable means shall be provided by the Contractor so that the Owner can determine the quantity of water leakage under the test pressure. No pipe installation will be accepted until all leakage is stopped. The Contractor shall, at his own expense, locate the cause and repair any leakage.

Upon completion of the tests, the test water shall be carefully disposed of by the Contractor in a manner satisfactory to the Owner. The Contractor shall assume full responsibility for any property or personal damage incurred during the test operation or from disposal of test water.

G6-12 FLUSHING

Upon completion of pressure/leakage testing and prior to chlorination of water mains, all mains and services shall be flushed with water from the existing system. Flushing shall continue until all debris has been cleared from mains and services. Flushing shall be accomplished at a minimum velocity of 2.5 feet per second.

The Contractor shall provide for proper disposal of excess water in accordance to all Local, State and Federal regulations with prior approval from the District

G6-13 DISINFECTION

The Contractor shall disinfect and test all new water mains and repaired portions of, or extensions to existing mains in accordance with the AWWA Specification C651.

The Contractor shall make all necessary arrangements to procure and supply the water for chlorination purposes. Following chlorination for the prescribed period, mains shall be flushed and water samples shall be collected and tested for bacteria by an approved laboratory. Per AWWA Specification C651, each sample point shall require two (2) samples taken 24 hours apart. If the water is "unsafe", re-chlorination and additional laboratory tests will be required until the water is "safe". The cost for chlorination, flushing, laboratory analysis, re-chlorination and additional laboratory analysis are the responsibility of the Contractor.

The Contractor shall take bacteria test samples and a representative of the Owner or mutually agreed-upon party shall deliver the bacteria test samples to a California DPH certified laboratory.

Disposition of the chlorinated dosing water shall be the responsibility of the Contractor and shall be performed in a manner satisfactory to and at the approval of the Owner. The approval of the Owner does not relieve the Contractor of the responsibility of adhering to all applicable laws regarding discharge of water to disposal areas or waterways. The Contractor shall furnish and install the necessary corporation cocks and appurtenances that may be required to accomplish adequate disinfection.

G6-14 WATER MAIN CONNECTIONS

The Contractor shall notify the Owner and Engineer five business days prior to water main shutdowns required to facilitate Contractor's connection operations. All shutdowns and valve turning operations shall be performed by Owner personnel only. No connections shall be performed without prior authorization of the Engineer.

Connections shall be disinfected according to Section 4.6, including 4.6.1 and 4.6.2, AWWA Specification C651 Disinfecting Water Mains. Bacteriological samples shall be taken by the Contractor in accordance with Section 4.75 of above specification as if the connection was a repair.

During the connection, the Contractor shall exercise all necessary precautions to prevent the entrance of trench water or any other foreign material into the existing water main and shall conduct all operations in accordance with the most stringent sanitation practices.

Connections to existing piping with an outside diameter matching C-900 PVC pipe or ductile iron pipe shall be made with ductile iron mechanical joint sleeves with restraint glands. Connections to existing AC piping shall use flexible couplings.

G6-15 RESTORATION OF SURFACING

Surfacing disturbed by pipe installation shall be restored as specified herein and includes the restoration of existing street and road surfacing including driveways, shoulders, pavement, pathways, the restoration of surfacing in easements and any other surfaces at locations where pipes and appurtenances are installed. Driveways, walkways and other locations where concrete, gravel or other materials are present shall be replaced in kind and appearance. All surface restoration shall be in accordance with the Plans.

The trench widths shown on the plans are minimum dimensions. Where trenches are excavated and/or have fallen to greater widths than the minimum width set forth on the plans, such greater widths shall be considered to require restoration.

Earth surfacing shall be soil similar to the native soil in the surrounding area in which the work is being done. Compaction for each type of soil shall be equal to the compaction of the native soil surrounding the area being restored, where originally earth surfaced. Topsoil material shall be mounded slightly over the restoration as shown on the Drawings and where directed.

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SECTION G-7 BOLTED STEEL WATER STORAGE TANK

G7-01 GENERAL

The work covered by this section of the Specifications consists of furnishing all plant, labor, equipment, appliances and materials, and in performing all operations in connection with the design, manufacture and construction of bolted steel water storage tanks for potable water in strict accordance with this section of the Specifications and the Drawings. The diameter, finished floor elevation, maximum water surface elevation, and all appurtenances for each tank shall be as shown on the Drawings unless otherwise approved by the Engineer.

The materials, design, fabrication, erection and testing of bolted steel tanks shall conform to AWWA D103, latest revision. In addition the requirements herein shall also be met.

Each tank shall be certified and listed by an accredited laboratory to meet ANSI/NSF Additives Standard No. 61 for potable water storage or all parts or coatings in contact with the water (interior coating, bolts, nuts, washers, gaskets, sealant) shall be certified and listed by an accredited laboratory to meet ANSI/NSF Additives Standard No. 61 for potable water storage.

If Additive Bid Item No. 1 is awarded, each tank will be equipped with a passive cathodic protection system as specified in Section G-9 herein. The tank manufacturer shall coordinate the locations of penetrations and conduit routing with the approved design of the cathodic protection system. The roof penetrations shall be shown on the tank submittal drawings and be made before the roof panels are coated.

G7-02 TANK DESIGN, STANDARD SPECIFICATIONS AND DRAWINGS

The materials, design, fabrication and erection of bolt together tanks shall conform to the AWWA Standard for "Factory-Coated Bolted Steel Tanks for Water Storage" (ANSI/AWWA D103, latest revision) and the California Building Code. In addition, the requirements herein shall also be met. The thickness of the bottom 8 (eight) feet of wall stave shall not be less than 1/4" (.25"). The minimum thickness of the remaining staves, floor, and deck sheets shall not be less than 10 gauge (0.1345"). The basic tank information is as follows.

Tank 1

Capacity (Nominal Maximum Operating)	52,700 gallons
Diameter	26.74 feet
Foundation Type	Ring Footing
Top of Foundation Elevation	330.50 feet
Floor	Steel
Normal Maximum Operating Water Level	12.58 feet
Overflow Depth	13.08 feet
Shell Height	15.08 feet

Tank 2

Capacity (Nominal Maximum Operating)	43,700 gallons
Diameter	21.54 feet
Foundation Type	Ring Footing
Top of Foundation Elevation	327.00 feet
Floor	Steel
Normal Maximum Operating Water Level	16.08 feet
Overflow Depth	16.58 feet
Shell Height	18.58 feet

The following Design parameters shall be used in the seismic design:

Seismic Use Group	III
Freeboard Height	As noted in dimensions above.
Seismic Importance Factor	1.5
Site Classification	C
0.2 sec Spectral Response Acceleration, S_S	2.401 Per USGS
1.0 sec Spectral Response Acceleration, S_1	1.006 Per USGS
0.2 sec Maximum Spectral Response, S_{MS}	Per AWWA D103
1.0 sec Maximum Spectral Response, S_{M1}	Per AWWA D103
0.2 sec Design Spectral Response, S_{DS}	1.921 Per USGS
1.0 sec Design Spectral Response, S_{D1}	1.026 Per USGS

The required freeboard is not met in the above dimensions. Each tank roof shall be designed to resist the upward forces due to a seismic event with the above dimensions. The tank roof shall be included in the seismic structural analysis.

The Contractor shall provide detailed drawings, and supporting structural analyses signed by a civil or structural engineer licensed in the State of California for review. The drawings shall show plate thickness and width, number and size of structural members, construction and erection details of all accessories and related work, foundation calculations and all other pertinent data concerning the construction of the bolted tank.

Should tank shop drawings or calculations need to be corrected and resubmitted, the corrected drawings and/or calculations shall be resubmitted within seven (7) days following the request.

The diameter, finished floor elevation, maximum water surface elevation, shell height and all appurtenances shall be as shown on the shop drawings.

Interior roof support column(s) and rafters will be permitted. A concrete spread footing shall be designed and constructed to support the load from the interior roof column(s) in accordance with American Concrete Institute and the California Building Code, latest editions.

G7-03 SITE GRADING

Site clearing and grading shall comply with the requirements of Section G-2, Earthwork.

G7-04 FOUNDATION

G7-04.1 FOUNDATION PAD

The foundation pad shall consist of a 6-inch minimum layer $\frac{3}{4}$ " angular drain rock. There shall be a layer of filter fabric between the underlying material and the drain rock. The drain rock shall be consolidated using a vibratory plate compactor.

The foundation pad shall be crowned in the center and slope 1-inch in 10 feet to the outside periphery.

G7-04.2 FOUNDATION BEARING PAD

A bearing pad shall be installed on the concrete foundation ring and the foundation pad as shown on the Drawings. The bearing pad shall consist of asphalt impregnated Fibre Expansion Joint as manufactured by W.R. Meadows or approved equal.

G7-05 TANK APPURTENANCES

The tank shall be equipped with the accessories as shown on the Drawings. All appurtenances shall conform to the current revision of AWWA D103 in addition to being as shown on the Drawings.

G7-05.1 TANK LADDER AND HAND RAILING

Tank ladders and hand railing shall meet all applicable safety regulations federal, state and local, including but not limited to OSHA and CalOSHA. The ladder shall be as shown on the Drawings. Bolts and nuts to assemble the interior ladder shall be polyencapsulated. The location of the ladder and hand railing shall be selected by the Owner in review of the shop drawings.

The ends of the radial hand railing shall have a stainless steel chain connected between them with clips on each end to connect to the hand rail posts.

G7-05.2 ROOF VENTS

Roof vents shall have a minimum interior neck diameter of 11-5/8", the screening shall be stainless steel 24 mesh, the screening shall be supported on both sides with stainless steel expanded metal, the vent cover shall be manufactured out of spun aluminum or fiber reinforced plastic (FRP) and shall not allow rain water to enter the tank, the vent necks shall extend a minimum of 12" above the tank roof.

G7-05.3 FLUSH CLEAN OUT

The flush clean out shall allow access into the tank when the cover is removed. The clear opening dimensions shall be 24" X 48".

G7-05.4 LIQUID LEVEL INDICATOR

The liquid level indicator shall be a full height or as noted on the Drawings. The liquid level indicator shall have 316 stainless steel or aluminum sheave elbows and cable piping. All other

parts shall be 316 stainless steel, aluminum or galvanized steel. The liquid level indicator shall be model 6700SS as manufactured by Varec Inc. or approved equal. The indicator shall be fully visible from the roadway.

G7-05.5 INLET AND OUTLET PIPING

Inlet and outlet piping shall be welded steel piping lined and coated with fusion bonded epoxy. The epoxy coating shall be in conformance with AWWA C213. Welding shall be in conformance with AWWA D103. The finished coating color of the piping and fittings on the exterior of the tank shall match the color of the tank shell exterior.

G7-05.6 OVERFLOW PIPING

Overflow piping shall be welded steel piping lined and coated with fusion bonded epoxy. The epoxy coating shall be in conformance with AWWA C213. The finished coating color of the piping on the exterior of the tank shall match the color of the tank shell exterior. The overflow piping shall be located as shown on the drawings.

G7-06 MATERIALS SPECIFICATIONS

G7-06.1 TANK STRUCTURE

The materials, design, fabrication, erection and testing of the bolted steel tank shall conform to AWWA D103, latest revision. In addition the requirements herein shall also be met.

G7-06.2 BOLTS

Bolts used in tank joints shall be a minimum of ½-inch diameter. All bolts, nuts and washers shall be hot dip galvanized to ASTM 153. Stainless steel hardware shall be isolated from steel components through the use of non-metal sleeves and washers designed for that purpose.

Polycapped bolt heads and encapsulated nuts shall be used in the tank interior for additional corrosion protection where the fastening component is hot dip galvanized.

G7-06.3 GASKETS/SEALANT

Gaskets and sealants shall be tested and certified for potable water contact in accordance with NSF/ANSI standard 61 and shall be in accordance with ANSI/AWWA D103 Latest revision.

G7-07 COATING

G7-07.1 GENERAL

In general, all metal surfaces of the tank shall be coated. In no case shall metal or any other surface requiring protection be left uncoated, even though not specifically defined herein.

All cutting and welding of the tank surfaces shall be completed before coating. No cutting or welding shall be performed on shop coated surfaces in the field. All tank penetrations shall be shop prepared and coated including the 5-inch access openings, or hand holes, for the cathodic protection system. Tank accessories including the hand-hole covers for the cathodic protection system shall be shop coated per this specification.

Without limiting the general aspects and other requirements of these Specifications, all surface preparation, coating and painting of surfaces shall conform to the applicable requirements of the National Association of Corrosion Engineers, the Steel Structures Painting Council, ANSI/AWWA D103 and the Manufacturer's printed instructions. The Engineer's decision shall be final as to interpretation and/or conflict between any of the reference Specifications and Standards contained herein.

Coating and paint application shall conform to the requirements of AWWA D103 latest edition Section 12.4 Glass Coatings or Section 12.6 Thermoset Powder Coatings, as applicable and modified herein.

The interior coating and the underside of the floor shall be an NSF 61 certified coating.

Coating thickness restriction level shall be Level 2 as specified in Table 1 of SSPC-PA 2.

G7-07.2 TANK COLOR

The Owner shall select colors for the project. Contractor shall submit a current Manufacturer's color chart to Engineer thirty (30) days prior to start of coating and painting operations. Tank shell, roof, and exterior appurtenance color shall be as directed by the Owner. The preliminary exterior color selection is a dark green generally known as Forest Green or Hunter Green. Final color selection shall occur during shop drawing review.

G7-07.3 GENERAL PREPARATION AND COATING REQUIREMENTS FOR INTERIOR AND EXTERIOR TANK SURFACES

The Contractor shall provide certification that the steel tank materials were properly cleaned, sand blasted, primed and coated according to the requirements of these specifications. Any damage to the factory coated surfaces caused by transportation shall be repaired at the Contractor's expense using the coating manufacturer's recommended procedures prior to placement. The Owner and Engineer shall have access to the shop during all sand blasting, cleaning and shop priming, intermediate and final coating operations. The Contractor shall notify the Engineer of the shop location, and work schedule a minimum of one week in advance of the commencement of shop sand blasting, cleaning, priming, and intermediate and final coating operations.

G7-07.4 COATING APPLICATION

It is imperative that the Coating Manufacturer's recommendations be strictly followed. Any deviation from printed literature must be approved in writing by the Manufacturer prior to starting alternative procedures.

Each application of coating or paint shall be applied evenly, free of sags and runs, with no evidence of poor workmanship. Finished surfaces shall be free from defects or blemishes.

Where dry film thickness is specified, "total dry film thickness" (DFT) is considered to be a minimum according to SSPC-PA 2 Level 2 restrictions. Maximum DFT will be according to the manufacturer's printed recommendations.

If the Contractor applies any coatings for which the Manufacturer's volatile organic compound levels have not been submitted, or if coatings that have been modified or thinned to such a degree as to cause them to exceed established VOC levels are applied, Contractor shall be responsible for any fines, costs, remedies, or legal action that may result.

The Contractor's coating and painting equipment shall be designed for application of materials specified and shall be maintained in first class working condition. Compressors shall have suitable traps and filters to remove water and oils from air.

All metal plates, supports, members, and miscellaneous parts, except bolts, certain accessories, and appurtenances, shall be factory coated in accordance with the provisions of these specifications. Field coating, except for touch-up will not be permitted. As indicated in the Drawings, certain tank accessories shall be fusion bonded epoxy lined and coated.

G7-07.5 FACTORY COATING INSPECTION

The thickness of the final finished coating on metal surfaces shall be checked with a non-destructive type thickness gauge, prior to shipment of the tank. Five spot measurements shall be taken on each surface of all coated tank parts. Each measurement must exceed the minimum thickness. A certified inspection report containing all thicknesses measured, including spots showing deficiencies and retests of deficient areas after corrective actions have been taken, shall be provided to the Engineer prior to shipment of the tank. Any deficiencies discovered in the thickness of the coating shall be corrected, at the expense of the contractor, prior to shipment and re-measurement shall be recorded in the certified inspection report.

The finish coating on all surfaces shall be completed without defects permitting moisture penetration when tested according to the low voltage, wet sponge method. A certified inspection report containing a notation of all corrected failures, if any, shall be provided to the Engineer prior to shipment of the tank. Deficiencies in the continuity of the coating shall be corrected, at the expense of the Contractor prior to shipment.

G7-08 SHIPMENT

Tank materials are to be placed in racks or on pallets to facilitate transportation to job site. The racks will also prevent scratching by erection crews. Foam or other manufacturer's recommended packing material shall be used between all stacked tank parts and materials to prevent damage during storage and shipping.

G7-09 ERECTION

Field erection of factory-coated bolted steel tanks shall be in strict accordance with the tank manufacturer's recommendations. Particular care shall be exercised in handling and bolting of the tank plates, supports, and members to avoid abrasion or scratching of the coating. Touch-up paint in original manufacturer's containers with MSDS and instructions for application by erection personnel shall be provided. Coating touch-up shall be performed in accordance with tank manufacturer's recommendations. The exterior tank surface shall be thoroughly cleaned prior to acceptance.

The Contractor shall protect the floor from chips and scratches during the erection process.

G7-10 ONSITE COATING INSPECTION

Prior to laying down the floor plates the Contractor shall check the underside of the plates for Holidays and repairs shall be made if any discontinuities are detected.

During erection spot checks of the coating thickness shall be conducted to ensure conformance with the specifications. Any deficiencies discovered in the coating thickness shall be corrected at the Contractor's expense by additional coating applied at the factory, re-cleaning and recoating the part, or by manufacturing and coating a new part. Any thickness correction method used shall be in accordance with the coating manufacturer's recommendations.

Following completion of erection the tank the entire tank shall be cleaned prior to testing.

Following completion of cleaning the tank, the Contractor shall test the joints of the steel bottom using a vacuum apparatus satisfactory to the Engineer. Any leaks disclosed by this test shall be corrected by the erector in accordance with the tank manufacturer's recommendations.

The Contractor shall test the interior coating for discontinuities as described in AWWA D103 Section 12.9, Holiday Testing. All discontinuities shall be marked, repaired in accordance with the manufacturer's recommendations, and retested. No pinholes or other irregularities will be permitted in the final coating. The floor shall be holiday tested during the final inspection and no further access to the tank shall be allowed after an acceptable test of the floor, except to perform disinfection of the tank.

Dry film thickness gauges, vacuum testing equipment and holiday detectors acceptable to the Engineer shall be furnished by the Contractor. The inspection devices shall be in good working condition. The Contractor shall also furnish U.S. Department of Commerce, National Bureau of Standards, certified thickness calibration plates to test accuracy of dry film thickness gauge and certified instrumentation to test accuracy of holiday detectors. Holiday detectors shall not exceed the voltage recommended by the manufacturer of the coating system.

Whenever required by the Owner, the Contractor shall provide additional illumination and temporary ladders and/or scaffolding necessary to access all areas to be inspected. The level of illumination for inspection purposes shall be determined by the Owner. Temporary ladders and scaffolding shall conform to applicable safety requirements and shall be erected when requested by the Engineer to facilitate inspection and be removed by the Contractor to locations requested by the Engineer.

G7-11 DISPOSAL OF WASH WATER

The Contractor is responsible to collect and legally dispose offsite all wash water including water produced during wash down of the tank interiors for disinfection, high pressure washing the tank exteriors, draining any water from the tanks and general cleaning of the tank and tank site. Disposal shall be in compliance with all applicable water quality regulations and shall be performed in a manner satisfactory to and at the approval of the Owner. All disinfectant solutions and chlorinated water shall be neutralized before discharge. The Contractor shall submit to the Engineer a plan for collecting and properly disposing of all wash water. The Contractor shall not perform any cleaning using water until the plan is submitted and accepted in writing. The approval of the Owner and the

Engineer does not relieve the Contractor of the responsibility of adhering to all applicable laws regarding discharge of water to disposal areas or waterways.

G7-12 DISINFECTION AND BACTERIAL TESTING

Upon completion of tank erection and coatings testing, all interior surfaces shall be cleaned prior to starting the disinfection procedure. Cleaning shall be complete and thorough with all water, dirt and foreign material accumulated during the cleaning operation discharged from the tank or otherwise removed.

The legal disposal of wash down water and chlorinated dosing water shall be the responsibility of the Contractor and shall be performed according to Section 7-11.

Disinfection shall be accomplished according to AWWA C652 latest edition. The Contractor shall submit a description of the proposed disinfection procedure including the type of disinfectant and the calculations of disinfectant quantities to satisfy: 1) AWWA C652 and 2) acceptable chlorine residuals after the tank is full.

After the tank is filled to the overflow, the water sits for 24 hours and the chlorine residual is 1 PPM or less, samples shall be collected for bacteriological testing by the Contractor in the presence of the Engineer or other Owner representative. The Owner will deliver the samples collected by the Contractor to a State-certified laboratory located within the County selected by the Contractor for testing. A second test sample shall be taken and tested for bacteria in like manner 24 hours after the first sample has been taken. If the bacteriological test results are unsatisfactory, additional disinfection procedures approved by the Engineer shall be performed at the Contractor's expense until satisfactory results are obtained. Satisfactory results must be obtained from two consecutive test samples separated by 24 hours. Disposal of test water, if required, shall be the responsibility of the Contractor.

The tank shall be filled in such a manner that the water system is completely protected from contamination via backflow. Filling the water tank to overflow will require a reduced pressure back flow preventer and a pump provided and operated by the contractor. It is the responsibility of the Contractor to de-chlorinate all water discharged from the overflow piping during the disinfection process. The tank shall pass all required testing before being connected to the existing system.

G7-13 VOLATILE ORGANIC COMPOUND TESTING

Volatile organic compound (VOC) testing shall be done if any coatings have been applied to the interior of the tank within 2 weeks of the disinfection process, or if, at the sole discretion of the Owner, there is concern about the presence of VOC's in the tank. In some situations, the Contractor may find it necessary to extend coating cure times beyond manufacturer's recommendations in order to achieve satisfactory VOC action levels due to temperatures or humidity conditions at the project site.

The VOC test sample shall be collected by the Contractor in the presence of the Owner's representative, after the tank has been full for at least 7 days. The Owner will deliver the samples collected by the Contractor to a State-certified laboratory located within the County selected by the Contractor for testing. Testing shall be done in accordance with State Water Resources Control

Board Division of Drinking Water (DDW) guidelines set forth in “Collection, Pretreatment, Storage, and Transportation of Water and Wastewater Samples”, the most current version. The cost of all testing shall be borne by the Contractor and shall be included in the price of the various bid items and no additional compensation will be made therefore.

If the test results are satisfactory, the tank may be placed into service without replacing the water. If the test results reveal unacceptable levels of VOC’s or other contaminants, the tank shall be drained, flushed, refilled and retested at a minimum. Other corrective action may be required. The costs of remedial actions, water disposal, flushing or other cleaning, refilling the tank and retesting shall be borne exclusively by the Contractor.

Disposal of liquids drained from the tank shall be the responsibility of the Contractor. The Contractor shall submit a discharge plan to the North Coast Regional Water Quality Control Board for approval. Do not discharge until submitted discharge plan is approved.

G7-14 CLEANLINESS

The Contractor and all workmen employed by him shall conduct all operations in a sanitary manner. The Contractor shall be responsible for maintaining the tanks in a highly clean and sanitary condition and any exception will result in the Engineer's refusal to accept the tank.

The collection and disposal of all water shall be in accordance with Section G7-11.

G7-15 SITE RESTORATION

Upon completion of the work, the Contractor shall remove all staging, scaffolding, abrasives, containers, etc., from the work site in a manner approved by the Engineer.

Coating, paint spots and/or oil stains upon adjacent surfaces shall be removed and the job site cleaned. All damage to surfaces and/or landscaping resulting from work in this section shall be cleaned, repaired, or refinished to the satisfaction of the Engineer, at no cost to the Owner.

G7-16 WARRANTY INSPECTION

The Owner will, at its option, perform a warranty inspection as outlined in AWWA D102, Section 5.2 within 12 months following completion and acceptance of the project. The Owner shall establish a date for the inspection and notify the Contractor thirty (30) days in advance. The Contractor and coatings subcontractor are required to attend this inspection. The Owner will contract with a tank diving contractor to perform the tank interior inspection. The tank interior inspection contract with the Owner will not include any repair work that may be required. The Contractor shall prepare and submit a report of the inspection and repairs for the Owner as outlined in Section 5.2.4.

Any work found to be defective under AWWA D102, Section 5.2.3 shall be repaired in accordance with the manufacturer's recommendations, this specification and to the satisfaction of the Engineer. Repair of the tank shall be at the Owner's convenience and shall be performed within the time period designated by the Owner. Any repairs necessary shall be warranted for an additional twelve (12) months. If tank interior repair is required, the Contractor shall contract separately with a tank diving subcontractor to perform the repairs underwater at the Contractor’s sole expense.

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SECTION G-8 ELECTRICAL

G8-01 SCOPE OF WORK

This Specification describes the general requirements for the handling, mounting, conduit, inspection and testing of the conduit systems for the Project. These specifications support electrical materials and methods shown on the Drawings. Principal features of this scope of work include:

1. Installation of conduit system

The electrical equipment installed in these facilities include, but are not limited to underground conduits as shown on the Drawings and described herein.

Furnish and install a tested and working conduit system, as indicated on the Drawings and as specified. System includes all items not specifically mentioned in these Specifications or indicated on the Drawings or accepted shop drawings, but which are necessary to make a complete working installation, and shall be deemed to be included herein.

G8-02 GENERAL

The Contractor shall install the conduit and appurtenances as shown on the Drawings. Notification of the Owner regarding conflicts with specification details or site conditions are the responsibility of the Contractor.

The Contractor shall comply with the "Submittals" section of these specifications.

The Contractor shall do no work without shop drawings and specifications stamped "No Exceptions Taken" or "Revise as Noted". Where the Contractor proposes to deviate from the Drawings or specifications, he must have approval in writing from the Owner before commencing the work. Items which require Owner written approval or agreement include, but are not necessarily limited to, the following:

Deviations from Owner approved design. Use of material or equipment as equal to a specified manufacturer or model is prohibited without prior written approval of the Owner or Owner's representative.

The Contractor shall supply all labor, materials, consumable supplies, utilities, tools, test conduit and other items required to complete the work outlined in this Specification. The Owner has the right to reject any tools or equipment which it feels are inadequate or inappropriate for the application.

The Contractor shall be responsible for filing all necessary applications for work permits and inspections as may be required by local codes, regulations and authorities.

The Contractor shall be responsible to ensure that this specification is followed by all Sub-Contractors.

The Drawings are intended to be diagrammatic. The Contractor shall familiarize himself with all of the Drawings in order to prevent interferences between electrical conduits and equipment, piping, and structures. The Contractor shall be responsible for resolving any conflicts, and interference problem with a minimum of offsets, fittings and space.

One complete set of “as-built” drawing prints shall be maintained exclusively for record purposes. “Red-line” modifications shall be updated daily. All changes, modifications, and additions shall be shown and noted thereon. This set of “as-built” prints shall be given to Owner upon completion of the electrical work prior to acceptance.

G8-02.1 INSPECTION OF THE SITE AND EXISTING CONDITIONS

Prior to submitting a bid, Contractor is required to visit the site and determine existing conditions at the site and all existing structures to become familiar with existing conditions and electrical systems which may, in any manner, affect the work required under this Contract.

The Contractor shall carry out any work involving shutdown of the existing services to any piece of equipment now functioning in existing areas at such time as to provide the least amount of inconvenience to the Owner. The Contractor shall do such work when directed by the Owner or their representative.

After award of the Contract, the CONTRACTOR shall confer with the Owner to verify, at each stage of construction activity, the location(s) of existing utility facilities. The Contractor shall protect all existing underground utilities during construction. The Contractor shall pay for all required repairs for damage inflicted during construction without increase in Contract cost.

G8-03 MATERIALS

Unless otherwise indicated, provide all first quality, new materials, free from any defects, in first class condition, and suitable for the space provided. Provide materials and equipment listed by UL wherever standards have been established by that agency.

Unless otherwise indicated, provide materials and equipment, which are the standard products of manufacturers regularly engaged in the production of such material and equipment.

Where two or more units of the same class of material or equipment are required, provide products of a single manufacturer.

G8-03.1 CONDUIT

Conduits shall be installed in the trade sizes and materials shown on the Drawings.

Exposed conduit and conduit used to transition from buried to exposed shall be Rigid Galvanized Steel Conduit (RGS) and shall bear the label of UL. During construction, all conduits shall be kept dry and free from water or debris with approved pipe caps or plugs. Unless specifically required and parallel to a water pipe, conduit shall not be surface mounted on the floor unless the concrete slab has a recessed trench with covered grate.

All underground and concrete embedded conduits shall be PVC Schedule 80 Carlon, Kraloy, or equal with standard sweep and fittings suitable for underground service and shall bear the label of UL. Manufacturer's instructions shall be followed for sealing joints. Underground conduits shall be placed not less than 24" below grade. The conduit shall be encased in four inches of PG&E sand. Stub-ups of all nonmetallic conduits shall be RGS. Installation shall conform to details for specific runs as shown on the Drawings. Transition(s) from buried PVC conduit to above-grade RGS shall be made a minimum of three linear feet prior to penetrating upward through grade. Exceptions require Owner/Engineer approval. Where buried or encased in concrete, RGS conduits shall be wrapped with two layers of 10 mil waterproofing tape. Tape shall be 3M Scotchrap™ Type 51 or approved equivalent.

Additional requirements for conduit include:

1. All threaded joints shall have conductive thread sealant liberally applied. Contractor shall use Thomas & Betts Kopr-Shield™ or approved equivalent.
2. Conduit bodies and boxes shall be sized for the application, and shall bear the label of UL. All conduit bodies shall be of malleable iron construction, and neoprene gaskets shall be installed between the body and cover. Paper gaskets are not permitted.
3. General: Wherever conduits terminate in sheet steel boxes, cast hubs shall be used to form the conduit connection to the box. All bushings shall be insulated metallic type, equal to O-Z Gedney, Type B; T & B Company, 1200 Series; Appleton Electric Company, Type BU-I; or equal.
4. Flexible Connections: Use short lengths (maximum of 2 ft.) of flexible metal conduit for connections to motors, equipment subject to vibration, noise transmission, or movement and shall include a built-in, continuous copper ground conductor and terminating fittings suitable to assure adequate bonding connection to conduit.

G8-03.2 UNDERGROUND SYSTEMS

The Contractor shall furnish all materials and labor, tools, plant, and equipment required to furnish and install a complete underground system of ducts, manholes, and hand-holes, all as required by the contract documents and required by the work to be done.

Underground systems shall meet the following specifications:

1. Marker tape installed over all direct burial cables, conduits, and duct banks shall be six (6") inches in width and 8 mil thick, and shall be Terra Tape "D" non-detectable as manufactured by Reef Industries or approved equal. The tape shall be a lamination of two plies of three ply blown film producing a bi-axially orient six ply structure. The color of the tape shall be bright red with the following imprints: "CAUTION! BURIED ELECTRIC LINE BELOW!" (for ductbanks with electric cables) The ink and material shall be chemically inert such that acids, alkalies and other destructive substances found in soil shall not degrade the tape.
2. Conduit shall have bell ends and shall be as manufactured by Carlon or approved equal.

G8-04 EXECUTION

Install materials in workmanlike manner utilizing craftsmen skilled in the particular trade. Provide work, which has a neat and finished appearance.

Coordinate electrical work with Owner and work of other trades to avoid conflicts, errors, delays and unnecessary interference with operation of the facility during construction.

Follow manufacturer's installation instructions explicitly, unless otherwise indicated. Keep copy of manufacturer's installation instructions on the job site available for review at all times.

Provide protection for material against loss and damage. Items to be stored prior to installation shall be placed in a clean, dry indoor location. Following installation, protect materials and equipment from corrosion and physical damage.

Where existing materials and equipment are removed or relocated, remove all materials no longer used such as straps, conduits and wires. Repair affected areas to conform to the type, quality and finish off the surrounding surface in a neat and workmanlike manner.

Keep the premises free from accumulation of waste material and rubbish. Upon completion of work, remove all materials, scraps and debris from premises and from interior and exterior of all devices and equipment.

G8-05 WORK SCHEDULE

Upon the award of the contract, the work on the project is to proceed during regular working hours without delays and without intentional interruptions because of other projects.

The Contractor shall assign a construction supervisor to conduct and coordinate all installation activities.

Continuous monitoring is to be made of the progress. Deviations, if any, are to be reported immediately to Owner.

G8-06 TESTING AND INSPECTION

Prior to testing or energizing any equipment, the Contractor shall thoroughly vacuum clean the equipment with an industrial type vacuum cleaner. Any sheet metal parts shall be thoroughly cleaned with degreaser to remove any oil deposited during fabrication or installation. The outside of all electrical equipment shall be cleaned and touched up with vendor-supplied touch-up paint, in order to leave the equipment in an "as-purchased" condition

Immediately prior to pulling conductors, the Contractor shall demonstrate the integrity of all buried PVC conduits. The following procedure shall be followed for all buried conduits, including spares:

1. The Contractor shall draw a mandrel of the appropriate trade size through all underground conduits to demonstrate physical integrity of the conduit network. A 12" mandrel shall be utilized for integrity testing. Where small radius sweeps are used, a 6"

mandrel is permitted. The mandrel shall be manufactured by Greenlee or approved equivalent.

2. A sponge or other conduit cleaning device shall be drawn behind the mandrel to remove any dirt or debris from the conduit.
3. In the event that the mandrel cannot pass through the length of the conduit, the Contractor shall locate the damaged section, repair the pipe, and re-perform the test.
4. Pull ropes shall be installed in all conduits, including spares. All spares shall be capped to prevent ingress of dirt or debris.

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SECTION G-9 BOLTED STEEL TANK CATHODIC PROTECTION SYSTEM

G9-01 GENERAL

A sacrificial anode cathodic protection system to provide corrosion control for the interior submerged surface of the each specified tank shall be designed and installed. The cathodic protection system shall be in accordance with AWWA Standard D106, latest edition and features included in this specification. The tanks to be protected are bolted steel tanks in accordance with AWWA Standard D103 and Section G-8 herein. All penetrations and conduit routing required shall be coordinated with the tank design. All components in contact with the water shall be certified and listed by an accredited laboratory to be in accordance with NSF-61 for contact with potable water.

G9-02 DESIGN

A Corrosion Specialist accredited by the National Association of Corrosion Engineers International as a Senior Corrosion Technologist, Corrosion Specialist or Cathodic Protection Specialist and experienced in the design of cathodic protection for water storage tanks shall lead the design and installation effort. The Corrosion Specialist shall select the components to meet the requirements herein and provide a system layout using selected components will that function in accordance with the performance requirements. The system shall provide effective corrosion control in accordance with the protection criteria. The protection criteria shall be based on a tank-to-water potential, within a range of -0.850 volts to -1.050 volts relative to a stationary copper-copper sulfate reference electrode. This potential shall be measured free of the effect of voltage gradients (IR drop).

The Corrosion Specialist shall also base system capacity and performance on:

1. Total submerged surface area of the tank.
2. Type of coating and condition of coating.
3. Total bare surface area to be protected (minimum of 25% of total surface area.)
4. Minimum current density of 1 mA/ft.2 bare surface area.
5. Chemical analysis of water including resistivity expressed in ohm-cm.
6. Susceptibility of tank to icing conditions.
7. Minimum anode design life of twenty (20) years.
8. Selection, dimensions, and layout of system components specified in Section G-8 of this specification.

G9-03 SYSTEM COMPONENTS

All materials in contact with the water or exposed to the interior of the tank shall be certified to be in accordance with ANSI/NSF 61 "Drinking Water System Components" per California State CCR Title 22 / 64591. This requirement shall be met under testing conducted by a product certification organization accredited for this purpose by the American National Standards Institute. Contractor shall submit a copy of the certification for all materials exposed to the interior of the tank.

G9-03.1 CONTROL BOX

The control box shall perform in accordance with ANSI/AWWA Standard D106 Sacrificial Anode Cathodic Protection System control standards. The control box shall have two sections that are labeled with phenolic labels, Sacrificial Anode Control and Reference Cell Monitoring. The control box shall be in a NEMA 4 box mounted to the foundation near the ladder. The Sacrificial Anode Control section shall include the following:

1. Current adjusting rheostat rated at 100 ohm/50 watts
2. Sacrificial Current on off switch.
3. Anode metering shunt 0.1 ohm, minimum 6 amp capacity 1% accuracy
4. Solderless terminal lugs for the anode and the structure

The Reference Cell Monitoring section shall include the following:

1. 3.5" Digital LCD display
2. Selection switch to display either the tank-to-water polarized (instant-off) potential or the anode current output measurements.
3. 9 volt battery for operation.
4. Solderless terminal lugs for the reference cell and the structure.

G9-03.2 LONG LIFE REFERENCE ELECTRODES

The permanent reference electrode shall consist of a copper/copper sulfate electrode with a potential drift of less than 10mV while continuously immersed in water for a minimum of 10 years. The reference electrode to lead wire connection shall be encapsulated to prevent water migration with not less than AWG NO. 14 HMW-PE lead wire. The stationary reference electrode shall be positioned within the tank to provide the most representative measurements for the submerged surface area. The reference electrode shall be suspended from the roof similarly to the vertical anodes. The reference electrode shall have a polypropylene bumper installed on it.

G9-03.3 VERTICAL ANODE SUSPENSION SYSTEM

The anodes shall be suspended vertically from the roof of the tank. Handholes and mounting devices shall be provided so the anodes may be replaced or inspected without entering the tank. The handholes shall be a 5" diameter hole through the roof of the tank. The handhole shall have a cover consisting of a 6" diameter 316 steel disk (Coated to match the roof), rubber gasket and 1"x7-1/2"x1/4" 316 stainless steel bar threaded for a 1/2" bolt. The bolt shall be 316 stainless steel. The steel disk and the rubber gasket shall have a 9/16" hole drilled in the center. The anodes and header wire shall be suspended by a clevis and pin insulator bolted through the roof 4" from the center of the handhole radial to the roof. All bolts through the roof shall have rubber backed washers.

G9-03.4 ANODE MATERIALS

The anode materials shall be selected in accordance with Design (Section G9-02) and shall be in accordance with AWWA D106.

G9-03.5 WIRING

All wiring within the tank shall be insulated to prevent copper conductor to water contact. All wiring on the exterior of the tank shall be insulated and run in rigid conduit. All splices shall be within 9" of the roof. The splices shall be mechanically secure, electrically conductive and sealed to prevent moisture penetration.

G9-03.6 HARDWARE

All hardware used in conjunction with the system shall be protected against corrosion.

G9-04 SUBMITTALS

The cathodic protection constructor shall submit the following information for approval by the Owner or his representative.

1. Drawings showing system design calculations/configuration.
2. Description of system components.
3. Copy of ANSI/NSF 61 classification for all system components located within the tank.
4. Design calculations for required voltage, amperage & life expectancy.

G9-05 WORKMANSHIP AND INSTALLATION

G9-05.1 QUALIFICATIONS

The cathodic protection constructor shall have at least five (5) years' experience installing and servicing the types of systems described in this specification. The system shall be installed by personnel specifically trained by the constructor to provide all workmanship required for corrosion control performance.

G9-05.2 PERFORMANCE

All work shall be in accordance with the following requirements:

1. Components of the cathodic protection system shall be installed in the manner and at the locations as shown on the design Drawings and modifications prepared by the Corrosion Specialist.
2. The handholes shall be cut in the tank roof prior to coating. The locations shall be coordinated with the tank manufacturer prior to tank coating.
3. No cutting or welding shall be performed on coated surfaces in the field. All tank penetrations shall be shop prepared and coated including the 5-inch access openings, or hand holes, for the cathodic protection system.
4. Tank accessories including the hand-hole covers for the cathodic protection system shall be shop coated per Section G-8 of these specifications.
5. Contractor shall verify the electrical continuity of all sections of the tank before filling the tank and installation of the cathodic protection system.
6. Materials and equipment shall be inspected prior to installation. Any defective component shall be repaired or replaced.
7. Electrical work shall be in accordance with the National Electrical Code.
8. Lead wires shall be installed to prevent damage from abrasion.

9. Electrical connections within the tank shall be sealed to prevent water migration. Splices shall be made with a properly sized split bolt or crimp connector and shall be wrapped with at least two layers of half lapped rubber electrical tape and two layers of half lapped
10. The control box shall be mounted at a convenient height (eye level) above grade for monitoring and service purposes.
11. Work provided by the constructor shall be completed in a clean and safe manner

G9-06 ENERGIZING THE SYSTEM

After the system is installed and the tank is filled, the cathodic protection constructor shall provide start-up service which includes energizing, testing, and adjusting the system for optimum performance of the cathodic protection system. This start-up service shall be in performed in accordance with ANSI/AWWA D106 Section 5.2 Testing. This start-up service shall be coordinated with the Owner or his representative. All tank-to-water potential measurements shall be conducted with a calibrated portable copper-copper sulfate reference electrode and a portable high impedance voltmeter. A minimum of five (5) locations shall be measured. All test data shall be reviewed and evaluated by the Corrosion Specialist. Test data shall be recorded and submitted to the owner. In addition to the start-up service, "as-built" drawings and a maintenance manual shall be submitted to the owner. The system will then be de-energized. The final commissioning of the system will occur approximately twelve (12) months after the start-up service. At that time final testing and adjustment of the system shall be conducted.

G9-07 GUARANTEE

All workmanship, equipment, and materials furnished by the cathodic protection constructor shall be guaranteed for one (1) year after the final system commissioning.

SECTION G-10 SHED

1-01 SCOPE OF WORK

The Contractor shall provide and install a pre-fabricated storage shed, as shown on the Drawings and to meet the following specifications and coordinate with the District to move the electrical equipment mounted on the existing shed prior to demolition of the existing shed to a temporary location and to the new shed after construction:

Feature	Specification
Length and width	6' x 8'
Interior clear sidewall height	8'
Roof pitch	5/12
Floor.	Slab on Grade.
Wall framing	2"x4" spaced 16" on center. Bottom plates shall be 2x6 ground contact rated pressure treated douglas fir.
Double top plates	All walls
Siding	Premium Siding w/ 50-Year Manufacturer's Warranty
Trim	4" and 6" - 50 Year Limited Warranty Smart Trim
Eaves	6" box w/ 4" and 6" fascia on sidewalls and endwalls
Rafters and trusses connections	Steel plates
Roof decking	5/8" TechShield Radiant Barrier Roof Decking
Felt paper	15#
Roofing	Forest Green Metal Roof
Drip edge	White baked enamel entire roof perimeter
Vents	In peaks
Doors	(1) 4' Door with vertical transoms.
Door handle	6" patented keyed, locking
Windows	(1) 2' x 3' sliding window (2) Tempered transom windows 16" wide by 8" tall.
Colors	"Night Watch" body, "Night Watch" trim.
Warranty	10-year

Shed shall be designed to be set on a 6" thick reinforced concrete slab. The slab shall be 6" thick with #4 reinforcing bars at 12" on center. The slab shall be on a class 2 gravel pad 1.5' thick extending a minimum of 2' beyond building compacted to 95 percent relative compaction. Scarify and recompact the upper 6" of subgrade to 95 percent relative compaction before placing base rock.

Shed shall be anchored to the slab using 3/8" heavy duty screw anchors manufactured of stainless steel. The anchors shall be 5" long penetrating at least 3" into the concrete. The anchors shall be Titen HD THD37500H6SS as manufactured by Simpson Strong-tie or approved equal.

The anchors shall be a minimum of 3" from the edge of the slab. The anchors shall be spaced at approximately 2 feet on center. Installation shall be in accordance with the manufacturer's recommendations.

Shed shall be a 6'x 8' Premier Pro-Ranch as manufactured by Tuff Shed, or approved equal.

SECTION G-11 MISCELLANEOUS METAL

G11-01 SCOPE

The work covered by this section of the specifications consists of furnishing all plant, labor, equipment, appliances and materials, and in performing all operations in connection with the installation of miscellaneous metal work, complete in accordance with the Drawings and as specified herein.

G11-02 GENERAL

Shop drawings of miscellaneous metal work shall be submitted by the Contractor as previously specified. See Section G1-10 for shop drawing requirements.

Metals shall be free from defects impairing strength, durability and appearance and be of the best commercial quality for the purpose specified.

All exposed fasteners shall be made of the same material, color and finish as the metal to which applied unless otherwise shown.

G11-03 MISCELLANEOUS SHAPES, PLATES AND BARS

All miscellaneous carbon steel metal shapes, plates and bars shall be made from ASTM A36 "Specifications for Structural Steel" steel or as specified elsewhere in the specifications or Drawings.

All miscellaneous stainless steel metal shapes, plates and bars shall be made from ASTM Type A316 stainless steel or as specified elsewhere in the specifications or Drawings.

The Contractor shall provide and install all miscellaneous shapes, plates, and bars including connections complete as shown on the Drawings and as specified herein.

The Contractor shall fabricate from metal shapes, provide holes for proper installation, and set accurately in place all miscellaneous metal work, complete as shown on the Drawings and as specified herein.

The Contractor shall furnish and install additional miscellaneous braces, clips, connections etc., as may be required to provide a stable, rigid installation.

G11-04 BOLTS, NUTS AND ANCHORS

G11-04.1 GENERAL

All bolts, nuts and anchors shall be of adequate size and length for their intended use.

All bolts shall be standard Hex head with cold pressed nuts and locking washers or cut washers.

The length of all bolts and anchors shall be such that after joints are made up, the bolt protrudes through the nut one-eighth (1/8) to one half (1/2) inch. Bolts protruding through the nut more than one-half (1/2) inch shall be cut back with a hacksaw and ground smooth.

All stainless steel bolts and nuts shall be installed using anti-seize compound. NSF61 certified compound shall be used in all locations where there is potable water contact.

G11-04.2 MATERIALS

Carbon steel bolts shall be ASTM A307 Grade B. Nuts shall be ASTM A563 Grade A Hex style.

All carbon steel fasteners shall be zinc coated by the hot dip process in accordance with the requirements of ASTM Specification A153 Class C.

Nonheaded anchor bolts, either bent or straight to be used for structural anchorage purposes, unless otherwise indicated on the Drawings, shall be hot-dipped galvanized and conform to the requirements of ASTM Specification A36. Nuts shall be ASTM A563 Grade A.

All stainless steel bolts including anchor bolts shall be ASTM A320 Grade B8M (AISI Type 316). Nuts shall be austenitic alloy nuts conforming to ASTM A194 Grade 8M.

G11-04.3 EPOXY-TYPE ANCHORS

Epoxy-type anchors are those that require an adhesive to embed all grades of threaded rod, reinforcing rod, and other inserts as identified in the plans or other notations.

A. Epoxy Adhesive:

1. Two component, 100% solids (containing no solvents), non-sag paste, insensitive to moisture, gray in color.
2. Meets ASTM C881-90, Type IV, Grade 3, Class - B, and C with the exception of gel time.
3. Shrinkage during cure per ASTM D2566: 0.00051 in./in. maximum.
4. Compressive strength, ASTM D695: 10,300 psi minimum.
5. Shelf life: 2 years minimum.
6. Water solubility: None.
7. Heat deflection temperature, ASTM D648: 140 degrees F minimum.
8. Meets NSF Standard 61 for use in conjunction with drinking water systems (only where there is the potential for potable water contact).

B. Packaging:

1. Disposable, self-contained cartridge system capable of dispensing both epoxy components in the proper mixing ratio.
2. Epoxy components dispensed through a static mixing nozzle that thoroughly mixes the material, and places the epoxy at the base of the pre-drilled hole.

3. Cartridge marking: Include manufacturer's name, batch number and dating, mix ratio by volume, ANSI hazard classification, and appropriate ANSI handling precautions.
4. Each cartridge supplied with a chart indicating the color of the material when the correct mixing ratio is achieved.

C. Manufacturer's Service:

1. Conduct job-site training of Contractor's personnel for safe and proper installation, handling, and storage of the Epoxy System. Schedule training and notify the Engineer of the time and place of the sessions.

The Epoxy anchor system shall be the Epcon System, Ceramic 6 Epoxy as manufactured by ITW Ramset/Red Head, SET anchoring adhesive as manufactured by Simpson Strong Tie or approved equal.

G11-05 FABRICATION

Insofar as possible, the work shall be fitted and shop assembled, ready for erection. Work shall be executed in strict accordance with Drawings, details and approved shop drawings.

Shop and field connections shall be bolted or welded, as required.

Jointing and intersection of metals shall be accurately made, tightly fitted and made in true planes, with adequate fastenings.

Holes and connections shall be made for work of other trades and connection shall be made thereto, unless otherwise indicated or directed by the Engineer.

Welding and welding equipment shall conform to the requirements of the American Welding Society's Code of Welding in Building Construction.

Fabricators and welders shall be licensed operators. Welding shall conform to the best modern practice. All welds shall be of adequate strength and durability, with jointing made tight, flush, in true planes with base metals and shall be clean and ground smooth.

All field welding of steel shall be done by an unvarying arc welding process which excludes the atmosphere during the process of deposition and while the metal is in a molten state. The type and size of electrode used, and the current and voltage required shall in all cases be of common acceptable practice. Reused or otherwise damaged electrodes shall not be used and violation of this provision shall be sufficient cause for rejection of the work. All welds shall be of uniform composition, neat, smooth, full strength, and ductile; shall be free from undercut, porosity and clinker; and shall be made with a technique which will insure uniform distribution of load throughout the welded section with a minimum tendency to produce eccentric stress or distortion of the weld or in the metal adjacent thereto. Welding shall be continuous along the entire line of contact.

Welding of stainless steel shall be performed with electrodes and techniques in accordance with AWS D1.6. All welds shall be full penetration. Welds shall be ground and finished smooth.

G11-06 GALVANIZING

All exposed ferrous metal except stainless steel, including supports, clips, braces, hangers, bolts, washers and nuts shall be fabricated as shown on the approved shop drawings and hot dip galvanized after fabrication in accordance with ASTM A 123 "Spec. for Zinc (Hot-Galvanized) Coatings on Products Fabricated from Rolled, Pressed, Forged Steel Shapes, Plates, Bars, and Strips" and ASTM A 153 "Spec. for Zinc Coating (Hot-Dip) on Iron and Steel Hardware."

Hot dipped galvanizing for parts that come into contact with the water shall be performed by a supplier that is certified to meet NSF standard 61.

G11-07 STRUT

Strut shall be adjustable modular metal framing consisting of channel and fittings. The channel shall be 1-5/8" x 1-5/8" constructed of 12 gauge metal. The material shall be stainless steel. Fittings shall be supplied as required and shall also be stainless steel. The strut shall be Cooper B-Line B22 or approved equal. Should the use of the strut require a different height the channel shall be manufactured from 12 gauge material and be stainless steel. The fittings called out on the drawings shall be Cooper B-Line or approved equal.

G11-07.1 LEVEL TRANSMITTER BOX SUPPORT

Level transmitter box support shall be constructed of strut and a base. The base shall have 4 holes in the base plate for attachment to the foundation and 2 holes on the three sides of the strut attachment channel. All components shall be stainless steel. The base shall be Cooper B-Line B280 or approved equal. The strut shall be in accordance with Section G11-07.

G11-08 PIPE CLAMP

The pipe clamp shall be a two piece heavy duty pipe clamp. The clamp shall be manufactured for the specific pipe diameter being clamped. The clamp shall be hot dipped galvanized after fabrication. The pipe clamp shall be Figure B3142 as manufactured by Cooper B-line or approved equal.

SECTION G-12 PAINTING

G12-01 GENERAL

The work covered by this section of the Specifications consists of furnishing all plant, labor, equipment, appliances, and materials and performing all operations in connection with painting and related finish work on the bollards and fire hydrants.

Bollards and fire hydrants shall be painted yellow. Bollards shall have blue reflective tape.

Above ground piping connecting to the tanks shall be painted to match the tank.

Before start of work, the Contractor shall submit to the Engineer the name and manufacturer of paint materials including material descriptions and literature giving instructions for application and suitability of paint materials for the intended use.

The Contractor shall apply paint only when weather conditions are favorable in regards to air temperature and humidity and substrate temperature as per manufacturer's application instructions. At all times painting is in progress, the Contractor shall have a hygrometer, satisfactory to the Engineer, available on the job for measuring relative humidity and dew point.

Paint materials shall be properly stored in accordance with manufacturer's instructions and protected from moisture, direct sunlight and extreme temperature.

Paint material containers shall have labels bearing manufacturer's name, name and type of material, color name and number. In addition, thinning instructions and application instructions shall be available at the job site.

Painting shall be done at such times that dust-free and neat work can be obtained. All painting shall be done strictly in accordance with the manufacturer's instructions and in a manner satisfactory to the Engineer. All surfaces not being painted shall be protected from drip and splatter by covering or masking. All drip and spatter marks shall be immediately cleaned from adjacent surfaces.

Except where factory application of finish coatings is permitted or required elsewhere in these Specifications, all items of equipment shall be finish-painted after installation. Shop priming will be permitted in all cases. Materials and application as specified herein shall govern regardless of whether coatings are factory-applied or field-applied. After installation, any damaged areas in prime or finish coatings shall be repaired as directed by the Engineer.

G12-02 SURFACE PREPARATION

All surfaces to be painted shall be prepared in a workmanlike manner with the objective of obtaining a clean and dry surface. No painting shall be done before the prepared surfaces are inspected by the Engineer.

All surfaces to be painted shall be prepared in strict conformance with the paint manufacturer's surface preparation requirements. The Contractor shall submit the surface preparation proposed and product data sheets containing the manufacturer's surface preparation requirements.

All ferrous metal to be primed in the shop shall have all rust, dust and scale, as well as all other foreign substances, removed by sandblasting or pickling. Cleaned metal shall be primed or pretreated immediately after cleaning to prevent new rusting. All ferrous metals not primed in the shop shall have all sharp edges, burrs, and weld spatter ground smooth and shall be sandblasted or otherwise cleaned in the field prior to application of the primer, pretreatment or paint. All nonferrous metals, whether to be shop or field primed, shall be solvent cleaned prior to the application of the pretreatment and/or primer. In addition, galvanized surfaces shall be sandblasted or etched to provide a profile or "tooth." Care shall be exercised not to damage adjacent work during sandblasting operations. Blasted surfaces shall not be left overnight before coating.

Wood surfaces shall be thoroughly cleaned and free of all foreign matter, with cracks and nail holes and other defects properly filled and smoothed. Wood trim shall be sandpapered to a fine finish and wiped clean of dust.

G12-03 MATERIALS

All paints and the paint products shall be TNEMEC, Sherwin Williams, or approved equal. Interior and exterior building paints shall be Dunn Edwards, Kelly Moore, or approved equal. No request for substitution will be considered which decreases the film thickness designated and/or the number of coats to be applied, or which offers a change from the generic type of coating specified. Request for substitution shall contain the full name of each product, descriptive literature, including directions for use, its generic type, and its nonvolatile content by volume.

All materials shall be brought to the job site in the original sealed and labeled containers of the paint manufacturer and shall be subject to inspection by the Engineer on the job.

Where thinning is necessary, only the products of the manufacturer furnishing the paint, and for the particular purpose, shall be allowed, and all such thinning shall be done strictly in accordance with the manufacturer's instructions.

G12-04 PAINT APPLICATION

On the first day of any painting, the Contractor shall establish, with the Engineer, a schedule so that all surface preparation may be inspected and approved prior to the application of any coatings for the duration of this project.

The Contractor shall apply each coat of paint at the rate specified by the manufacturer to achieve the minimum dry mil thickness required. If material has thickened and must be diluted, the coating shall be built up to the same film thickness achieved with undiluted material. In other words, one gallon of paint as originally furnished by the manufacturer must not cover a greater square foot area than when applied unthinned. Deficiencies in film thickness shall be corrected by the application of an additional coat(s) of paint. On porous surfaces, it shall be the Contractor's responsibility to achieve a protective and decorative finish either by decreasing the coverage rate or by applying additional coats of paint.

Drying time shall be construed to mean “under normal conditions.” Where conditions are other than normal because of the weather or because painting must be done in confined spaces, longer drying times will be necessary. Additional coats of paint shall not be applied, nor shall units be returned to service until paints are thoroughly dry.

Each succeeding coat of paint shall have a slightly different color to readily distinguish between coats. Paint shall not be applied in extreme heat, in dust, smoke laden air, fog, or damp or humid weather. Particular care shall be taken to obtain a uniform, unbroken coating over all bolts, threads, nuts, welds, edges and corners.

If paint is applied by spray, the air pressure used shall be within the ranges recommended by both the paint and spray equipment manufacturers. Spray painting shall be conducted under controlled conditions, and the Contractor shall be fully responsible for any damage occurring from spray painting.

The Contractor is hereby notified that the Engineer will inspect the project prior to the expiration of the warranty period and all defects in workmanship and materials shall be repaired by the Contractor.

G12-05 PAINT SCHEDULES

Surface	Type of Coating	No. of Coats	Trade Name		Coverage FT2/GAL	DFT. Per Coat
			Sherwin Williams	TNEMEC		
Unprimed Metal	Epoxy	1	Macropoxy 646	Series V69	265	4.0
	Acrylic	2	Sher-Cryl HPA	Series 1029	340	1.75
Galvanized Metal	Epoxy	1	Macropoxy 646	Series 115	265	4.0
	Acrylic	2	Sher-Cryl HPA	Series 1029	340	1.75
Shop Primed Metal	Acrylic	2	Sher-Cryl HPA	Series 1029	340	1.75
Fusion-Bonded Epoxy Coated Metal	Acrylic	1	Sher-Cryl HPA	Series 1095	225-380	3.0-5.0
Bituminous Coated Metal **	Epoxy	1	Macropoxy 646	Series V69-00WH	175-275	4.0-6.0
	Epoxy	1	Macropoxy 646	Series V69-1255	175-275	4.0-6.0
	Acrylic	1	Sher-Cryl HPA	Series V69-00WH	225-275	3.0-5.0

** Surface Preparation: Abrasive blast to remove all existing bituminous coating. Provide a minimum anchor pattern of 1.5 mils. It is not the intent to remove the annealing. Trace amounts of bituminous coating (not a film) may remain in the pores of the metal. First two (2) coats shall be roller applied or if spray applied shall be immediately back-rolled

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SECTION G-13 CLEANUP

G13-01 GENERAL

The Contractor shall continually maintain a clean, neat-appearing and safe work site during construction and provide final cleanup that will leave the premises clean and ready for operation as specified herein.

The construction area shall be kept free of rubbish, waste materials and packing materials. All waste materials shall be disposed of on a daily basis or more often.

The entire site shall be kept free of all waste materials, unused pipe, excessive dirt and dust. Cleanup shall closely follow pipe laying and backfilling. Fences shall be protected during construction and repaired to the property owner's and the Owner's satisfaction. All large rocks, clods, broken pipe and unused materials shall be removed from the work site each day during construction and during final cleanup.

All surfaces surrounding the water system facilities disturbed during construction shall be restored to pre-construction conditions or better.

All structures shall be completely cleaned prior to final acceptance. All floors shall be thoroughly swept and cleaned. All fixtures shall be cleaned and polished. All painted surfaces, including all piping and equipment shall be cleaned of all dirt, oil, smudges, etc.

Final cleanup shall include the removal and disposal of all foreign material, paper, rubbish, rocks, clods, excess pipe, asphalt, wood, metal, and all other excess miscellaneous construction material.

All cut and fill slopes, trenches, stockpiles and area where the natural ground has been disturbed shall be left with a smooth, clean appearance. All excess rocks, clods, wood, rubbish, etc. shall be removed by the Contractor from the project area whether or not generated by the Contractor, Owner or utility companies.

Drainage ditches shall be kept open during times rain is expected.

Disposal of excavated materials not suitable for backfilling shall be the responsibility of the Contractor. No material shall be disposed of on private property adjacent to the work area without the written consent of the property owner and the notification of the Engineer.

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SECTION "H"

DESCRIPTION OF BID ITEMS

TENNEY TANK SITE WATER TANK REPLACEMENTS INVERNESS PUBLIC UTILITY DISTRICT

ITEM NO. 1. DEMOLITION

Under this item, the Contractor shall provide all necessary equipment, labor and material required and demolish one existing 10,000 gallon redwood tank, associated wooden deck and foundation, one 60,000 gallon redwood tank with a wood floor and slab under the tank, one 10,000 gallon tank foundation (no tank), one existing wooden shed, removal of stumps and the onsite piping to be removed, including but not limited to mobilization, dismantling existing tanks and grade rings, footings, slab floors, excavation and removal of existing piping as shown, backfill excavations, coordination with owner for the owner to move the electrical equipment in the existing shed to a temporary location, properly transport and store salvageable materials at the Conner tank site, properly dispose of all demolished materials, and cleanup, complete in accordance with the Drawings and as specified herein.

ITEM NO. 2. SITE DEVELOPMENT

Under this item, the Contractor shall provide all the necessary equipment, labor and materials required to develop the tank site to accommodate the bolted steel tanks including but not limited to excavation to subgrade, stockpiling, hauling and proper disposal of excess material, scarify and re-compact subgrade, crushed blue base, erosion control and cleanup complete in accordance with the Drawings and as specified herein.

ITEM NO. 3. OVER-EXCAVATION

Over-excavation shall be paid for at the contract in-place cubic yard unit price which shall include all labor, materials, and equipment necessary to over-excavate and fill over-excavations, including but not limited to excavation beyond the limits of excavation or sub-excavation indicated on the drawings at the direction and as determined necessary by the Engineer in the field, stockpiling, mixing, replacement with approved fill materials, moisture conditioning, compacting, off-haul and excess material disposal, and no additional allowance will be made therefor.

The estimated quantity of over-excavation is for bidding purposes only. This quantity may be increased, decreased or eliminated in its entirety based on field condition evaluations made by the Engineer, and no adjustment in the contract bid unit price or other contract items will be made therefor. In the event of an increase or a decrease in the amount of the Engineer's estimated quantity of over-excavation, such increase or decrease shall not be considered an alteration in excess of the 25 percent of the contract amount of such items under provisions of Section 9-1.06 of the State Standard Specifications and no adjustment of the contract unit price for over-excavation will be made by reason of such increase or decrease.

ITEM NO. 4. TANK FOUNDATION CONCRETE

Under this item, the Contractor shall provide all the necessary equipment, labor and materials required and form, pour and finish the concrete for the tank foundation including but not limited

to, excavation of footing, proper disposal of excess material, rock removal, erecting form work as required, concrete, concrete pumping, concrete finishing, removal of forms, curing and cleanup complete in accordance with the Drawings and as specified herein. The volume of concrete paid for shall be based on the neat concrete volume calculated based on the approved foundation design shop drawing.

ITEM NO. 5. TANK FOUNDATION REINFORCEMENT STEEL

Under this item, the Contractor shall provide all the necessary equipment, labor and material required and furnish and install reinforcement for the tank foundation including but not limited to, reinforcement steel, fabrication of required parts, spacers, tie wire, installation of reinforcement, removal of excess reinforcement steel and cleanup complete in accordance with the Drawings and as specified herein. The weight of steel shall be paid based on the weight of reinforcement shown on the approved foundation design shop drawing.

ITEM NO. 6. THERMOSET POWDER COATED BOLTED STEEL TANK 1

Under this item, the Contractor shall provide all the necessary equipment, labor and material required and provide a 26.74 diameter by 15.08' high bolted steel tank including but not limited to tank design, foundation design, shop drawings, manufacturing, steel cleaning, coating, factory coating testing, coating repair, tank testing, gaskets, bolts, sealant, access ladders, level indicator, roof vents, access manways, roof hatch, overflow, safety provisions, inlet, outlet, side taps, guard railing, safety chain, testing of bottom of bottom coatings, erection, testing of interior coatings, coating repair, tank cleaning, tank disinfection, tank filling and cleanup complete in accordance with the Drawings and as specified herein.

ITEM NO. 7. THERMOSET POWDER COATED BOLTED STEEL TANK 2

Under this item, the Contractor shall provide all the necessary equipment, labor and material required and provide a 21.54 diameter by 18.58' high bolted steel tank including but not limited to tank design, foundation design, shop drawings, manufacturing, steel cleaning, coating, factory coating testing, coating repair, tank testing, gaskets, bolts, sealant, access ladders, level indicator, roof vents, access manways, roof hatch, overflow, safety provisions, inlet, outlet, interior check valve, side taps, guard railing, safety chain, testing of bottom of bottom coatings, erection, testing of interior coatings, coating repair, tank cleaning, tank disinfection, tank filling and cleanup complete in accordance with the Drawings and as specified herein.

ITEM NO. 8. PIPING AND APPURTENANCES

Under this item, the Contractor shall provide all necessary equipment, labor and material required and trench, lay, bed, backfill, and test piping including but not limited to permit fees, mobilization, erosion control, utility location verification, saw cutting pavement, excavation, abandonment of existing pipe and conduit beyond noted removal, dewatering, bedding, pipe, tracer wire, fittings, expansion joints, connection to tank, sample tap valves, sample taps, level transducer, level transducer box and support, boxes, joint restraint, thrust blocks, valves, valve boxes, valve box collars, couplings, backfill, aggregate base, controlled density fill, compaction, crossing under existing utilities, disposal of excess material, disinfection, pressure, leakage and disinfection testing, disposal of test water, temporary connections as necessary, traffic control, trench

maintenance, surface restoration and cleanup, complete in accordance with the Drawings, applicable Encroachment Permit requirements and as specified herein.

ITEM NO. 9. SHED

Under this item, the Contractor shall provide all necessary equipment, labor and materials required to construct the shed including but not limited to pad excavation, base rock and compaction, concrete forming, concrete, reinforcement, concrete placement and finishing, lumber, siding, roof sheathing, trim, door, windows, painting, pressure treated lumber, anchoring to slab, locking hardware, metal roofing, painting and cleanup, complete in accordance with the Drawings and as specified herein.

ITEM NO. 10. UNDERGROUND ELECTRICAL CONDUITS

Under this item, the Contractor shall provide all necessary equipment, labor and material required to provide and install the underground electrical conduits, including but not limited to RGS conduit and sweeps for transitions from below grade to above grade, schedule 80 PVC conduit for underground conduit, trenching, bedding sand, backfill, positioning the vertical conduits through slabs or foundations where required, conduit pull boxes, pull rope, mandrel testing, disposal of excess material and cleanup, complete in accordance with the Drawings and as specified herein.

ADDITIVE ITEM NO. 1 BOLTED STEEL TANK CATHODIC PROTECTION

Under this item, the Contractor shall provide all the necessary equipment, labor and material required and design and install a sacrificial anode cathodic protection system on the new bolted steel tanks generally including but not limited to, design of cathodic protection system, control box, conduit, wiring, handholes, hangers, anodes, cathodes, startup after the 11 month warranty inspection and cleanup, complete in accordance with the Drawings and as specified herein.

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SECTION "I"

LIST AND DESCRIPTION OF DRAWINGS

TENNEY TANK SITE WATER TANK REPLACEMENTS
INVERNESS PUBLIC UTILITY DISTRICT

The Contract Drawings, prepared by Brelje & Race Consulting Engineers as a basis for the preparation of proposals and for the performance of the work under this contract for the Tenney Tank Site Water Tank Replacements project are twelve (12) in number and half scale drawings immediately follow this page.

TENNEY TANK SITE WATER TANK REPLACEMENTS

<u>SHEET NO.</u>	<u>TITLE</u>
1	Cover
2	Legend, Abbreviations & Notes
3	Phase 1 Piping Modifications and Site Demolition Plan
4	Phase 2 Piping Modifications and Site Demolition Plan
5	Site Grading Plan
6	Site Piping Plan
7	Tank Section
8	Tank Appurtenance Plan
9	Erosion Control Plan
10	Tank Details
11	Tank Details
12	Water System Details

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IMPROVEMENT PLANS

TENNEY TANK SITE

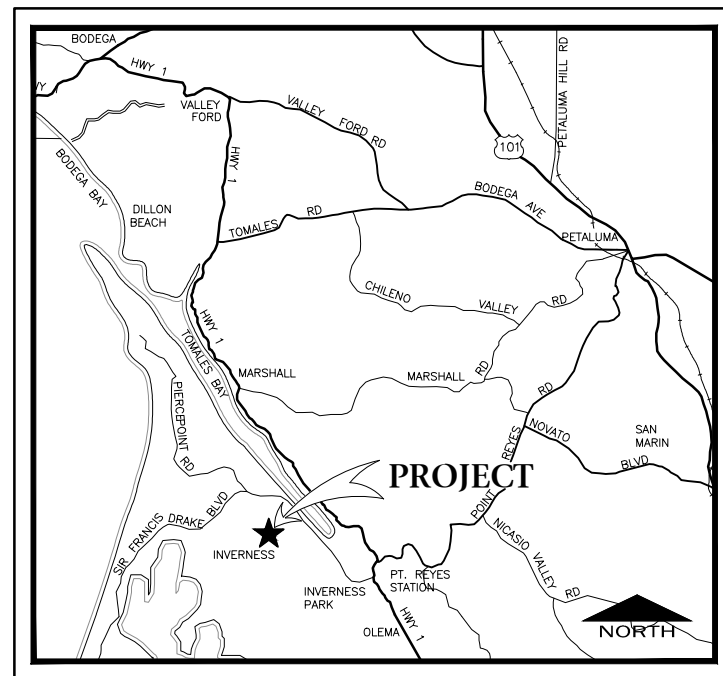
WATER TANK REPLACEMENTS

INVERNESS PUBLIC UTILITY DISTRICT
MARIN COUNTY - CALIFORNIA

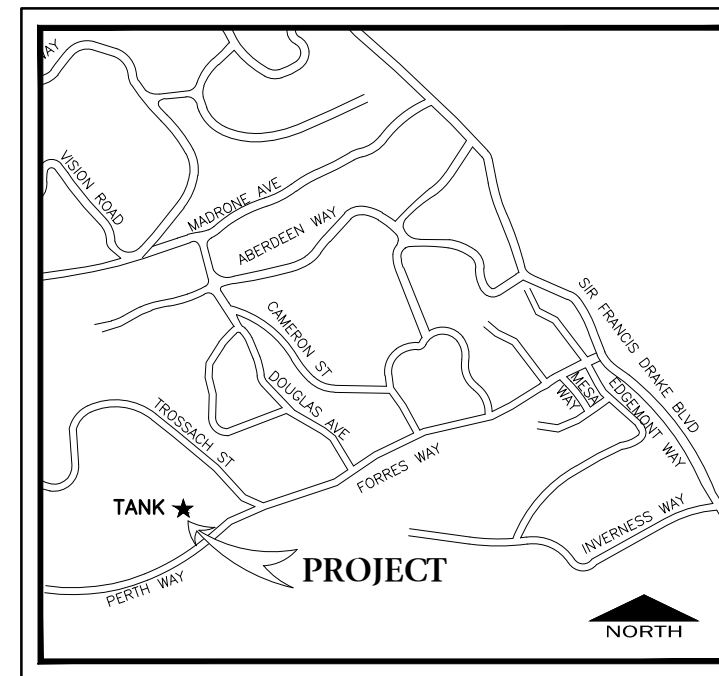
JANUARY 2021



CALIFORNIA STATE MAP
NOT TO SCALE



VICINITY MAP
NOT TO SCALE



LOCATION MAP
NOT TO SCALE

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER
2	LEGEND, ABBREVIATIONS & NOTES
3	PHASE 1 PIPING MODIFICATIONS & SITE DEMOLITION PLAN
4	PHASE 2 PIPING MODIFICATIONS & SITE DEMOLITION PLAN
5	SITE GRADING PLAN
6	SITE PIPING PLAN
7	TANK SECTION
8	APPURTENANCE PLAN
9	EROSION CONTROL PLAN
10	TANK DETAILS
11	TANK DETAILS
12	WATER SYSTEM DETAILS

Brelje & Race
CONSULTING CIVIL ENGINEERS
5570 Skyline Blvd • Santa Rosa, CA 95403 • 707-576-1322 • www.brco.com



IMPROVEMENT PLANS
TENNEY TANK SITE
WATER TANK REPLACEMENTS

LEGEND

PIPING

DESCRIPTION	DOUBLE LINE	SINGLE LINE
JOINTS		
BELL & SPIGOT		
FLANGED		
MECHANICAL		
VALVES		
BALL		
CHECK		
BUTTERFLY		
GATE		
PLUG		
GLOBE		
SAFETY		
MANUAL		
INLET CONTROL		
FITTINGS		
CROSS		
ELBOW (REDUCING)		
ELBOW (STRAIGHT)		
FLANGED COUPLING ADAPTOR		
FLEXIBLE COUPLING		
REDUCER CONCENTRIC		
TEE		

MISCELLANEOUS

DESCRIPTION	
CONCRETE IN SECTION	
EXISTING GRADE	
FINISH GRADE	
GRATING	
STEEL IN SECTION	
WATER SURFACE	
WOOD IN SECTION	
CLEANOUT	
DIRECTION OF FLOW	
HOSE BIBB	
MANHOLE	
STRUCTURAL STEEL ANGLE 6" LEG, 4" LEG, 5/8" THICK	L 6 X 4 X 5/8
STRUCTURAL STEEL CHANNEL 10" DEEP, 15.3 POUNDS/ LINEAR FOOT	C 10 X 15.3
STRUCTURAL STEEL WIDE FLANGE 6" DEEP, 12 POUNDS/ LINEAR FOOT	W 6 X 12
PLATE 1/2" THICK, 18" WIDE, 24" LONG	PL 1/2 X 18 X 24

ABBREVIATIONS

AB	AGGREGATE BASE	DDC	DOUBLE CHECK DETECTOR CHECK	HDPE	HIGH DENSITY POLYETHYLENE	P	PROPERTY LINE	SSCO	SANITARY SEWER CLEANOUT
AC	ASPHALT CONCRETE	DET	DETECTOR	HP	HIGH PRESSURE GAS	PN	PAVING NOTCH	SDMH	SANITARY SEWER MANHOLE
ACP	ASBESTOS CEMENT PIPE	DI	DROP INLET	HGW	HIGHWAY	POC	POINT ON CURVE	ST	STREET
ADPT	ADAPTER	DIA	DIAMETER	HWY	HIGHWAY	POS	PRIVATE OPEN SPACE	STA	STATION
AGG	AGGREGATE	DIP	DUCTILE IRON PIPE	ICV	IRRIGATION CONTROL VALVE	POT	POINT ON TANGENT	STD	STANDARD
ALUM	ALUMINUM	DR	DRIVE	ID	INSIDE DIAMETER	PP	POWER POLE	SVC	SERVICE
AP	ANGLE POINT	DS	DOWNSTREAM	INV	INVERT	PRC	POINT OF REVERSE CURVATURE	SWE	SIDEWALK EASEMENT
APN	ASSESSORS PARCEL NUMBER	DWG	DRAWING	IP	IRON PIPE	PSI	POUND PER SQUARE INCH	SY	SQUARE YARDS
APPROX	APPROXIMATE	D/W	DRIVEWAY	IPS	IRON PIPE SIZE	PT	POINT OF TANGENCY	S/W	SIDEWALK
ARY	AIR RELEASE VALVE	EG	EAST	IRR	IRRIGATION	PUE	PUBLIC UTILITY EASEMENT	T	TANGENT
AVE	AVENUE	E	END HORIZONTAL CURVE	ISA	INTERNATIONAL SIGN ASSOCIATION	PVC	POLYVINYL CHLORIDE	TAN	TANGENT
BC	BEGIN HORIZONTAL CURVE	ECC	ECCENTRIC	JP	JOINT POLE	PVI	POINT OF VERTICAL INTERSECTION	TB	TOP OF BOX
BLDG	BUILDING	EFFL	EFFLUENT (SEWER)	JT	JOINT TRENCH	PVM	PAVEMENT	TC	TOP OF CURB
BLVD	BOULEVARD	EG	EXISTING GROUND	L	ARC LENGTH	PWE	PUBLIC WATER EASEMENT	TCE	TEMPORARY CONSTRUCTION EASEMENT
BM	BENCHMARK	EL	ELEVATION	LT	LEFT	R	RADIUS	TD	TOP OF DIKE
BO	BLOWOFF	ELEC	ELECTRICAL	LF	LINEAL FEET	RC	RELATIVE COMPACTION	TEL	TELEPHONE
BV	BUTTERFLY VALVE	ELL	ELBOW	LG	LIP OF GARAGE	RCB	REINFORCED CONCRETE BOX	TEMP	TEMPORARY
BVC	BEGIN VERTICAL CURVE	EP	EDGE OF PAVEMENT	LP	LOW POINT	RCP	REINFORCED CONCRETE PIPE	TG	TOP OF GRATE
BW	BOTTOM OF WALL	ESMT	EASEMENT	LT	LEFT	RD	ROAD	THD	THREADED
B&R	BRELIE & RACE	EVC	END VERTICAL CURVE	MAX	MAXIMUM	RD	ROOF DRAIN	TW	TOP OF WALL
C	CENTERLINE	MFR	MANUFACTURE	MFG	MILLION GALLONS	RED	REDUCER	TYP	TYPICAL
CAV	COMBINATION AIR & VACUUM RELEASE VALVE	MG	MILLION GALLONS	MANHOLE	MANHOLE	REF	REDUCED PRESSURE BACKFLOW PREVENTER	UFFG	UNDER FLOOR FINISHED GRADE
CB	CATCH BASIN	MIN	MINIMUM	MIN	MINIMUM	RSP	REDUCED PRESSURE BACKFLOW PREVENTER	UND	UNNOTED OTHERWISE
CBG	CALIFORNIA BUILDING CODE	MISC	MISCELLANEOUS	MJ	MECHANICAL JOINT	RT	RING TIGHT	VC	VERTICAL CURVE
CHK	CHECK	MISC	MISCELLANEOUS	MSL	MEAN SEA LEVEL	R	RADIUS	W	WEST
CIPP	CAST-IN-PLACE PIPE	MJ	MECHANICAL JOINT	N	NORTH	RW	RECLAIMED WATER	WM	WATER METER
CL	CLASS	MSL	MEAN SEA LEVEL	N	NORTH	R/W	RIGHT OF WAY	WNF	WELD NECK FLANGE
CLR	CLEAR	NO	NUMBER	NO	NUMBER	S	SLOPE	WS	WATER SERVICE
CMP	CORRUGATED METAL PIPE	NA	NOT APPLICABLE	NIC	NOT IN CONTRACT	SAD	SEE ARCHITECTURAL DRAWINGS	WT	WEIGHT
CMPA	CORRUGATED METAL PIPE ARCH	NIC	NOT IN CONTRACT	NPT	NATIONAL PIPE THREAD	SCH	SCHEDULE	WV	WATER VALVE
CONC	CONCRETE	NPT	NATIONAL PIPE THREAD	OC	ON CENTER	SD	STORM DRAIN	.	DEGREES
COND	CONDUIT	OC	ON CENTER	OD	OUTSIDE DIAMETER	SDCB	STORM DRAIN CATCH BASIN	'	MINUTES
COTG	CLEANOUT TO GRADE	OH	OVERHEAD	OD	OUTSIDE DIAMETER	SDCO	STORM DRAIN CLEANOUT	"	SECONDS
CP	CONTROL POINT	OH	OVERHEAD	OD	OUTSIDE DIAMETER	SDDI	STORM DRAIN DROP INLET	Δ	DELTA
CP	CONTROL POINT	OZ	OUNCE	OD	OUTSIDE DIAMETER	SDSE	STORM DRAIN EASEMENT	&	AND
CPLG	COUPLING	PA	PLANTER AREA	OS	OVERHEAD	SDMH	STORM DRAIN MANHOLE	@	AT
CR	CURB RETURN	PA	PLANTER AREA	OS	OVERHEAD	SE	SEWER EASEMENT	#	NUMBER
CSP	CORRUGATED STEEL PIPE	PCC	POINT OF COMPOUND CURVATURE	OS	OVERHEAD	SF	SQUARE FEET	%	PERCENT
CTR	CENTER	PCC	POINT OF COMPOUND CURVATURE	OS	OVERHEAD	SOF	SLIP ON FLANGE		
CY	CUBIC YARDS	PCC	PORTLAND CEMENT CONCRETE	OS	OVERHEAD	SO	SIDE OPENING (SD)		
C/C	CENTER TO CENTER	PE	PLANE END	OS	OVERHEAD	SS	SPECIFICATION		
C&G	CURB AND GUTTER	PE	PLANE END	OS	OVERHEAD	SS	STAINLESS STEEL		
DBL	DOUBLE	PV	POST INDICATOR VALVE			SS	SANITARY SEWER		
DDC	DOUBLE CHECK DETECTOR CHECK								

DISTRIBUTION SYSTEM LEGEND

LINES	EXISTING	PROPOSED
BOUNDARY		
PARCEL		
CENTER		
EASEMENT		
UTILITY LINES		
STORM DRAIN		
WATER		
SEWER		
GAS		
ELECTRICAL		
TELEPHONE		
TELEVISION		
JOINT TRENCH		
TOPOGRAPHY		
WATER METER		
WATER VALVE		
BLOWOFF		
FIRE HYDRANT		
GAS METER		
CATCH BASIN		
STORM DRAIN INLET		
STORM DRAIN MANHOLE		
SEWER MANHOLE		
SEWER CLEANOUT		
JOINT POLE		
LIGHT STANDARD		
GUY/ANCHOR		
CURB & GUTTER		
A.C. DIKE		
FENCE		
CHAIN LINK FENCE		
DITCH/SWALE		
MONUMENT		
TREE TO BE SAVED		
TREE TO BE REMOVED		

SYMBOLS

DETAIL	
SHEET REFERENCE NUMBER	
SECTION NUMBER	
SHEET REFERENCE NUMBER	

GENERAL NOTES

- CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
- UNAUTHORIZED CHANGES AND USES: THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE ENGINEER.
- ALL MATERIAL, WORKMANSHIP AND CONSTRUCTION SHALL CONFORM TO THE STANDARD SPECIFICATIONS AND STANDARD PLANS OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION AND HWY STANDARDS, CURRENT EDITION OF ALL DOCUMENTS UNLESS STATED OTHERWISE.
- A PRE-CONSTRUCTION MEETING IS REQUIRED PRIOR TO BEGINNING OF WORK. PROGRESS MEETINGS SHALL BE HELD WEEKLY. THE MEETINGS SHALL COVER: CURRENT PROGRESS, PLANNED ACTIVITIES FOR NEXT TWO WEEKS, CONTRACTOR SUBMITTALS, POTENTIAL BLOCKAGE OF PRIVATE DRIVEWAY, ANY ISSUES TO APPRISE RESIDENTS OF AND ITEMS IDENTIFIED BY THE DISTRICT.
- WORK HOURS ARE LIMITED TO MONDAY THROUGH FRIDAY, 8:00 A.M. TO 6:00 P.M. WITHOUT PRIOR WRITTEN AUTHORIZATION OF THE DISTRICT.
- ANY DISCREPANCY DISCOVERED BY CONTRACTOR IN THESE PLANS OR ANY FIELD CONDITIONS DISCOVERED BY CONTRACTOR THAT MAY DELAY OR OBSTRUCT THE PROPER COMPLETION OF THE WORK PER THESE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE DISTRICT REPRESENTATIVE AND OWNER IMMEDIATELY UPON DISCOVERY. NOTIFICATION SHALL BE VERBALLY INITIALLY AND FOLLOWED BY WRITTEN NOTIFICATION.
- ITEMS SPECIFIED IN THE BID DOCUMENTS ARE APPROVED FOR USE BY THE INVERNESS PUBLIC UTILITY DISTRICT. ALL SUBSTITUTES OR ALTERATIONS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING NOISE, ODORS, DUST AND DEBRIS TO MINIMIZE IMPACTS ON SURROUNDING PROPERTIES AND ROADWAYS. CONTRACTOR SHALL BE RESPONSIBLE TO ASSURE THAT ALL CONSTRUCTION EQUIPMENT IS EQUIPPED WITH MANUFACTURER APPROVED MUFFLERS AND Baffles. FAILURE TO COMPLY MAY RESULT IN THE ISSUANCE OF A STOP WORK ORDER.

UTILITY NOTES

- NO GUARANTEE IS INTENDED THAT UNDERGROUND OBSTRUCTIONS, NOT SHOWN ON THESE PLANS, WILL NOT BE ENCOUNTERED. THOSE SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE AND THE CONTRACTOR IS CAUTIONED THAT THE OWNER, THE ENGINEER, AND THE INVERNESS PUBLIC UTILITY DISTRICT ASSUME NO RESPONSIBILITY FOR ANY OBSTRUCTIONS EITHER SHOWN OR NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY COMPANIES WORKING WITHIN THE LIMITS OF THIS PROJECT.
- CONTRACTOR SHALL NOT BEGIN EXCAVATION UNTIL ALL EXISTING UTILITIES HAVE BEEN MARKED IN THE FIELD BY THE APPLICABLE ENTITY RESPONSIBLE FOR THAT PARTICULAR UTILITY. THE CONTRACTOR SHALL NOTIFY EACH APPLICABLE ENTITY AT LEAST 24 HOURS BEFORE STARTING WORK. HAND DIGGING IS REQUIRED IF TRENCH IS WITHIN 12" OF ANY EXISTING UTILITY.
- UNDERGROUND SERVICE ALERT: CALL TOLL FREE (800) 642-2444 AT LEAST 48 HOURS PRIOR TO EXCAVATION.
- THE CONTRACTOR SHALL OBTAIN A TRENCH PERMIT FROM THE CALIFORNIA DIVISION OF INDUSTRIAL SAFETY BEFORE EXCAVATION OF TRENCHES. A COPY OF THE PERMIT MUST BE ON FILE WITH THE DISTRICT BEFORE TRENCH EXCAVATION MAY BEGIN.
- CONTRACTOR SHALL UNCOVER EXISTING BURIED UTILITIES WITH UTILITY OWNER TO VERIFY LOCATIONS AND ELEVATIONS OF UTILITIES. BURIED UTILITIES INCLUDE BUT ARE NOT LIMITED TO WATER MAINS AND LATERALS, DRAINS, ELECTRICAL LINES, AND TELEPHONE LINES. ALL UTILITIES CONFLICTING WITH THE PROPOSED CONSTRUCTION SHALL BE RELOCATED BEFORE THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL VERIFY EXISTING INVERTS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. THE PROJECT AND/OR DESIGN ENGINEER MAY ADJUST THE GRADE OF NEW UNDERGROUND FACILITY CONSTRUCTION ACCORDINGLY WITH CONCURRENCE FROM THE DISTRICT ENGINEER.
- ALL UNDERGROUND IMPROVEMENTS SHALL BE INSTALLED AND APPROVED PRIOR TO FINAL SURFACING.
- MINIMUM DEPTH OF COVER FROM FINISHED GRADE SHALL BE: 32" FOR 6" MAINS.
- A NO. 10 INSULATED COPPER WIRE SHALL BE LAID ON TOP OF AND ALONG ENTIRE LENGTH OF ALL MAINS AND SHALL EXTENDED TO THE SURFACE AT ALL VALVES, BLOWOFFS AND METER BOX LOCATIONS SUFFICIENTLY FOR LOCATOR EQUIPMENT TO BE ATTACHED. FASTEN THE WIRE TO THE TOP OF THE PIPE SO AS NOT TO BE DISPLACED BY BACKFILLING PROCEDURE (ONE METHOD OF ACCOMPLISHING THIS IS TO AFFIX THE WIRE TO THE TOP OF THE PIPE WITH DUCT TAPE AT APPROXIMATELY 10 FEET INTERVALS).

ENVIRONMENTAL NOTES

- IN THE EVENT THAT PREHISTORIC-ERA OR HISTORIC-ERA SITE INDICATORS ARE UNEARTHED DURING THE COURSE OF GRADING EXCAVATION AND/OR TRENCHING, ALL GROUND DISTURBING WORK IN THE VICINITY OF THE DISCOVERY SHALL CEASE AND ALL EXPOSED MATERIALS SHALL BE LEFT IN PLACE. PREHISTORIC-ERA ARCHAEOLOGIC SITE INDICATORS COULD INCLUDE CHIPPED CHERT AND OBSIDIAN TOOLS AND TOOL MANUFACTURE WASTE FLAKES, GRINDING IMPLEMENTS SUCH AS MOTORS AND PESTLES, AND LOCALLY DARKENED SOIL CONTAINING THE PREVIOUSLY MENTIONED ITEMS AS WELL AS FIRE ALTERED STONE AND DIETARY DEBRIS SUCH AS BONE AND SHELLFISH FRAGMENTS. HISTORIC-ERA ARCHAEOLOGIC SITE INDICATORS COULD INCLUDE ITEMS OF CERAMIC, GLASS AND METAL, AND FEATURES SUCH AS STRUCTURAL RUINS, WELLS AND PITS CONTAINING SUCH ARTIFACTS. AFTER CESSATION OF ACTIVITIES, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE DISTRICT. THE DISTRICT SHALL CONTACT THE APPROPRIATE AFFILIATED TRIBE(S), STATE WATER BOARDS AND A QUALIFIED PROFESSIONAL ARCHAEOLOGIST IMMEDIATELY AFTER THE FIND. SUCH ARCHAEOLOGIST, IN CONJUNCTION WITH TRIBAL REPRESENTATIVES, SHALL CONDUCT AN EVALUATION OF SIGNIFICANCE OF THE SITE, AND ASSESS THE NECESSITY FOR MITIGATION. THE CONTRACTOR SHALL NOT RESUME CONSTRUCTION ACTIVITIES IN THE AFFECTED AREA UNTIL AUTHORIZATION TO PROCEED IS RECEIVED FROM THE DISTRICT.
- IN THE EVENT PALEONTOLOGICAL SITE INDICATORS ARE UNEARTHED DURING THE COURSE OF GRADING EXCAVATION AND/OR TRENCHING, ALL GROUND DISTURBING WORK IN THE VICINITY OF THE DISCOVERY SHALL CEASE AND ALL EXPOSED MATERIALS SHALL BE LEFT IN PLACE. AFTER CESSATION OF EXCAVATION, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE DISTRICT. THE DISTRICT SHALL CONTACT A QUALIFIED PROFESSIONAL GEOLOGIST OR PALEONTOLOGIST IMMEDIATELY AFTER THE FIND. SUCH CONSULTANT SHALL CONDUCT AN EVALUATION OF SIGNIFICANCE OF THE SITE, AND ASSESS THE NECESSITY FOR MITIGATION. THE CONTRACTOR SHALL NOT RESUME CONSTRUCTION ACTIVITIES UNTIL AUTHORIZATION TO PROCEED IS RECEIVED FROM THE DISTRICT.
- IF HUMAN REMAINS ARE ENCOUNTERED DURING GRADING EXCAVATION AND/OR TRENCHING, ALL GROUND DISTURBING WORK IN THE VICINITY OF THE DISCOVERY SHALL CEASE AND THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE DISTRICT AND THE MARIN COUNTY CORONER'S OFFICE. IF THE REMAINS ARE DETERMINED BY THE CORONER'S OFFICE TO BE OF NATIVE AMERICAN ORIGIN, THE NATIVE AMERICAN HERITAGE COMMISSION SHALL BE CONTACTED AND THE PROCEDURES OUTLINED IN CCR TITLE 14, CHAPTER 3 (CEOA) §15064.5 (D) AND (E) SHALL BE IMPLEMENTED BY THE DISTRICT OR ITS DESIGNEE.
- THE CONTRACTOR SHALL FOLLOW THE PROVISIONS OF SECTIONS 5163 THROUGH 5167 OF THE GENERAL INDUSTRIAL SAFETY ORDERS (CALIFORNIA CODE OF REGULATIONS, TITLE 8) TO PROTECT THE PROJECT AREA FROM BEING CONTAMINATED BY THE ACCIDENTAL RELEASE OF ANY HAZARDOUS MATERIALS. IF HAZARDOUS MATERIALS ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL HALT CONSTRUCTION IMMEDIATELY, NOTIFY THE OWNER'S ON-SITE REPRESENTATIVE, AND IMPLEMENT REMEDIATION IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF THE BAY AREA REGIONAL WATER QUALITY CONTROL BOARD. DISPOSAL OF ALL HAZARDOUS MATERIALS SHALL BE IN COMPLIANCE WITH CURRENT CALIFORNIA HAZARDOUS WASTE DISPOSAL LAWS.

DUST CONTROL NOTES

- THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE DUST CONTROL MEASURES FOR THE ENTIRE CONSTRUCTION PERIOD OF THIS PROJECT TO THE SATISFACTION OF THE DISTRICT ENGINEER.
- CONSTRUCTION EQUIPMENT SHALL BE MAINTAINED IN PROPER WORKING ORDER AND SHALL NOT BE ALLOWED TO IDLE FOR A PERIOD OF LONGER THAN 30 MINUTES.
- TO MINIMIZE FUGITIVE DUST AND THE RELEASE OF PM10, THE CONTRACTOR SHALL IMPLEMENT A DUST CONTROL PROGRAM. DUST CONTROL MEASURES SHALL INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:
 - ACTIVE CONSTRUCTION SITE SHALL BE WATERED AS NEEDED, PREFERABLE IN THE LATE MORNING AND WHEN WORK HAS CEASED FOR THE DAY.
 - STOCKPILES OF LOOSE MATERIAL SHALL BE COVERED AT ALL TIMES, EXCEPT WHEN THIS WOULD INTERFERE WITH IMMEDIATE CONSTRUCTION ACTIVITIES.
 - ALL CLEARING, GRADING, EARTH MOVING OR EXCAVATION ACTIVITIES SHALL CEASE WHEN THE AVERAGE WIND SPEED FOR ONE HOUR EXCEEDS 20 MILES PER HOUR (MPH).
 - THE AREA DISTURBED BY EXCAVATION OR GRADING SHALL BE KEPT TO THE MINIMUM REQUIRED TO IMPLEMENT THE PROJECT.
 - WHEN TRAVELING ON EXPOSED SOILS, CONSTRUCTION SITE VEHICLE SPEED SHALL BE LIMITED TO 15 MPH.
 - HAUL VEHICLES SHALL BE COVERED WHEN NOT ACTIVELY ENGAGED IN SITE CONSTRUCTION ACTIVITY.
 - STREETS SHALL BE SWEEPED REGULARLY AND KEPT FREE OF DIRT AND DEBRIS.
- ANY PROJECT RELATED DEBRIS, DEBRIS AND WASTE SHALL BE DISPOSED OF IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL STATUTES AND REGULATIONS.

EROSION CONTROL NOTES

- EROSION CONTROL MEASURES SHALL BE INSTALLED AND IN PLACE BETWEEN OCTOBER 1 AND APRIL 30. INSTALLATION SHALL BE IN ACCORDANCE WITH THE APPROVED EROSION CONTROL PLAN.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTANT MAINTENANCE OF EROSION CONTROL MEASURES. SITE EROSION CONTROL SHALL BE INSPECTED BY THE CONTRACTOR AND CLEANED IF NECESSARY AFTER EVERY MAJOR STORM.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEANUP OF MUD AND DEBRIS CARRIED ONTO SURROUNDING STREETS TO THE SATISFACTION OF THE DISTRICT ENGINEER.
- ALL GRADED AREAS AND EXPOSED SOIL WITHIN THIS PROJECT SHALL BE SEED FOR EROSION CONTROL BY THE CONTRACTOR. SEED AND MULCH WILL BE APPLIED BY OCTOBER 1ST TO ALL CUT AND FILL SLOPES. SEED AND FERTILIZER WILL BE APPLIED HYDRAULICALLY OR BY HAND AT THE RATES SPECIFIED BELOW. ON SLOPES, STRAW WILL BE APPLIED BY BLOWER OR BY HAND AND ANCHORED IN PLACE BY PUNCHING.

ITEM	POUNDS PER ACRE
"BLANDO BROME"	30
ANNUAL RYE GRASS	20
FERTILIZER (16-20-0 & 15% SULFUR)	500
STRAW MULCH	4000 OR 1500 LB. OF WOOD CELLULOSE

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TENNEY TANK SITE WATER TANK REPLACEMENTS

INVERNESS PUBLIC UTILITY DISTRICT

MARIN COUNTY, CALIFORNIA

REVISIONS

NO.	DATE	DESCRIPTION

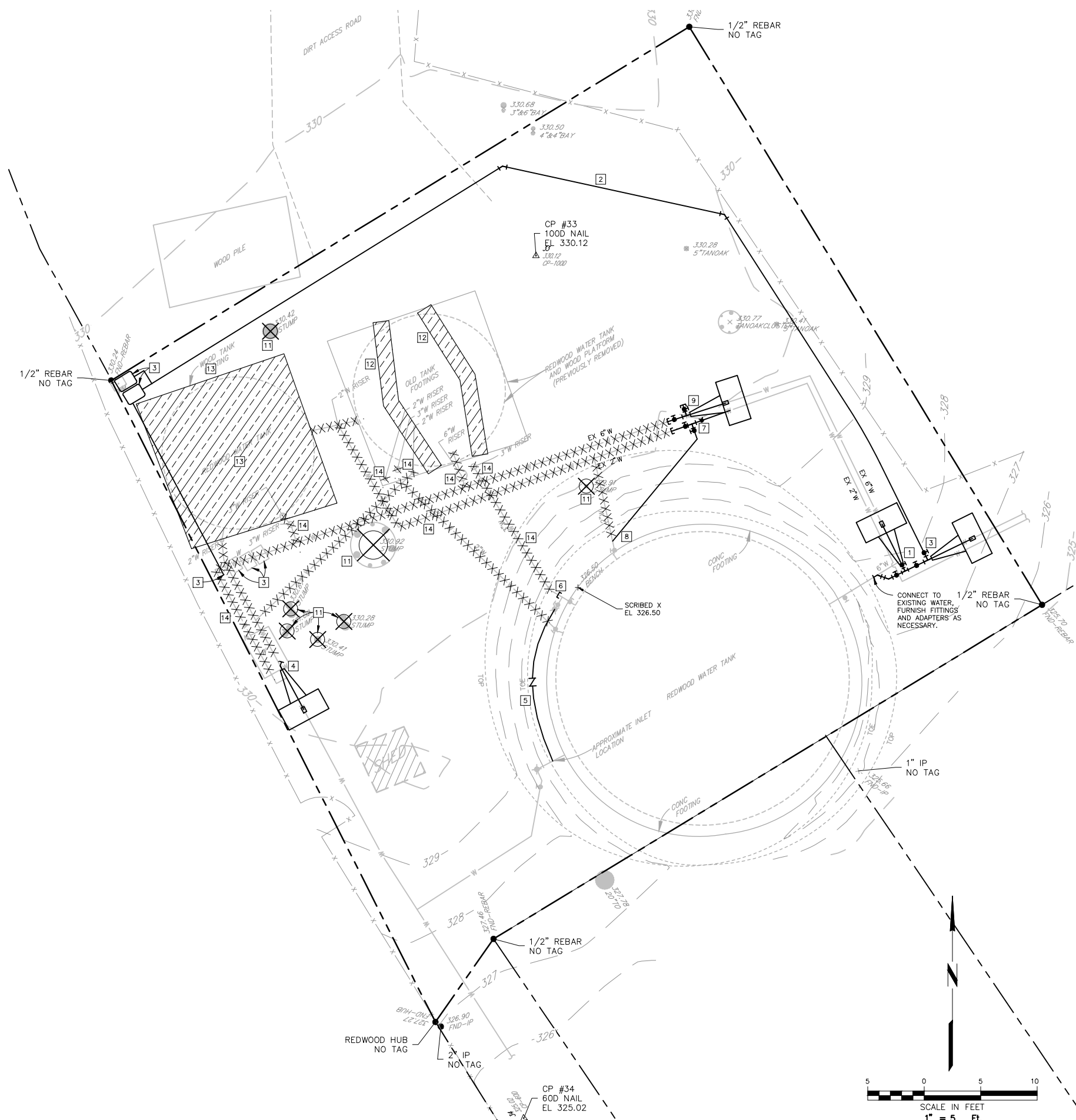
ON A FULL-SCALE DRAWING, LENGTH OF BAR BELOW IS 1-INCH. IF BAR MEASURES LESS THAN 1-INCH, THIS SHEET WAS PLOTTED AT A REDUCED SCALE, WHICH MAY REQUIRE ADJUSTMENT OF SCALE(S) SHOWN ON DRAWING.

PROJECT	DATE
2630.05	JANUARY 2021
DRAWN BY	CHECKED BY
TJC	BB

LEGEND, ABBREVIATIONS & NOTES

SHEET NO.

2 OF 12



DEMOLITION/INTERIM FACILITIES NOTES

1 REMOVE EXISTING 6\"/>

2 INSTALL AND TEST 2\"/>

3 REMOVE AND RELOCATE EXISTING SERVICES. CONNECT TO 2\"/>

AFTER WORK IN ABOVE SHEET NOTES (1, 2 AND 3) IS COMPLETE, PERFORM THE FOLLOWING WORK.

4 POTHOLE EXISTING PIPING AND VERIFY WATER MAIN TO NEW TANK CAN BE INSTALLED WITH A POSITIVE SLOPE TO THE TANK. INSTALL HARNESS BLOCK PER DETAIL SHEET 12. INSTALL NEW 45\"/>

5 INSTALL TEMPORARY ABOVE GROUND 3\"/>

6 INSTALL CAP OR PLUG ON PIPING BEYOND WHARF HYDRANT.

7 POTHOLE EXISTING PIPING AND VERIFY WATER MAIN TO NEW TANK CAN BE INSTALLED WITH A POSITIVE SLOPE TO THE TANK. INSTALL 2\"/>

8 INSTALL TEMPORARY 2\"/>

9 AFTER SERVICES ARE RELOCATED AND CONNECTED TO NEW 2\"/>

AFTER WORK IN ABOVE SHEET NOTES (4 THRU 9) IS COMPLETE, PERFORM THE FOLLOWING WORK.

11 REMOVE EXISTING STUMP AND PROPERLY DISPOSE OF OFFSITE.

12 REMOVE EXISTING FOOTINGS AND PROPERLY DISPOSE OF OFFSITE.

13 AFTER ALL PIPING MODIFICATIONS ON THIS SHEET ARE MADE REMOVE EXISTING TANK PLATFORM, AND FOUNDATION, AND SALVAGE REDWOOD PER LEGEND BELOW AND PROPERLY DISPOSE OF OTHER MATERIAL OFFSITE.

14 AFTER ALL PIPING MODIFICATIONS ON THIS SHEET ARE MADE REMOVE EXISTING PIPING AND PROPERLY DISPOSE OF OFFSITE.

LEGEND

XXXXX UTILITY PIPES AND STRUCTURES TO BE REMOVED AND PROPERLY DISPOSED OF OFFSITE. CUT AND CAP PORTIONS OF THE UTILITIES TO REMAIN. REFER TO SPECIFICATIONS FOR ABANDONMENT REQUIREMENTS. SEE PLAN FOR SIZE AND TYPE.

[Hatched Area] REMOVE ALL EXISTING SURFACE IMPROVEMENTS, INCLUDING, BUT NOT LIMITED TO CONCRETE SLABS, TANK FOOTING TANK PLATFORMS AND TANKS, ETC WITHIN THE LIMITS OF THE HATCHING SHOWN HEREON AND PROPERLY DISPOSE OF IMPROVEMENTS OFFSITE, UNLESS OTHERWISE NOTED. REDWOOD LUMBER SHALL BE STACKED AT THE CONNER TANK SITE WITH 1/4\"/>

[Crossed Box] STUMP TO BE REMOVED.

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INVERNESS PUBLIC UTILITY DISTRICT

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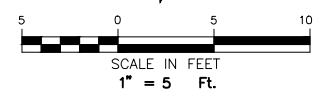
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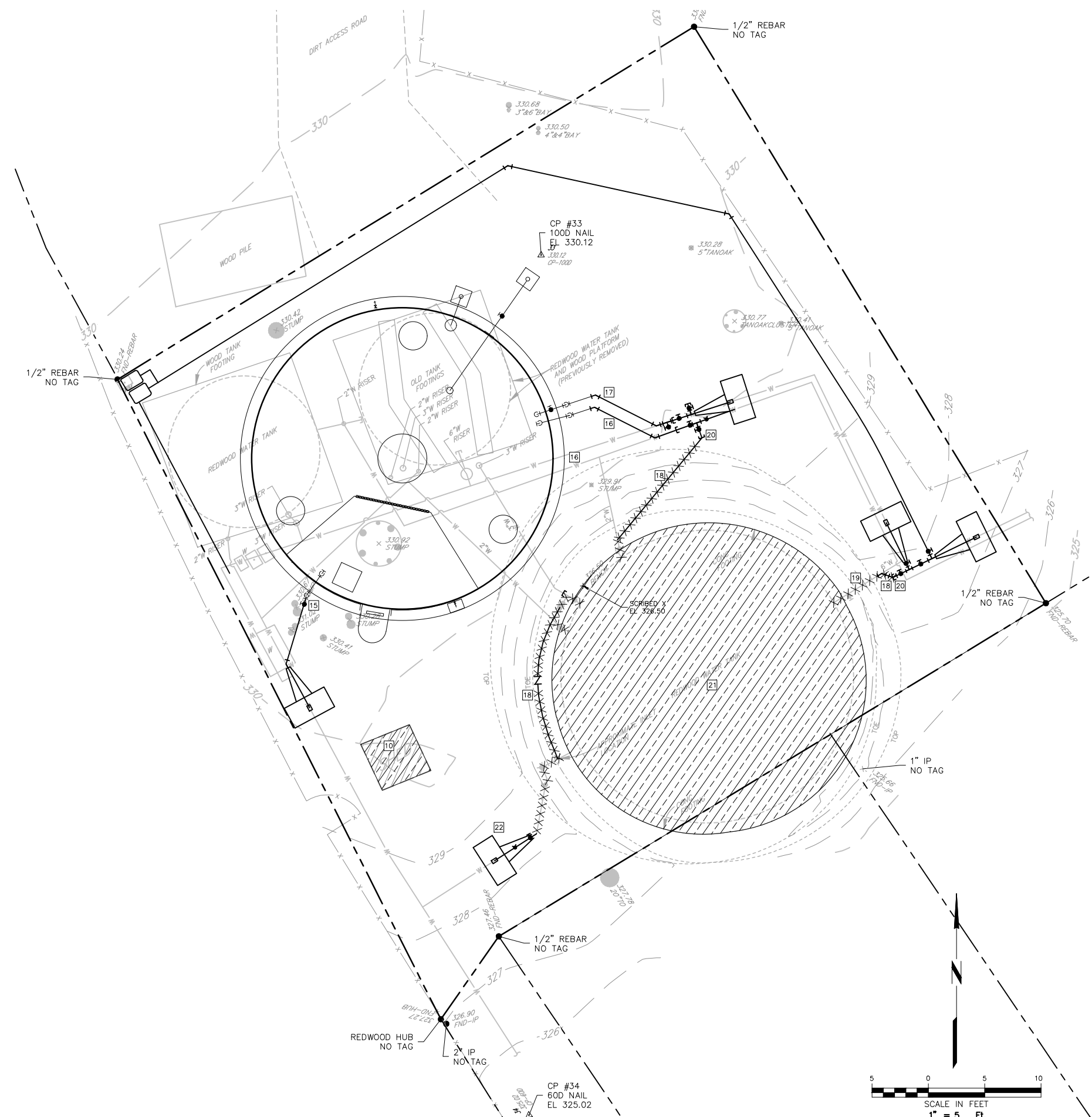
PHASE 1 PIPING MODIFICATIONS & SITE DEMOLITION PLAN

SHEET NO.
3 OF **12**

01-13-21 brazier \2630.dwg\2630.05\2630.05 \$Terry BASE.dwg TAB: 3--Phase 1_DEMO



01-13-21 brazer \\2630.dwg 2630 05\2630.05 \$Terry BASE.dwg TAB: 4-Phase 2_DEMO



DEMOLITION/INTERIM FACILITIES NOTES

AFTER TANK 1 HAS BEEN CONSTRUCTED AND TESTED PERFORM THE FOLLOWING WORK.

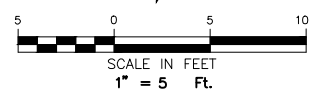
- 15 CONNECT TO SIDE INLET PIPING.
- 16 CONNECT TO HIGH OUTLET.
- 17 CONNECT TO OUTLET.

AFTER TANK 1 IS CONNECTED PERFORM THE FOLLOWING WORK.

- 18 REMOVE EXISTING SHED AND PROPERLY DISPOSE OF OFFSITE. COORDINATE WITH OWNER TO FACILITATE THE TEMPORARY MOVEMENT, BY THE OWNER, OF THE ELECTRICAL EQUIPMENT IN AND ON THE EXISTING SHED.
- 19 REMOVE TEMPORARY PIPING.
- 20 REMOVE EXISTING PIPING AND PROPERLY DISPOSE OF OFFSITE.
- 21 CAP OR PLUG OUTLET OF VALVE.
- 22 AFTER ALL PIPING MODIFICATIONS ON THIS SHEET ARE MADE, REMOVE EXISTING TANK. THE TANK HAS A SLAB FOUNDATION OVER WHICH A REDWOOD FLOOR IS CONSTRUCTED. SALVAGE REDWOOD PER LEGEND BELOW AND PROPERLY DISPOSE OF OTHER MATERIAL OFFSITE.
- 23 PRIOR TO DEMOLISHING THE TANK, POTHOLE EXISTING PIPING, INSTALL HARNESS BLOCK, VALVE AND PLUG. CONNECT TO EXISTING PIPING WITH FLEXIBLE COUPLING. INSTALL 3/4\"/>

LEGEND

- XXXXX UTILITY PIPES AND STRUCTURES TO BE REMOVED AND PROPERLY DISPOSED OF OFFSITE. CUT AND CAP PORTIONS OF THE UTILITIES TO REMAIN. REFER TO SPECIFICATIONS FOR ABANDONMENT REQUIREMENTS. SEE PLAN FOR SIZE AND TYPE.
- REMOVE ALL EXISTING SURFACE IMPROVEMENTS, INCLUDING, BUT NOT LIMITED TO CONCRETE SLABS, TANK FOOTING TANK PLATFORMS AND TANKS, ETC WITHIN THE LIMITS OF THE HATCHING SHOWN HEREON AND PROPERLY DISPOSE OF OFFSITE, UNLESS OTHERWISE NOTED. REDWOOD LUMBER SHALL BE STACKED AT THE CORNER TANK SITE WITH 1/4\"/>



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TENNEY TANK SITE WATER TANK REPLACEMENTS

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UTILITY DISTRICT**

MARIN COUNTY, CALIFORNIA

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PHASE 2 PIPING MODIFICATIONS & SITE DEMOLITION PLAN

SHEET NO.
4 OF **12**



**TENNEY TANK SITE
 WATER TANK
 REPLACEMENTS**

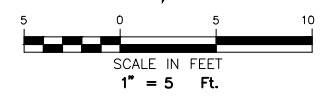
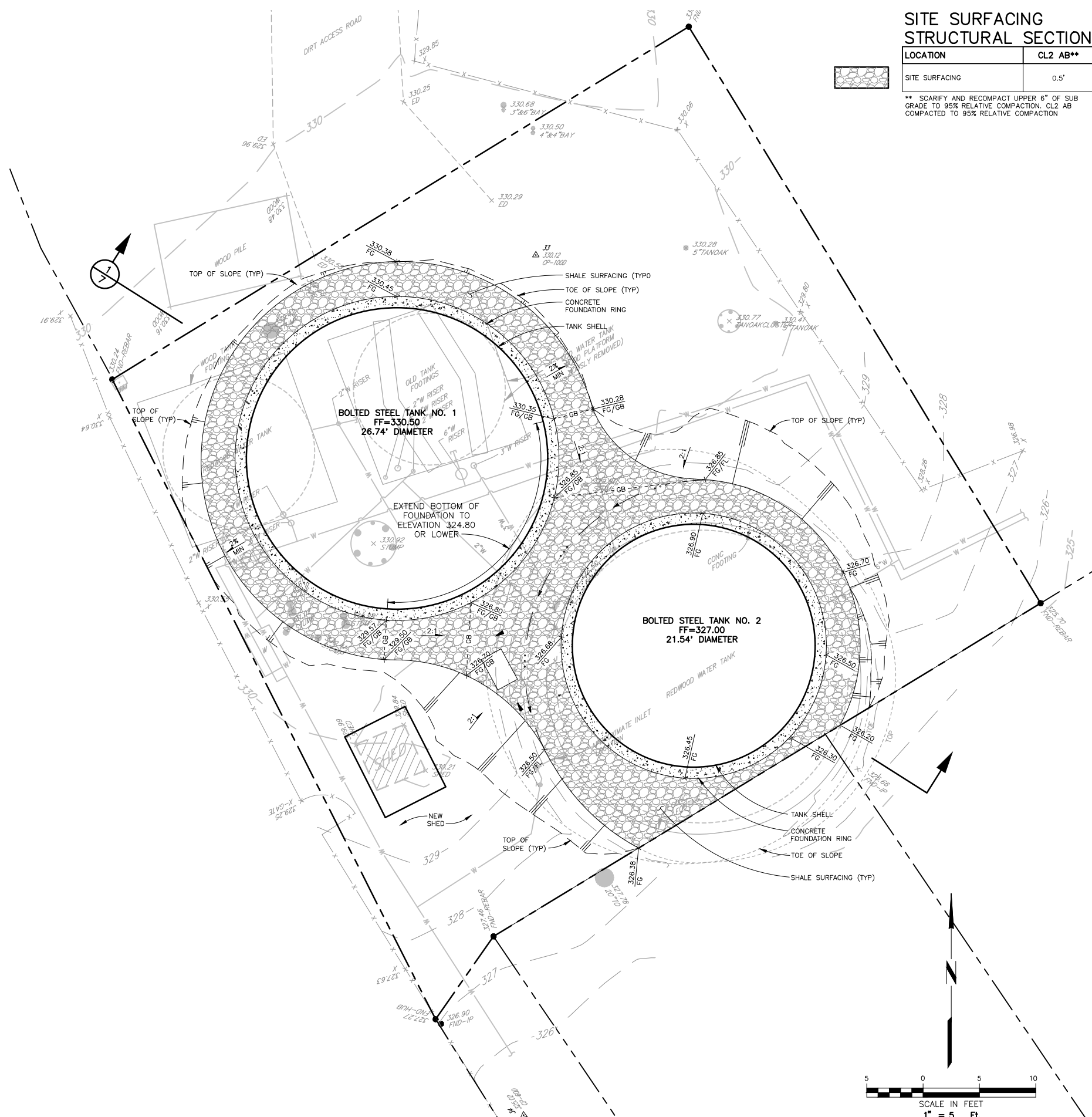
**INVERNESS PUBLIC
 UTILITY DISTRICT**

MARIN COUNTY, CALIFORNIA

**SITE SURFACING
 STRUCTURAL SECTION**

LOCATION	CL2 AB**
SITE SURFACING	0.5'

** SCARIFY AND RECOMPACT UPPER 6" OF SUB GRADE TO 95% RELATIVE COMPACTION. CL2 AB COMPACTED TO 95% RELATIVE COMPACTION



REVISIONS		
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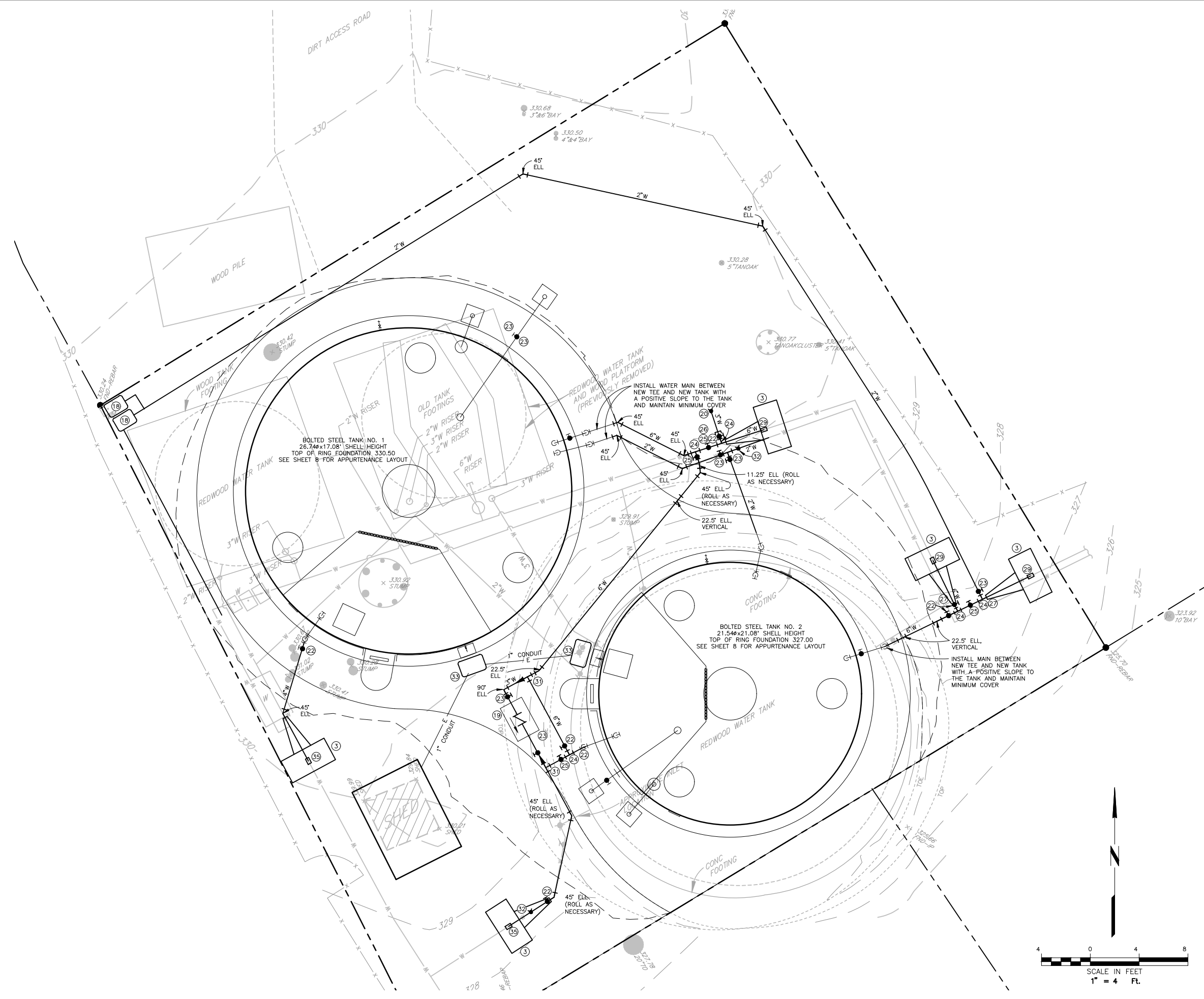
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PIT	BB

**SITE
 GRADING
 PLAN**

SHEET NO.

5 OF 12

01-13-21 brazer \\2630.dwg 2630 05\2630.05 \$Terry BASE.dwg TAB: 6-PIPING



NOTE

1. ALL PIPING JOINTS SHALL BE RESTRAINED EXCEPT WHERE CONNECTING TO EXISTING PIPING.

LEGEND

- 3 HARNESS TIE BACK
- 18 RELOCATED WATER SERVICE
- 19 3" CHECK VALVE. PER DETAIL SHEET 12
- 20 WHARF HYDRANT PER DETAIL SHEET 12
- 22 6" GATE VALVE, FLG x MJ
- 23 2" GATE VALVE
- 24 6" TEE, FLG
- 25 6" GATE VALVE, FLG
- 26 6" PLUG, MJ WITH 3" TAP
- 27 6" ADAPTER, FLG x MJ
- 29 6" SLEEVE MJ OR WIDE RANGE FLEXIBLE COUPLING
- 30 2" TEE, GSP
- 31 6" TEE, FLG WITH 6"x3" REDUCER FLG
- 32 3/4" BLOW-OFF (3/4" SADDLE, 3/4" BRASS PIPE, 3/4" BRASS BALL VALVE IN GATE VALVE VALVE BOX.)
- 33 B16 PULL BOX.
- 34 4" GATE VALVE FLGxMJ
- 35 4" SLEEVE MJ OR WIDE RANGE FLEXIBLE COUPLING AND ADAPTORS AS REQUIRED TO CONNECT EXISTING PIPING TO NEW PIPING.

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**TENNEY TANK SITE
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 REPLACEMENTS**

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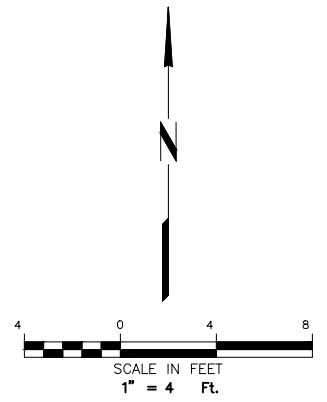
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**SITE
 PIPING
 PLAN**

SHEET NO.
6 OF **12**

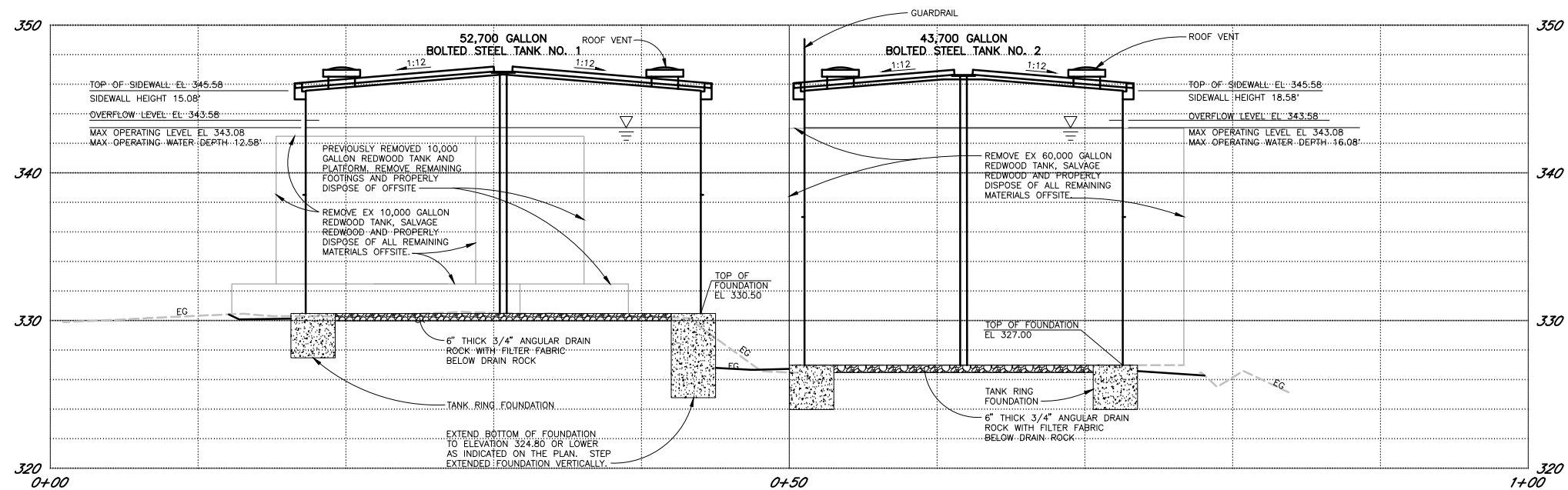




**TENNEY TANK SITE
 WATER TANK
 REPLACEMENTS**

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MARIN COUNTY, CALIFORNIA



SECTION 1
 SCALE: HORIZ. 1" = 5'
 VERT. 1" = 5'

REVISIONS		
NO.	DATE	DESCRIPTION

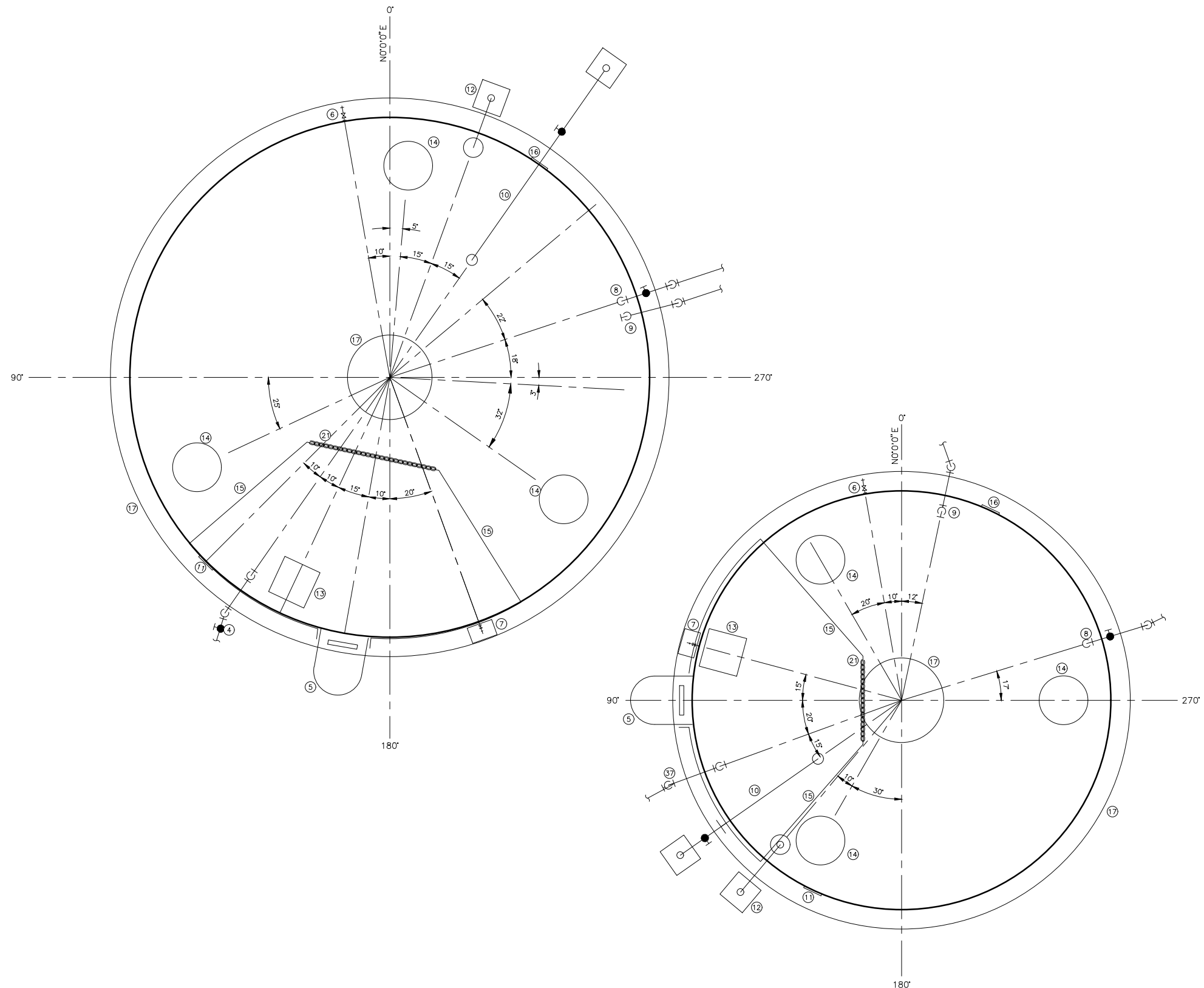
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**TANK
 SECTION**

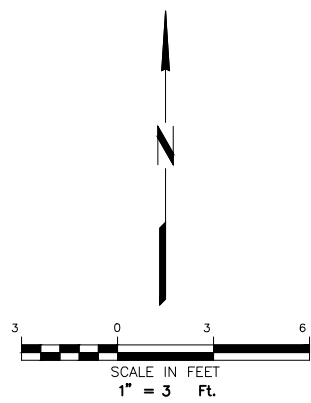
SHEET NO.
7 OF **12**

04-06-18 brazer \\2630.dwg 2630.05 2630.05 \$Tenny Tank-section.dwg TAB: 7-SEC



LEGEND

- ④ INLET PIPE (IP 10)
- ⑤ ACCESS LADDER (AL 11)
- ⑥ SAMPLE TAP (ST 10)
- ⑦ LEVEL TRANSMITTER (LT 11)
- ⑧ OUTLET PIPE (OP 10)
- ⑨ UPPER OUTLET PIPE (UO 10)
- ⑩ TANK DRAIN (DP 10)
- ⑪ SHELL MANWAY (MW 11)
- ⑫ INTERIOR OVERFLOW (IO 10)
- ⑬ ROOF HATCH (RH 11)
- ⑭ ROOF VENT (RV 11)
- ⑮ GUARDRAILS (AL 11)
- ⑯ 42" x 24" FLUSH CLEANOUT
- ⑰ TANK FOUNDATION (TF 11)
- ⑳ SAFETY CHAIN
- ㉑ LEVEL GAUGE
- ㉒ 6" INLET (6IP 10)



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**APPURTENANCE
 PLAN**

SHEET NO.
8 OF **12**

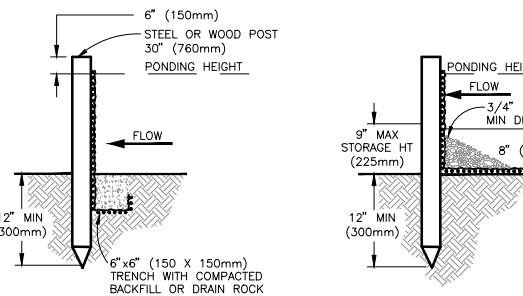
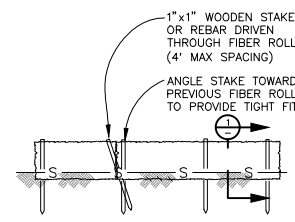
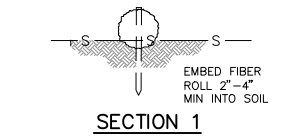
GENERAL NOTES

- PERFORM EROSION PREVENTION AND SEDIMENT CONTROL IN ACCORDANCE WITH THE LATEST EDITION OF APPENDIX CHAPTER 33 OF THE CALIFORNIA BUILDING CODE, APPLICABLE MARIN COUNTY REGULATIONS, AND SECTION 20 OF THE CALTRANS STANDARD SPECIFICATIONS.
 - PRESERVATION OF EXISTING VEGETATION SHALL OCCUR TO THE MAXIMUM EXTENT PRACTICABLE.
 - CHANGES TO THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN MAY BE MADE TO RESPOND TO FIELD CONDITIONS. CHANGES SHALL BE NOTED ON THE PLAN WHEN MADE.
 - EXPOSED SLOPES SHALL BE PROTECTED BY USING EROSION PREVENTION MEASURES TO THE MAXIMUM EXTENT PRACTICABLE, SUCH AS ESTABLISHING 70% VEGETATION COVERAGE, HYDROSEEDING, STRAW MULCH, GEOTEXTILES, PLASTIC COVERS, BLANKETS OR MATS.
 - HYDROSEEDING SHALL BE CONDUCTED IN A THREE STEP PROCESS. FIRST, EVENLY APPLY SEED MIX AND FERTILIZER TO THE EXPOSED SLOPE. SECOND, EVENLY APPLY MULCH OVER THE SEED AND FERTILIZER. THIRD, STABILIZE THE MULCH IN PLACE.
- APPLICATIONS SHALL BE BROADCAST MECHANICALLY OR MANUALLY AT THE RATES SPECIFIED BELOW. SEED MIX AND FERTILIZER SHALL BE WORKED INTO THE SOIL BY ROLLING OR TAMPING. IF STRAW IS USED AS MULCH, STRAW SHALL BE DERIVED FROM WHEAT, RICE OR BARLEY AND BE APPROXIMATELY 6 TO 8 INCHES IN LENGTH. STABILIZATION OF MULCH SHALL BE DONE HYDRAULICALLY BY APPLYING AN EMULSION OR MECHANICALLY BY CRIMPING OR PUNCHING THE MULCH INTO THE SOIL. EQUIVALENT METHODS AND MATERIALS MAY BE USED ONLY IF THE ADEQUATELY PROMOTE VEGETATION GROWTH AND PROTECT EXPOSED SLOPES.
- | MATERIALS | APPLICATION RATE (POUNDS PER ACRE) |
|--|------------------------------------|
| SEED MIX | |
| BROMUS MOLLIS (BLANDO BROME) | 40 |
| TRIFOLIUM HIRTUM (HYKON ROSE CLOVER) | 20 |
| FERTILIZER | |
| 16-20-0 & 15% SULPHUR | 500 |
| MULCH | |
| STRAW | 4000 |
| HYDRAULIC STABILIZING (NON-ASPHALTIC, DERIVED FROM PLANTS) | |
| M-BINDER OR SENTINEL | 75-100 |
| EQUIVALENT MATERIAL | PER MANUFACTURER |
- SOIL AND MATERIAL STOCKPILE SHALL BE PROPERLY PROTECTED TO MINIMIZE SEDIMENT AND POLLUTANT TRANSPORT FROM THE CONSTRUCTION SITE.
 - SOLID WASTE, SUCH AS TRASH, DISCARDED BUILDING MATERIALS AND DEBRIS, SHALL BE PLACED IN DESIGNATED COLLECTION AREAS OR CONTAINERS. THE CONSTRUCTION SITE SHALL BE CLEARED OF SOLID WASTE DAILY, OR AS NECESSARY, AND REGULAR REMOVAL AND PROPER DISPOSAL SHALL BE ARRANGED.
 - A CONCRETE WASHOUT AREA, SUCH AS A TEMPORARY PIT, SHALL BE DESIGNATED TO CLEAN CONCRETE TRUCKS AND TOOLS. AT NO TIME SHALL CONCRETE PRODUCTS AND WASTE BE ALLOWED TO ENTER COUNTY WATERWAYS SUCH AS CREEKS OR STORM DRAINS.
 - PROPER APPLICATION, CLEANING AND STORAGE OF POTENTIALLY HAZARDOUS MATERIALS, SUCH AS PAINTS AND CHEMICALS, SHALL BE CONDUCTED TO PREVENT THE DISCHARGE OF POLLUTANTS.
 - WHEN UTILIZED, TEMPORARY BATHROOMS AND SANITARY FACILITIES SHALL BE LOCATED AND MAINTAINED TO PREVENT THE DISCHARGE OF POLLUTANTS.
 - APPROPRIATE VEHICLE STORAGE, FUELING, MAINTENANCE AND CLEANING AREAS SHALL BE DESIGNATED AND MAINTAINED TO PREVENT DISCHARGE OF POLLUTANTS.

NOTES

- SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
- INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. 9" (225mm) MAXIMUM RECOMMENDED STORAGE HEIGHT.
- REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

EXTRA STRENGTH FILTER FABRIC NEEDED WITHOUT WIRE MESH SUPPORT
STEEL OR WOOD POST
ATTACH FILTER FABRIC SECURELY TO UPSTREAM SIDE OF POST



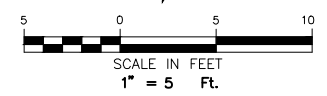
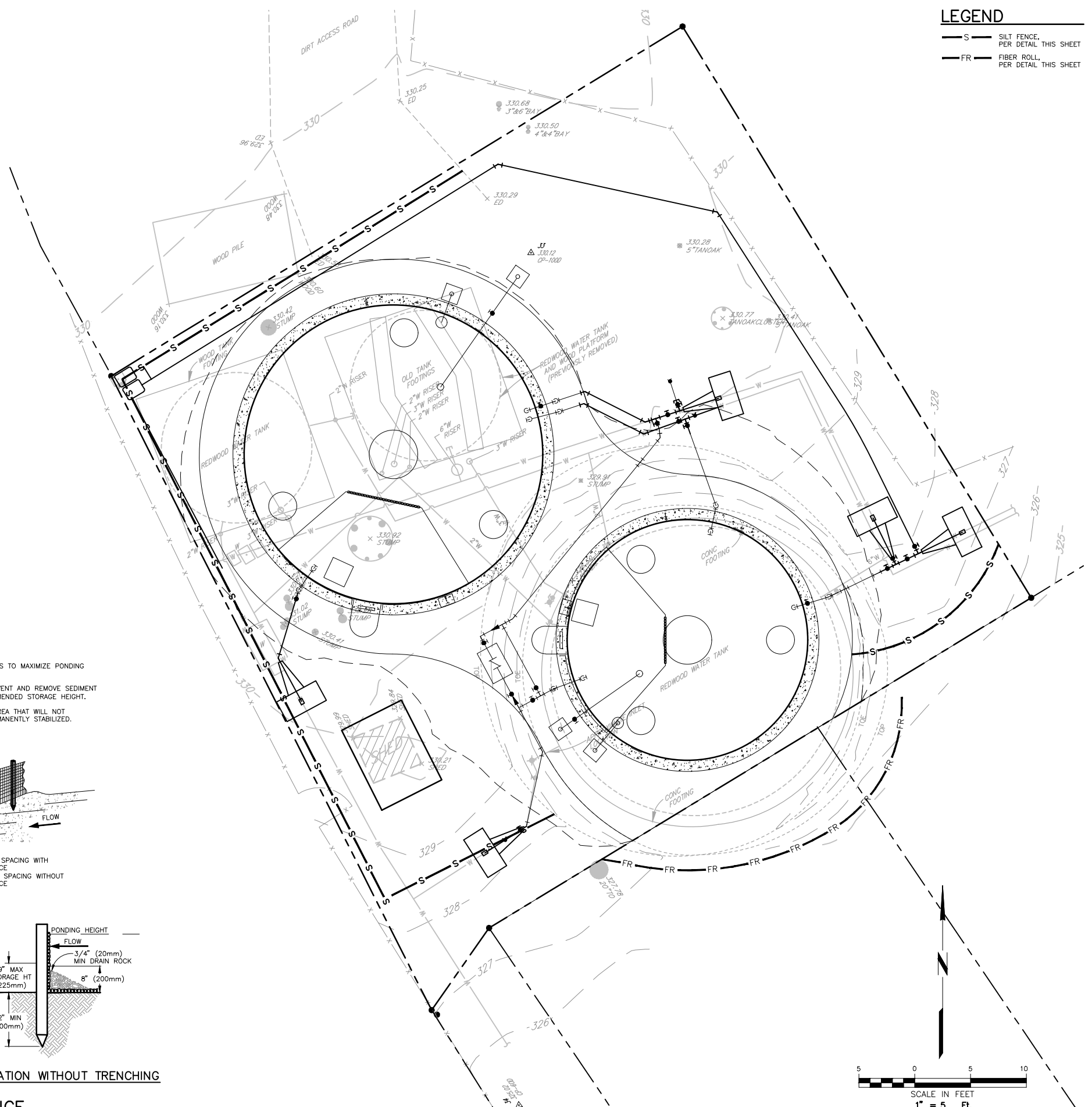
- ### NOTES
- THE FIBER ROLLS SHALL BE PLACED ON SLOPE CONTOUR.
 - FIBER ROLLS TO BE PLACED IN A ROW WITH THE ENDS TIGHTLY ABUTTING. USE STRAW, ROCKS, OR FILTER FABRIC TO FILL GAPS BETWEEN THE FIBER ROLLS AND TAMP THE BACKFILL MATERIAL TO PREVENT EROSION OR FLOW AROUND FIBER ROLLS.

FIBER ROLL DETAIL
NOT TO SCALE

TRENCH DETAIL
INSTALLATION WITHOUT TRENCHING
SILT FENCE
NOT TO SCALE

LEGEND

- S SILT FENCE, PER DETAIL THIS SHEET
- FR FIBER ROLL, PER DETAIL THIS SHEET



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EROSION CONTROL PLAN

SHEET NO.

9 OF **12**

01-13-21 brazier \2630.dwg 2630 05 2630.05 \$Terry BASE.dwg TAB: 9-EROSION CONTROL PLAN



**TENNEY TANK SITE
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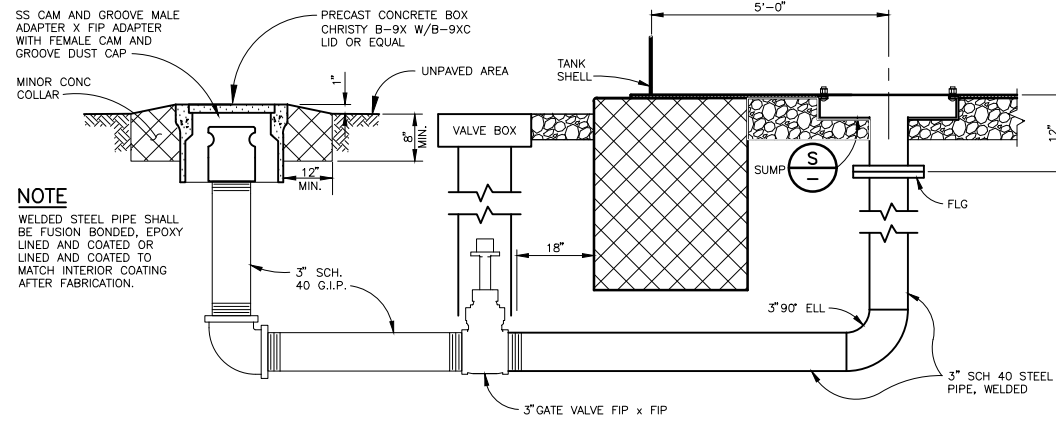
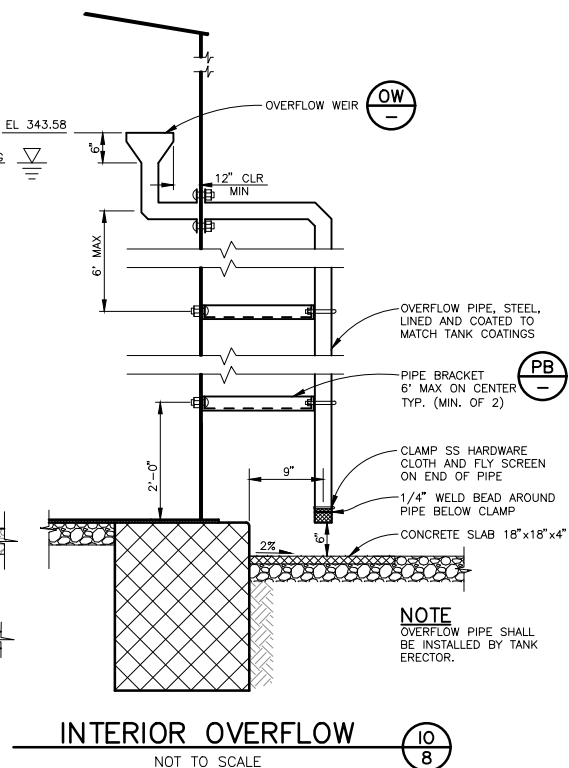
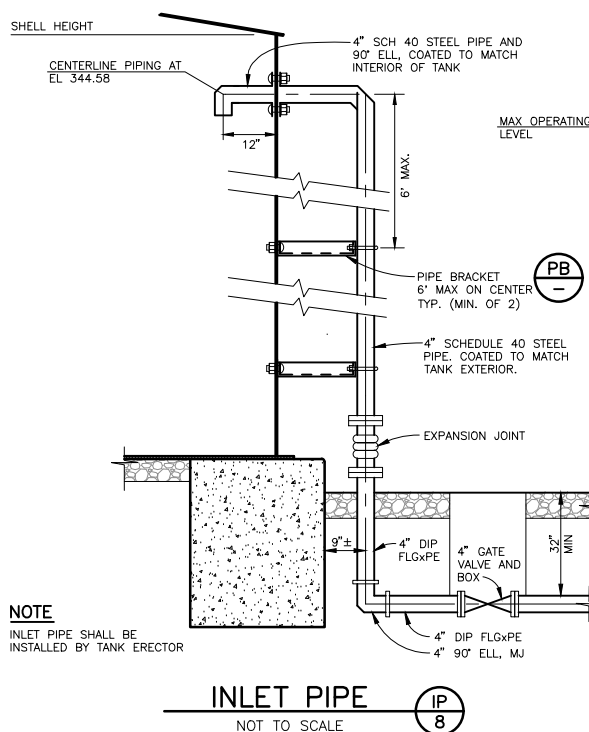
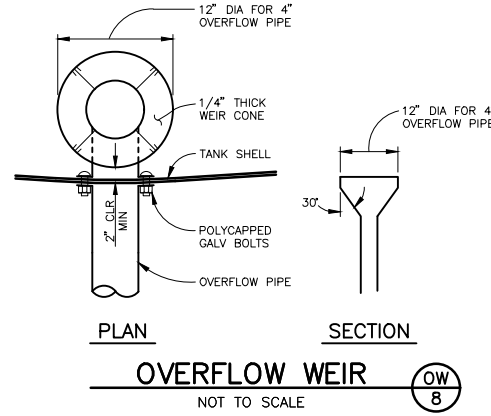
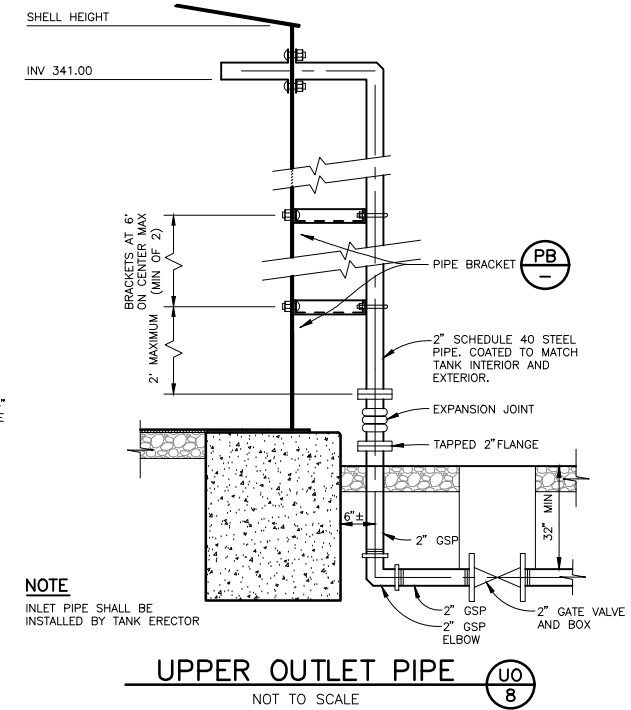
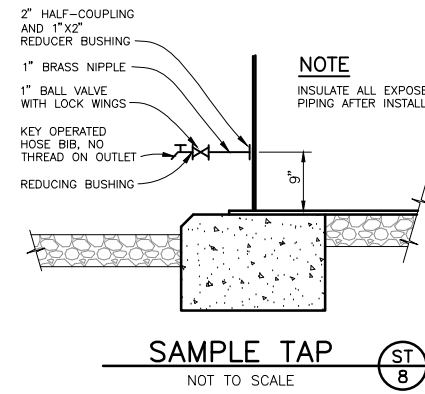
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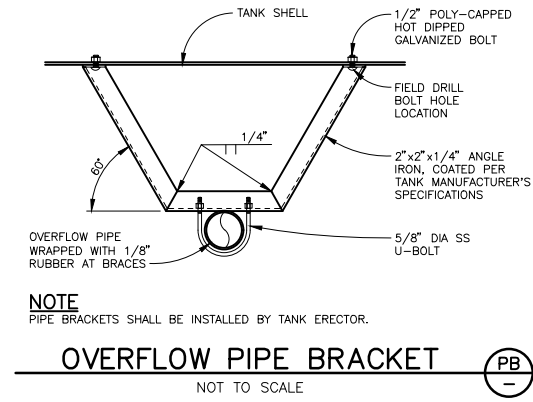
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**TANK
DETAILS**

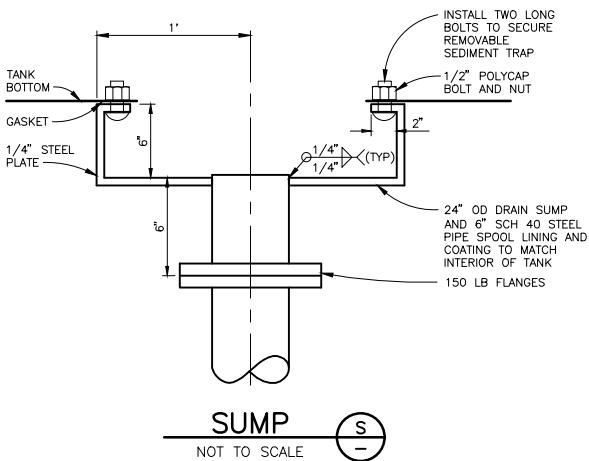
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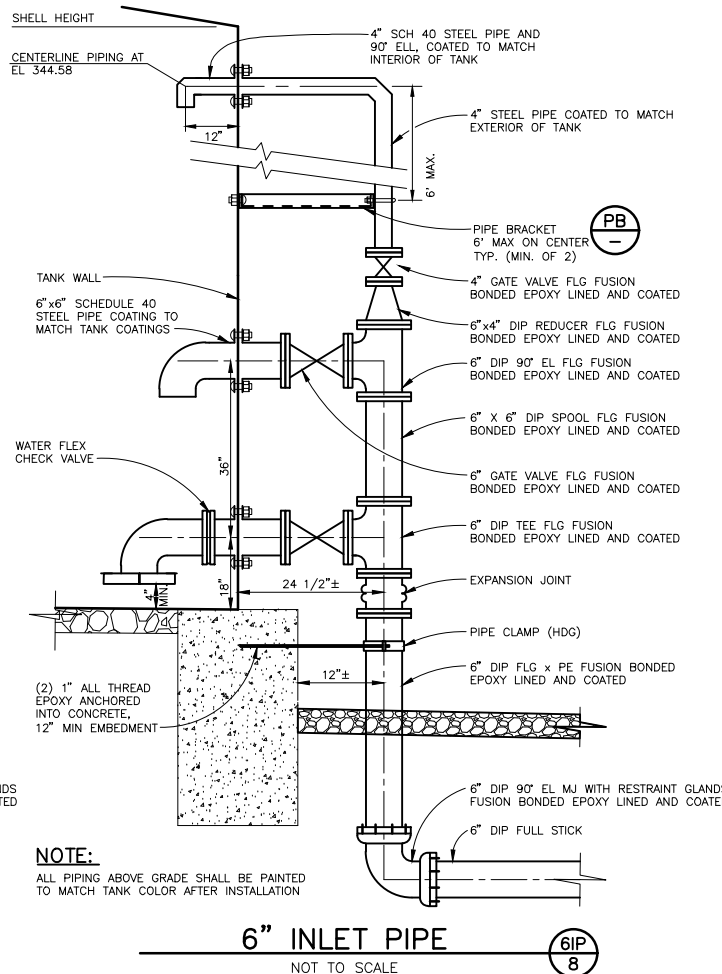
TANK DRAIN
NOT TO SCALE



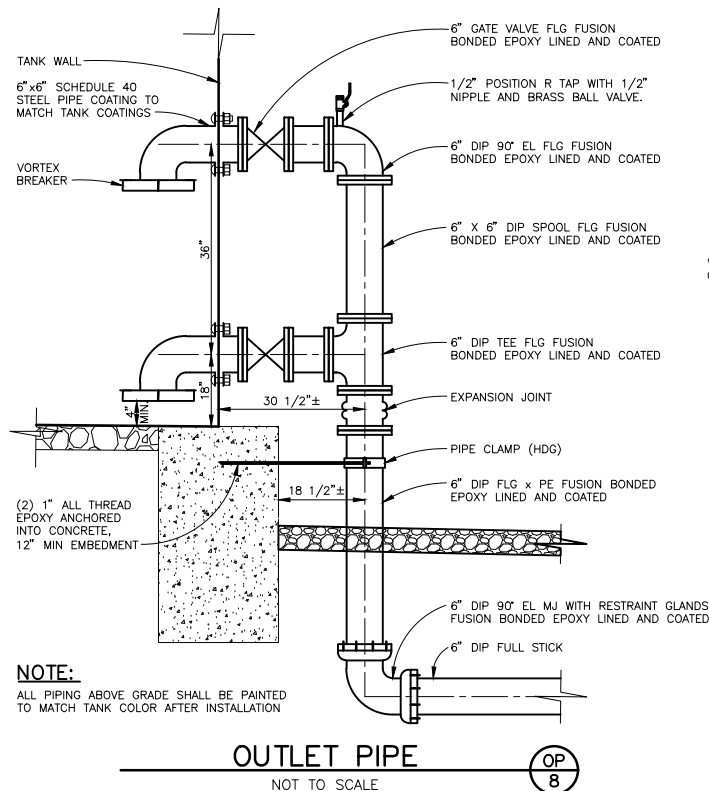
OVERFLOW PIPE BRACKET
NOT TO SCALE



SUMP
NOT TO SCALE



6 INCH INLET PIPE
NOT TO SCALE



OUTLET PIPE
NOT TO SCALE



**TENNEY TANK SITE
 WATER TANK
 REPLACEMENTS**
**INVERNESS PUBLIC
 UTILITY DISTRICT**
 MARIN COUNTY, CALIFORNIA

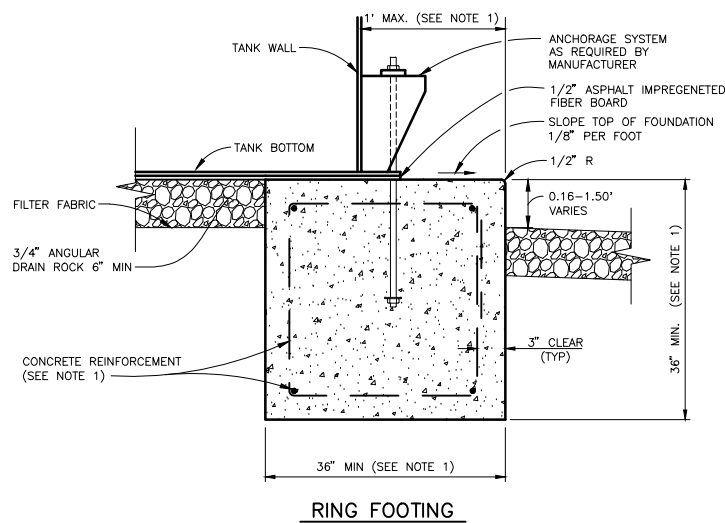
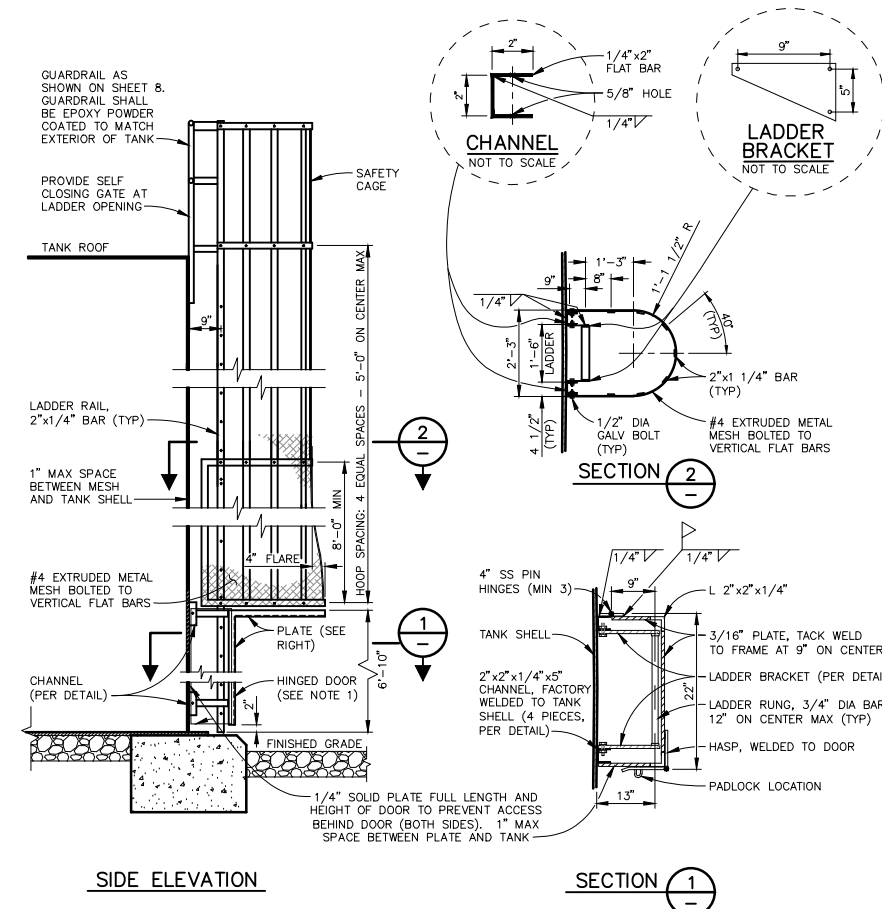
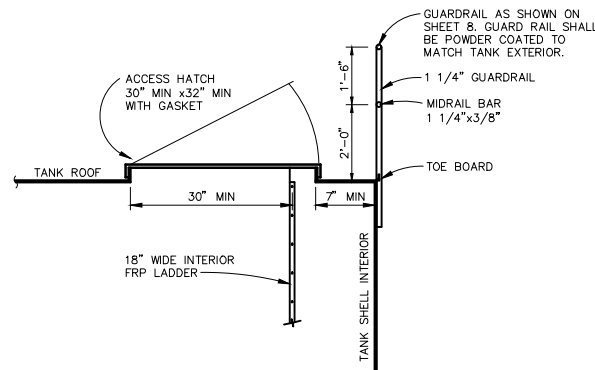
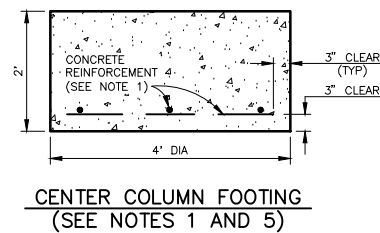
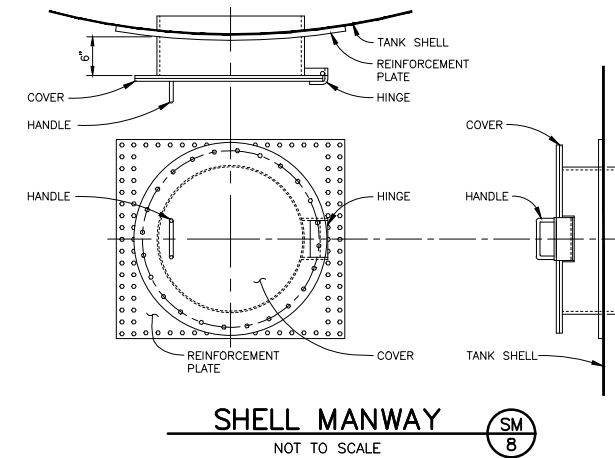
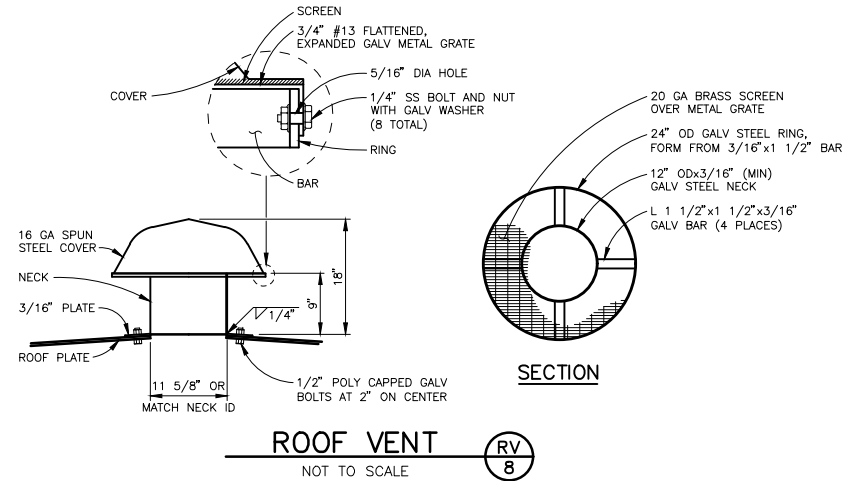
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ON A FULL-SCALE DRAWING, LENGTH OF BAR BELOW IS 1-INCH. IF BAR MEASURES LESS THAN 1-INCH, THIS SHEET WAS PLOTTED AT A REDUCED SCALE, WHICH MAY REQUIRE ADJUSTMENT OF SCALE(S) SHOWN ON DRAWING.

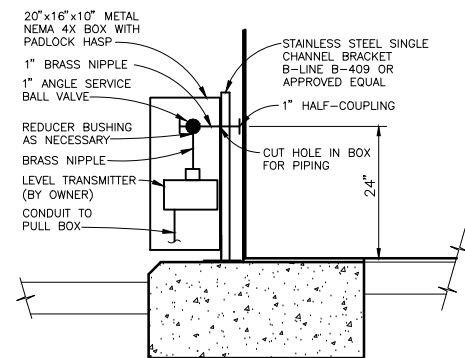
PROJECT 2630.05	DATE JANUARY 2021
DRAWN BY PIT	CHECKED BY BB

**TANK
 DETAILS**

SHEET NO.



NOTES
 1. USE POLY CAPPED BOLTS AND NUTS FOR LADDER INSTALLATION.

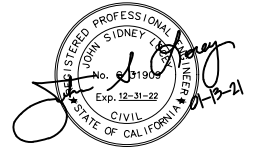


NOTES
 1. INSULATE ALL PIPING AFTER INSTALLATION.
 2. MOUNT LEVEL TRANSMITTER WITH PANEL MOUNTING BRACKET

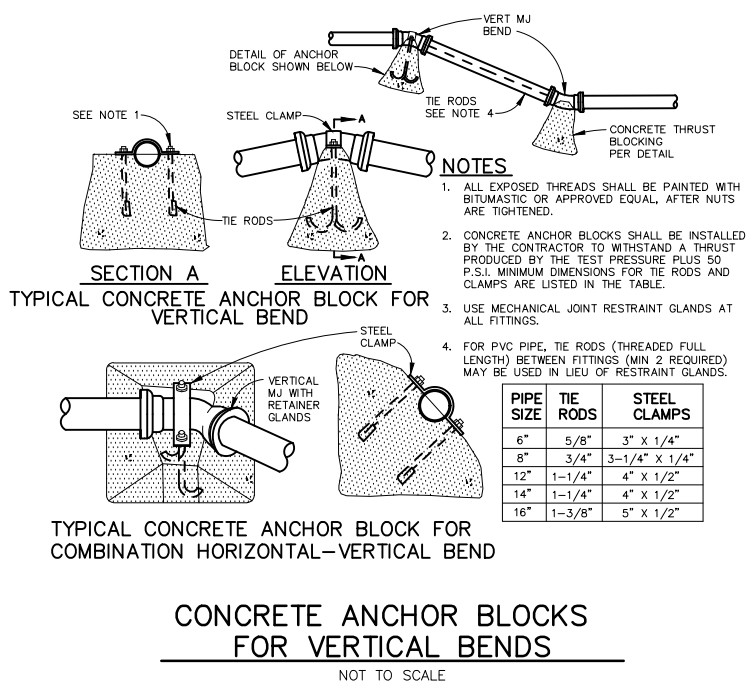
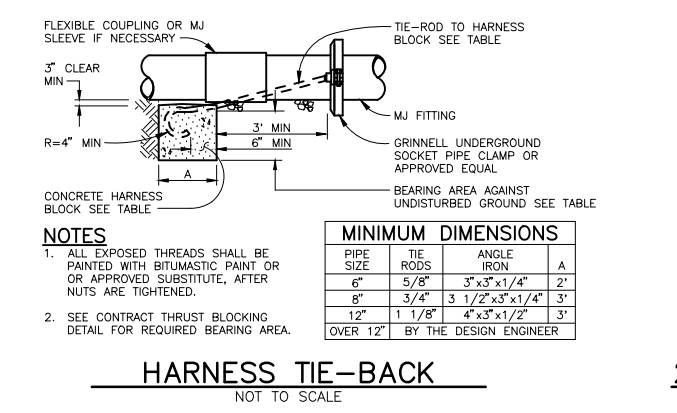
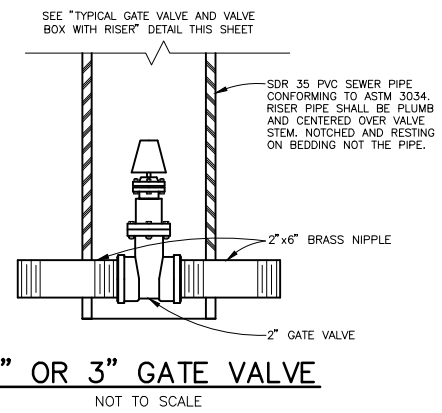
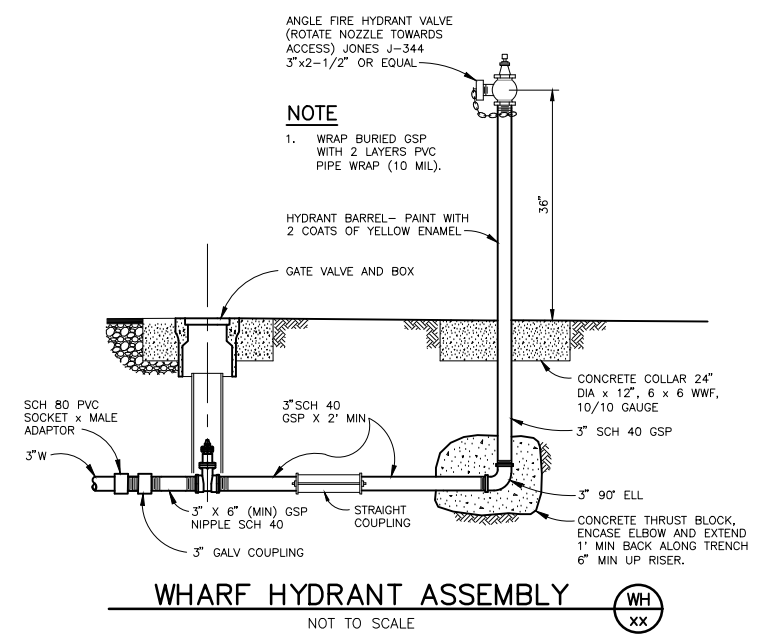
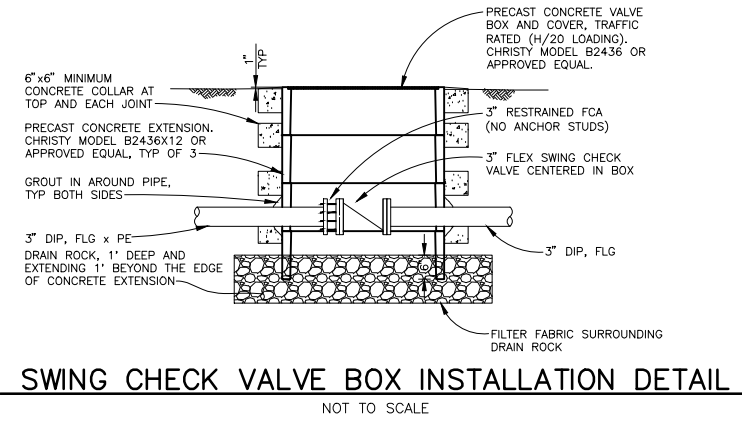
NOTES
 1. FOUNDATION DIMENSIONS AND DETAILS, INCLUDING CENTER COLUMN FOOTING, SHALL BE DESIGNED BY THE TANK MANUFACTURER PRIOR TO CONSTRUCTION. STAMPED ENGINEERING CALCULATIONS FOR THE FOUNDATION DESIGN, INCLUDING SEISMIC, SHALL BE SUBMITTED TO THE OWNER FOR REVIEW PRIOR TO CONSTRUCTION. SEE PLAN FOR AREAS REQUIRING FOUNDATION DEPTHS GREATER THAN THE MINIMUM SHOWN ON THIS DETAIL.
 2. FOUNDATION CONDITIONS SHALL BE REVIEWED BY A GEOTECHNICAL ENGINEER TO VERIFY DESIGN SOIL BEARING PRESSURE UPON COMPLETION OF FOUNDATION EXCAVATION, BUT PRIOR TO FOUNDATION CONSTRUCTION.
 3. FOUNDATION SHALL EXTEND 6" INTO FIRM BEDROCK OR ENGINEERED FILL IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT, UNLESS MODIFIED BY A GEOTECHNICAL ENGINEER UPON REVIEWING FOUNDATION EXCAVATION.
 4. FOUNDATION BOTTOM SHALL BE LEVEL. CHANGES IN HEIGHT SHALL BE MADE BY STEPPING, FOUNDATION SHOP DRAWING SHALL DETAIL STEPS.
 5. CENTER COLUMN FOOTING REQUIRED ONLY IF CENTER COLUMN IS NEEDED.
 6. REINFORCEMENT SHALL BE IN ACCORDANCE WITH APPROVED FOUNDATION DESIGN DRAWINGS AND TYPICAL CONCRETE REINFORCEMENT DETAILS THIS SHEET.



01-13-21 kfrizghi \\2630.dwg 2630.05 2630.05 \$Tenny details.dwg TAB: 11-TANK DETAILS



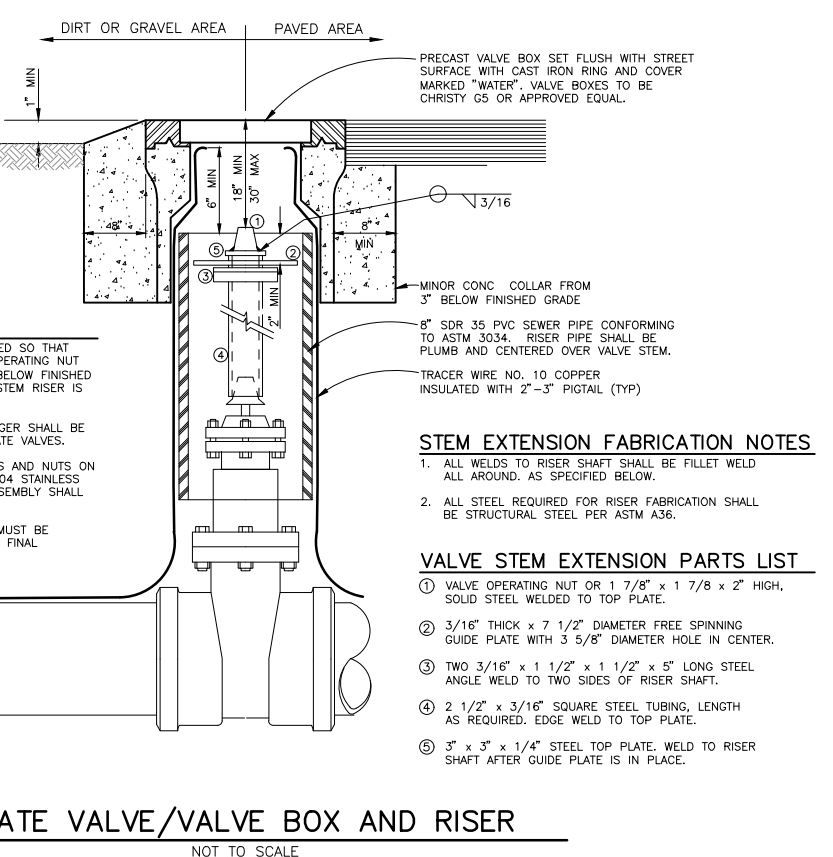
**TENNEY TANK SITE
WATER TANK
REPLACEMENTS**
**INVERNESS PUBLIC
UTILITY DISTRICT**
MARIN COUNTY, CALIFORNIA



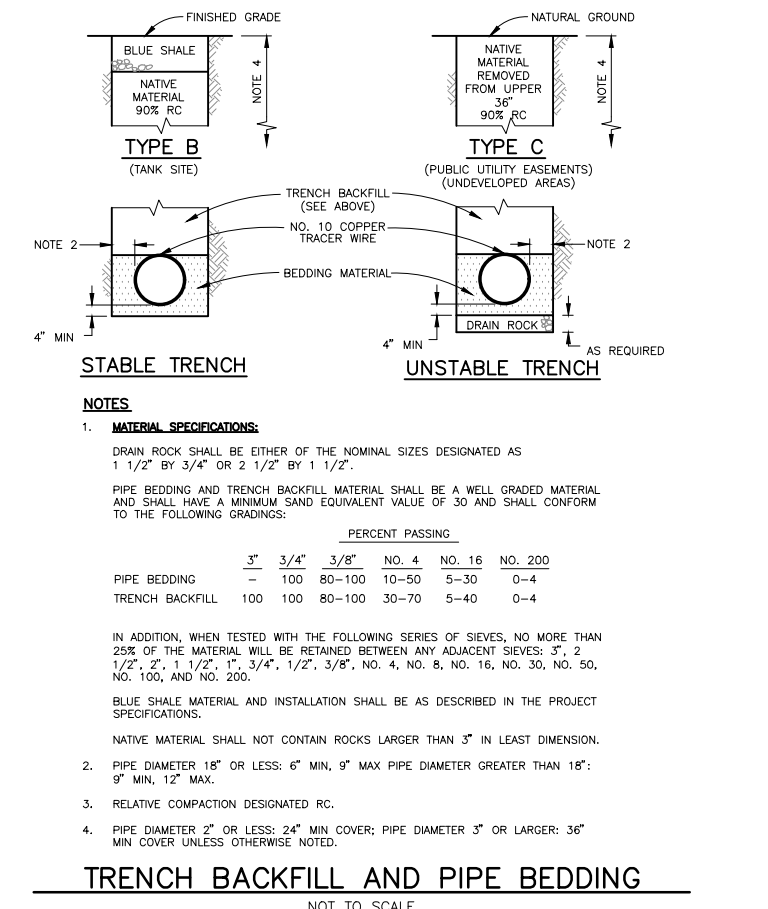
NOTES

- ALL EXPOSED THREADS SHALL BE PAINTED WITH BITUMASTIC OR APPROVED EQUAL, AFTER NUTS ARE TIGHTENED.
- CONCRETE ANCHOR BLOCKS SHALL BE INSTALLED BY THE CONTRACTOR TO WITHSTAND A THRUST PRODUCED BY THE TEST PRESSURE PLUS 50 P.S.I. MINIMUM DIMENSIONS FOR THE RODS AND CLAMPS ARE LISTED IN THE TABLE.
- USE MECHANICAL JOINT RESTRAINT GLANDS AT ALL FITTINGS.
- FOR PVC PIPE, TIE RODS (THREADED FULL LENGTH) BETWEEN FITTINGS (MIN 2 REQUIRED) MAY BE USED IN LIEU OF RESTRAINT GLANDS.

PIPE SIZE	TIE RODS	STEEL CLAMPS
6"	5/8"	3" X 1/4"
8"	3/4"	3-1/4" X 1/4"
12"	1-1/4"	4" X 1/2"
14"	1-1/4"	4" X 1/2"
16"	1-3/8"	5" X 1/2"



- NOTES**
- SAFE BEARING LOAD OF SOIL FOR HORIZONTAL THRUST SHALL NOT BE EXCEEDED.
 - CONCRETE BLOCKING, CAST-IN-PLACE, TO EXTEND FROM BELLS OF FITTINGS TO UNDISTURBED SOIL AND ENTIRE BEARING AREA MUST BE AGAINST UNDISTURBED SOIL.
 - FOR PLUGGED LEG(S) OF TEE OR CROSS, USE HARNESS TYPE BLOCKING AND CONCRETE BLOCKING INDICATED IN TABLE.
- MINIMUM DIMENSIONS**
- | PIPE SIZE | TIE RODS | ANGLE IRON | A |
|-----------|----------|----------------|----|
| 6" | 5/8" | 3"x3"x1/4" | 2' |
| 8" | 3/4" | 3 1/2"x3"x1/4" | 3' |
| 12" | 1 1/8" | 4"x3"x1/2" | 3' |
- OVER 12" BY THE DESIGN ENGINEER
- STEM EXTENSION FABRICATION NOTES**
- ALL WELDS TO RISER SHAFT SHALL BE FILLET WELD ALL AROUND, AS SPECIFIED BELOW.
 - ALL STEEL REQUIRED FOR RISER FABRICATION SHALL BE STRUCTURAL STEEL PER ASTM A36.
- VALVE STEM EXTENSION PARTS LIST**
- VALVE OPERATING NUT OR 1 7/8" x 1 7/8" x 2" HIGH, SOLID STEEL WELDED TO TOP PLATE.
 - 3/16" THICK x 7 1/2" DIAMETER FREE SPINNING GUIDE PLATE WITH 3 5/8" DIAMETER HOLE IN CENTER.
 - TWO 3/16" x 1 1/2" x 1 1/2" x 5" LONG STEEL ANGLE WELD TO TWO SIDES OF RISER SHAFT.
 - 2 1/2" x 3/16" SQUARE STEEL TUBING, LENGTH AS REQUIRED, EDGE WELD TO TOP PLATE.
 - 3" x 3" x 1/4" STEEL TOP PLATE, WELD TO RISER SHAFT AFTER GUIDE PLATE IS IN PLACE.



NOTES

- MATERIAL SPECIFICATIONS:**
DRAIN ROCK SHALL BE EITHER OF THE NOMINAL SIZES DESIGNATED AS 1 1/2" BY 3/4" OR 2 1/2" BY 1 1/2".
PIPE BEDDING AND TRENCH BACKFILL MATERIAL SHALL BE A WELL GRADED MATERIAL AND SHALL HAVE A MINIMUM SAND EQUIVALENT VALUE OF 30 AND SHALL CONFORM TO THE FOLLOWING GRADINGS:

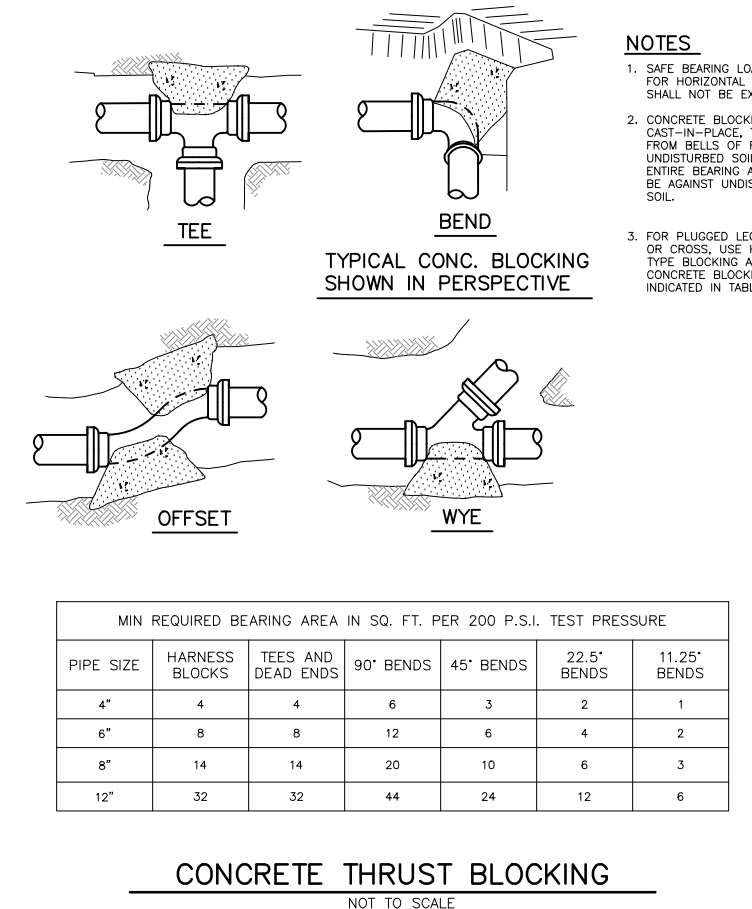
	PERCENT PASSING					
	3"	3/4"	3/8"	NO. 4	NO. 16	NO. 200
PIPE BEDDING	100	80-100	10-50	5-30	0-4	0-4
TRENCH BACKFILL	100	100	80-100	30-70	5-40	0-4

IN ADDITION, WHEN TESTED WITH THE FOLLOWING SERIES OF SIEVES, NO MORE THAN 25% OF THE MATERIAL WILL BE RETAINED BETWEEN ANY ADJACENT SIEVES: 3", 2 1/2", 2", 1 1/2", 1", 3/4", 1/2", 3/8", NO. 4, NO. 8, NO. 16, NO. 30, NO. 50, NO. 100, AND NO. 200.

BLUE SHALE MATERIAL AND INSTALLATION SHALL BE AS DESCRIBED IN THE PROJECT SPECIFICATIONS.

NATIVE MATERIAL SHALL NOT CONTAIN ROCKS LARGER THAN 3" IN LEAST DIMENSION.

- PIPE DIAMETER 18" OR LESS: 6" MIN, 9" MAX PIPE DIAMETER GREATER THAN 18": 9" MIN, 12" MAX.
- RELATIVE COMPACTION DESIGNATED RC.
- PIPE DIAMETER 2" OR LESS: 24" MIN COVER; PIPE DIAMETER 3" OR LARGER: 36" MIN COVER UNLESS OTHERWISE NOTED.



MIN REQUIRED BEARING AREA IN SQ. FT. PER 200 P.S.I. TEST PRESSURE

PIPE SIZE	HARNESS BLOCKS	TEES AND DEAD ENDS	90° BENDS	45° BENDS	22.5° BENDS	11.25° BENDS
4"	4	4	6	3	2	1
6"	8	8	12	6	4	2
8"	14	14	20	10	6	3
12"	32	32	44	24	12	6

REVISIONS

NO.	DATE	DESCRIPTION

ON A FULL-SCALE DRAWING, LENGTH OF BAR BELOW IS 1-INCH. IF BAR MEASURES LESS THAN 1-INCH, THIS SHEET WAS PLOTTED AT A REDUCED SCALE, WHICH MAY REQUIRE ADJUSTMENT OF SCALE(S) SHOWN ON DRAWING.

PROJECT	DATE
2630.05	JANUARY 2021
DRAWN BY	CHECKED BY
PIT	BB

SECTION "J"

PERMITS

TENNEY TANK SITE WATER TANK REPLACEMENTS
INVERNESS PUBLIC UTILITY DISTRICT

GENERAL

The Contractor shall be responsible for compliance with all provisions of the permits, including sufficient notification to the proper agencies before work begins.

If there is a difference between the permit requirements and the Contract Drawings and Specifications, the Contractor shall request, in writing, a clarification from the Engineer.

If, in the course of construction, other permits are required, it will be the Contractor's responsibility to obtain them and pay all fees therefor.

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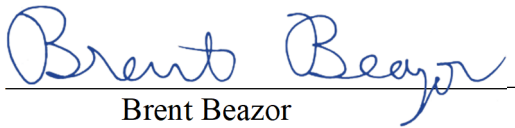
ADDENDUM NO. 1

to

Proposal, Contract Documents
and Specifications for

Tenney Tank Site Water Tank Replacements
Inverness, California

BID TIME AND DATE: 2 pm February 17, 2021


Brent Beazor

February 11, 2021

Date

NOTE: THIS ADDENDUM CONSISTS OF TEN (2) PAGES, SEVENTY-EIGHT (78) ATTACHED PAGES, AND THE PREBID SIGN-IN SHEET

In accordance with Addendum provisions on Page C-3, the following changes, additions and corrections are provided:

Page C-8

The current Davis Bacon Act wage rates are attached hereto as Attachment A.

Page H-2, Item No. 8

Insert the word “tap” after the words “level transducer”

Sheet 2 of 12

Insert the following note after Note 8 of General Notes.

- “9. A geotechnical investigation was conducted for the project by the project geotechnical engineer Bauer Associates Geotechnical Consultants. A geotechnical report was prepared, titled “Tenney Tank Site, Inverness, California” dated May 13, 2010. A subsequent supplemental geotechnical consultation letter was prepared dated September 29, 2020. The contractor shall coordinate with the owner to schedule the geotechnical engineer no less than 48 hours before start of site excavations and 24 hours for any subsequent site visits.”

Sheet 5 of 12

Add the two following sentences after the second sentence of the note just below the Site Surfacing Structural Section that ends with “TO 95% RELATIVE COMPACTION”

“Weak soils, if identified by the project Geotechnical Engineer, shall be removed to the full depth of the weak soils and replaced with recompactable acceptable native material or compacted imported material. Removal and recompaction shall be as recommended by the Geotechnical Engineer.”

Page J-2

Insert the attached Section “K”, Supplemental geotechnical consultation letter and geotechnical report after section J page J-2.

SECTION "K"

GEOTECHNICAL INVESTIGATION REPORT

TENNEY TANK SITE WATER TANK REPLACEMENTS

INVERNESS PUBLIC UTILITIES DISTRICT

A geotechnical investigation was conducted for the project by the project geotechnical engineer Bauer Associates Geotechnical Consultants. A geotechnical report was prepared, titled "Tenney Tank Site, Inverness, California" dated May 13, 2010. A subsequent supplemental geotechnical consultation letter was prepared dated September 29, 2020.

The investigation was completed by a geotechnical Engineer of subsurface conditions for the purpose of design. Neither the Owner or the Owner's Representative assume any responsibility whatever in respect to the sufficiency or accuracy of, borings or of the log of test borings, or of other investigation that have been made, or of the interpretations made thereof, and there is no warranty or guarantee, either expressed or implied, that the conditions indicated by such investigations are representative of those existing throughout the area, or any part thereof, or that unlooked for developments may not occur.

Any logs of test borings or topographic maps showing a record of the data obtained by the Owner's Representative's investigations of surface and subsurface conditions that are made available or bound herewith shall not be considered a part of the Contract Documents, said logs representing only the opinion of the Owner's Representative as to the character of the materials encountered by him in his investigations and are provided only for the convenience of the bidders.

Information derived from inspection of logs of test borings, of topographic maps or from Drawings showing locations of utilities and structures will not in any way relieve the Contractor from any risk, or from properly examining the site and making such additional investigations as he may elect, or from properly fulfilling all the terms of the Contract Documents.

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GEOTECHNICAL CONSULTANTS

September 29, 2020
Job No. 2719.5

Mr. Jim Fox
Inverness Public Utility District
P.O. Box 469
Inverness, CA 94937

Supplemental Geotechnical Consultation
Tenny Tank Site
Inverness Public Utility District
Inverness, California

This letter transmits the results of our supplemental geotechnical consultation for the subject project. We previously performed a geotechnical investigation at the site and transmitted the results in our report dated May 13, 2010. The purpose of our work was to update our previous report to conform with the 2019 California Building Code. We are providing our services as authorized by you on September 23, 2020.

We have reviewed our previous work on the subject site. Based on the results of our work, we judge that the conclusions and recommendations presented in the previously referenced report remain generally applicable to the site. We developed the following updated seismic design criteria following the 2019 California Building Code (CBC) guidelines.

Seismic Design Criteria

Using Google Earth site latitude and longitude coordinates of 38.097183° N and -122.863561° W, respectively, the following seismic design criteria is based on 2019 CBC guidelines, ASCE 7-16 and the USGS Earthquake Ground Motion Parameters:

Spectral Response Acceleration	g
S _s (0.2 sec.)	2.401
S ₁ (1.0 sec.)	1.006
S _{DS} (0.2 sec.)	1.921
S _{D1} (1.0 sec.)	0.939
Peak Ground Acceleration (PGA)	1.026
Seismic Design Category	*F

* - based on Risk Category IV

Westside Center
6470 Mirabel Road
Post Office Box 460
Forestville, CA 95436
707.887.2505

Tenny Tank Site
Job No. 2719.5
September 29, 2020
Page 2

Title 24, Part 2, Section 1613.2.2, of the 2019 CBC indicates that site categorization for seismic design should be based on the average soil values within the upper 100 feet of the site. Although the scope of our investigation was limited to relatively shallow test holes, we estimate that a Site Classification "C" will be appropriate for design. Upon request, we could perform supplemental calculations or exploration to determine the site specific subsurface conditions ranging to 100 feet.

Retaining Walls

Retaining walls should be designed in accordance with the recommendations presented in our geotechnical investigation report except as noted below. Where applicable, a seismic wall stability may be evaluated based on a uniform lateral earth pressure of $16xH$ psf (where H is the height of the wall in feet). This pressure is in addition to the active equivalent fluid pressures presented in this report. This force should be considered to act at a height of $0.33H$ on the wall. For restrained walls, seismic pressures may be assumed to act in combination with active rather than at-rest earth pressures. The factor of safety against instability under seismic loading should be at least 1.1.

We should be contacted to review the completed project plans. We should observe the start of construction to note the conditions exposed and provide recommendations to the contractor. We will observe the geotechnical and special inspection related items on an "on-call" basis. We can not comment on the adequacy of items we are not contacted to observe. We must be provided with at least 48 hours notice for scheduling our initial site visit, and 24 hours thereafter.

We trust this provides the information you require at this time. If you have questions or wish to discuss this further, please call.

Very truly yours,

BAUER ASSOCIATES, INC.



Bryce Bauer
Geotechnical Engineer



BB (consult/tenny tank site update)
Email only



GEOTECHNICAL CONSULTANTS

REPORT
GEOTECHNICAL INVESTIGATION
Tenny Tank Site
Inverness Public Utility District
50 Inverness Way
Inverness, California

Prepared for:

Mr. Scott McMorrow
Inverness Public Utility District
P.O. Box 469
Inverness, California 94937

by

BAUER ASSOCIATES

Job No. 2719.0

A handwritten signature in black ink, appearing to read 'Chris Kramer', written over a horizontal line.

Christopher L. Kramer
Engineering Geologist - 1231

A handwritten signature in black ink, appearing to read 'Bryce Bauer', written over a horizontal line.

Bryce Bauer
Geotechnical Engineer



May 13, 2010

Copyright 2010 Bauer Associates

Westside Center
Post Office Box 460
Forestville, CA 95436
707.887.2505 (V)
707.887.9756 (F)

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LIST OF ILLUSTRATIONS

Plate 1	Site Plan
Plates 2 - 4	Logs of Test Borings 1 through 3
Plate 5	Soil Classification Chart and Key to Test Data
Plate 6	Rock Classification Criteria
Plate 7	Wall Drainage Detail

INTRODUCTION

This report presents the results of our geotechnical investigation for the subject planned tank. The site is located northwest of the Perth Way and Trossach Way intersection in Inverness, California. The tank is indicated on a site plan prepared by Brelje & Race, dated April 2010. The site plan is partially reproduced and presented on Plate 1.

We understand that the planned 60,000-gallon tank will be supported on a reinforced slab foundation. Foundation loads are expected to be typical for the type of construction indicated. We understand that unretained cuts and fills will be relatively minor and less than about 2 feet high.

The development area was previously investigated for a former tank configuration and the results of that work was summarized in a March 8, 1985 report prepared by Harding Lawson Associates. The purpose of our work has been to perform a supplemental investigation to provide updated information for design and construction of the currently planned tank.

The scope of our investigation, as outlined in our March 15, 2010, agreement, included reviewing selected published geologic information from our files, exploring subsurface conditions at the site, and performing laboratory testing on selected samples.

Based on the geological review, the results of our field and laboratory work, and engineering analyses, we have developed the following geotechnical information concerning:

1. Proximity of the site to published active faults.
2. Soil/rock and ground water conditions observed.
3. Site preparation and grading.
4. Foundation type(s) and design criteria.
5. Concrete slabs-on-grade.
6. Retaining walls.
7. Geotechnical engineering drainage.
8. Supplemental services.

During our investigation, we consulted with Mr. Brent Beazor of Brelje & Race to provide preliminary information as it was developed. Our scope of work did not include evaluation of any potential hazardous waste contamination or corrosion potential of the soil or groundwater at the site. Further, our scope of services did not include evaluation of areas beyond the planned development discussed above.

WORK PERFORMED

We reviewed the published geologic information summarized in the List of References as well as our previous work from other projects in the vicinity.

Our engineering geologist met on the site with Mr. Jim Fox on April 15, 2010, to observe the surface conditions. On April 16, 2010, we explored the subsurface conditions in the development area to the extent of 3 test borings. The test borings were drilled with a portable power auger equipped with 4-inch diameter flight augers. The completed test holes were excavated to depths ranging to about 11 feet.

The test holes were located by our geologist by pacing or estimating distances from the features shown on the site plan. The approximate test hole locations are shown on Plate 1. Our geologist logged the conditions exposed and obtained bulk and relatively undisturbed samples at selected intervals for visual identification and laboratory testing. Bulk and relatively undisturbed samples were obtained with a 2.4-inch inside-diameter (or 1.4 inch sampler, as noted), split-spoon sampler driven with a 70-pound hammer. The stroke during driving was about 30 inches. The blows required to drive the sampler were recorded for correlation with other data. Logs of the borings showing the materials encountered, sample depths, and blow counts are presented on Plates 2 through 4. The materials are classified in accordance with the Unified Soil Classification System and Rock Classification Criteria, presented on Plates 5 and 6, respectively.

The logs show our interpretation of the subsurface conditions on the date and locations indicated, and it is not warranted that they are representative of the subsurface conditions at other locations and times. Also, the stratification lines on the logs represent the approximate boundaries between material types; the transition may be gradual. The test borings were not backfilled with compacted fill and may settle.

Representative samples of the soils encountered were laboratory tested to determine their moisture content, density, and strength. The test results are generally presented on the logs in the manner described in the Key to Test Data, Plate 5.

SITE CONDITIONS

The site is located adjacent existing Inverness Public Utility District water tanks northwest of the Perth Way and Trossach Way intersection. The approximate GPS coordinates are 38.097183°; 122.863561°. The site is situated about ½ mile southwest of Tomales Bay, on the crest of a knoll. The area generally supports a moderate to dense growth of trees and brush; several single family residences are located in the vicinity. A site plan indicating the planned tank location and current improvements is presented on Plate 1.

The geologic maps reviewed indicate that the site is underlain by granitic bedrock located east of the San Andreas Fault Zone. The San Andreas consists of a series of fault breaks, generally located within Tomales Bay (about ½ mile to the northeast). A short, about

1,600-foot, fault break attributed to the 1906 earthquake is located about ¼ mile to the northeast.

The results of our subsurface exploration, summarized on Plates 2 through 4, indicate that the site is underlain by deeply weathered granitic bedrock. The bedrock is typically of low hardness and friable. The bedrock was drilled with low to moderate drilling effort. As indicated on the test boring logs, the bedrock is typically overlain by residual soils consisting of medium dense clayey sand. Dark brown clayey sand surface soils typically blanket the site. These soils are loose to medium dense and contain small amounts of vegetation. At Test Borings 2 and 3, minor fill soils, ranging to about 1-1/2 feet deep overlie the surface soils. The variable fills typically consist of loose clayey sands. The fill and surface soils are 'weak'. The depth of the weak soils are indicated on the test boring logs.

Surface groundwater seepage or springs were not observed at the time of our exploration. Groundwater seepage was not encountered in our test borings. However, groundwater conditions are expected to vary with different locations and times.

The published geologic map by Wentworth et. al. does not indicate landsliding within the planned development area. We did not observe landsliding during our work.

The site is not within an Alquist-Priolo Earthquake Fault Zone, which could require a detailed investigation to evaluate the hazard of fault surface rupture. As previously noted, the nearest fault considered seismically active (experiencing surface rupture within about the last 11,000 years) is the San Andreas Fault Zone, located about ½ mile to the northeast (and a secondary fault break is about ¼ mile to the northeast).

As throughout the entire Northern California area, ground shaking from earthquakes represents a significant geologic hazard to developments. The intensity of ground shaking will be dependent on several factors such as distance from the site to the earthquake focus, magnitude of the earthquake and response of the underlying soil and rock. We did not observe adverse subsurface conditions prone to densification or liquefaction below the weak surface soils.

DISCUSSION AND CONCLUSIONS

Based upon the results of our work, we judge that the project is feasible from a geotechnical viewpoint. The significant geotechnical factors that must be considered in design and construction are discussed in the following sections.

A. Weak Surface Soils

Upon saturation, weak natural surface soils (and poorly compacted existing fills, where present) will lose strength and consolidate rapidly under loads of new fill and structural elements. Saturation will occur when the natural evaporation of soil moisture is inhibited by new fill and structural elements.

We conclude that the existing surface soils are unsuitable for support of fills, foundations, and concrete slabs in their present condition. The weak surface soils must be upgraded (in and adjacent to the tank) by removal or recompaction for their full depth.

Satisfactory foundation support for the proposed tank can be obtained from spread footings bottomed on firm bedrock, residual soil, or engineered fill below the weak surface soils.

In general, we anticipate that much of the soils encountered in our test borings and the highly weathered bedrock materials will be suitable as select fill (depending on laboratory testing of the actual materials). Highly expansive clays, if encountered, will not be suitable for use as 'select fill' within 30 inches of tank area subgrade. If moderately to highly expansive clays are encountered, we should be contacted to develop supplemental recommendations.

B. Settlement

Where the water tank will be underlain by both bedrock and compacted fill or residual soils, there will be a potential for differential settlement. The potential for differential settlement can be mitigated with several alternatives, such as: 1) extending all support through the soils and into the firm bedrock; 2) over excavating the bedrock to allow for a relatively uniform fill thickness across the tank site; or 3) compacting the fill to a higher degree of compaction. Typically, we have recommended compacting the fill to higher degree of compaction combined with localized overexcavation of the bedrock (10 feet wide

at the cut/fill contact and 2 feet deep) as the most suitable alternative. However, we should be contacted to provide further comments when the grading plans have been prepared.

For foundations designed and installed in accordance with our recommendations, we judge that total settlement for the tank will be less than about 1-inch. Depending on the extent of fill, differential settlement of up to 1/2-inch could occur between those portions of the tank that are founded on firm bedrock and compacted fill.

C. Excavations

Based on our subsurface exploration and construction experience with similar materials, we judge that excavations can be achieved using conventional heavy excavation equipment such as a Caterpillar D8L with single tooth rippers. However, subsurface conditions can vary and occasionally, areas of harder bedrock may be encountered. Typically, we do not anticipate that blasting will be required. We should be consulted to provide additional recommendations if blasting is determined necessary.

Groundwater was not encountered in our test holes. However, conditions will vary depending on the season and area of the site. We anticipate that there will be a low potential for encountering groundwater if grading performed in the summer or fall seasons.

When the excavated soil is recompacted as fill, the fill density is generally different than the original in-situ density. This results in swell or shrinkage of the excavated materials. Based on our past experience, we estimate that when the natural materials are excavated and

placed as fill, there will be an average swell of about 5 percent for the bedrock materials and an average shrink of about 15 percent for the natural surface soils.

D. Earthquake Ground Shaking

Historical records indicate a potential for strong earthquake shaking within the area. As previously discussed, the severity of future shaking will depend upon several factors. It will be necessary to design and construct the project in strict accordance with current standards for earthquake-resistant construction.

Our subsurface exploration program did not encounter deposits which are considered liquefiable below the weak surface soils. Therefore, we consider the risk of damage to the planned development from surface effects of liquefaction at the site to be negligible. Severe seismic shaking could induce landsliding on steep slopes. The risk of landsliding will depend on several variables including: material types, groundwater conditions, slope height and inclination, and shaking intensity. Considering that the site is at the top of a knoll, we judge that the risk of landsliding to be low.

RECOMMENDATIONS

A. Site Preparation and Grading

We understand that fills will be minimized. The following is presented for general grading, if necessary. We must review and approve any grading planned, since site grading may have a negative impact on site stability.

For the purpose of definition, "select fill areas" referred to in this report are tank and critical exterior concrete slab areas and the zones extending for a distance of at least five feet beyond outside edges of slabs and perimeter footings or other footings extending from structures. Within the select fill areas, existing weak surface and old fill soils should be removed for their full depth. If expansive soils are present, the expansive soils should be removed to provide space for at least 30 inches of non-expansive select fill.

Areas to be graded should be cleared of designated brush, rubble, debris and old fills. Material generated by the clearing operations should be removed from the site. Wells, cesspools, and other voids encountered or generated during clearing should be either backfilled with granular material or compacted soil, or capped with concrete as determined by us and in accordance with Marin County requirements. Areas to be graded should be stripped of the upper soils containing root growth and organic matter. The strippings should be removed from the site, stockpiled for reuse as topsoil, or mixed with at least two parts soil and may be used as fill in areas 10 feet beyond structures, walks and paved areas.

Areas to receive fill, should be prepared by cutting level keyways extending into the firm residual soil or bedrock. If isolated zones of extremely weak soils or bedrock are encountered during excavation and recompaction, they should be removed to expose firm soil or bedrock. The depth and extent of excavations (including keyways and benches) and over-excavation should be approved in the field by us.

Subsurface drainage facilities should be installed where evidence of seepage is observed and as recommended by us. Subdrains should be constructed as explained in the Geotechnical Engineering Drainage Section.

Within the stripping, excavation, and keyway areas, the exposed bottoms should be moisture conditioned to 2 percent above optimum moisture content, scarified (where possible) and compacted to at least 90 percent relative compaction. Relative compaction refers to the in-place dry density of the soil expressed as a percentage of the maximum dry density of the same soil, as determined by ASTM D 1557-02e1. Optimum moisture content is the water content (percentage by dry weight) corresponding to the maximum dry density.

The on-site soils should be suitable for reuse as general fill provided that: 1) all rock sizes greater than 6 inches in largest dimension and perishable materials are removed; and 2) the fill materials are approved by us prior to use. Imported fill, if required, should be free of organic matter, non-expansive and should generally conform to the following requirements:

<u>Sieve Size</u>	<u>Percent Passing</u>	
6-inch	100	Liquid limit – 40 Maximum
4-inch	90-100	Plasticity Index – 15 Maximum
No. 200	15-60	ASTM D 4318-84 Wet Test Method

Fill should be placed in thin lifts (normally 6 to 8 inches depending on compaction equipment), uniformly moisture conditioned to at least 2 percent above optimum moisture content (4 percent for expansive soils), and compacted to at least 90 percent relative compaction. All surfaces should be finished to present a smooth, unyielding subgrade.

Typically, fill and cut slopes should be constructed no steeper than 2:1 and slopes steeper than 2:1 must be retained. However, we understand that 1:1 cutslopes ranging to about 1 foot high will be required to properly site the planned tank. Considering these low cuts, we judge that these cuts will be suitable with the understanding that on-going maintenance of these slopes will be required. Fill and cut slopes should be planted with erosion-resistant vegetation, or protected from erosion by other measures upon completion of grading. Ground cover should be maintained on the slopes.

B. Foundations

Foundation support for the tank and retaining walls can be obtained from spread footings bottomed on firm bedrock, residual soils, or properly compacted fill. Generally, spread footings should be designed using an allowable soil bearing pressure of 2500 pounds per square foot (psf) for dead plus code live loads and 3500 psf for total design loads, including wind or seismic forces.

Wall and column footings should be at least 12 and 18 inches wide, respectively, regardless of load, and should be bottomed at least 18 inches below the lowest adjacent compacted fill or natural soil subgrade. Further, if expansive soil/rock is encountered, we should be contacted to develop supplemental recommendations.

Resistance to lateral loads in bedrock or compacted fill can be calculated using a passive pressure of 350 pounds per cubic foot (pcf) equivalent fluid pressure (triangular distribution) and a base friction of 0.35 times net vertical dead load. Passive pressures should be neglected in the upper 1 foot where footings are not confined by concrete slabs-on-grade or asphalt pavement structural sections. We should observe the footing excavations prior to the placement of reinforcing steel and concrete.

C. Seismic Design Criteria

The following criteria is based on 2007 CBC guidelines and USGS Earthquake Ground

Motion Parameters:

Spectral Response Acceleration, S_0 (0.2 sec.) – 2.162g

Spectral Response Acceleration, S_1 (1.0 sec.) – 1.213g

Seismic Design Category – D

Title 24, Part 2, Section 1613.5.2, of the 2007 CBC indicates that site categorization for seismic design should be based on the average soil values within the upper 100 feet of the

site. Although the scope of our investigation was limited to relatively shallow test holes (ranging to about 11 feet deep), we estimate that a Site Classification "C" will be appropriate for design. Upon request, we could perform supplemental exploration to determine the actual subsurface conditions ranging to 100 feet.

D. Retaining Walls

Foundation support for retaining walls can be obtained from spread footings in accordance with the previous section recommendations.

Retaining walls free to rotate (yield more than 0.1 percent of the wall height at the top of the backfill) and with level backfill should be designed to resist an active lateral earth pressure (triangular distribution) of 40 pcf. Where the backfill slopes up steeper than 3:1, the pressures indicated above should be increased to 50 pcf. Rigid walls which can not yield should be designed for an "at-rest" lateral earth pressure of 60 pcf. We should be contacted if a lateral force for seismic conditions is needed.

These pressures do not consider additional loads resulting from adjacent foundations, traffic loads, or other downward loads. If additional surcharge loadings are anticipated, we can assist in evaluating their effects. Similarly, if stepped retaining walls are planned, we should be contacted to provide specific lateral surcharge pressures for the lower walls based on the final wall configuration.

Retaining walls should be provided with permanent backdrains to prevent the build-up of hydrostatic pressure. The drains and backfill should be constructed as shown on Plate 7.

Where migration of moisture through retaining walls would be detrimental, retaining walls should be waterproofed. Fill materials should be compacted in a manner to prevent over-stressing the wall structures. Further, wall bracing should be considered. Retaining walls will yield slightly during backfilling. Therefore, retaining walls should be backfilled prior to building on or adjacent the walls. On-site soils may generally be used as backfill, however the soils must be compacted in accordance with our previous recommendations. The use of imported granular material will generally require less backfilling effort. We should be contacted to observe the backfill of retaining walls.

We typically recommend that foundations not be located within retaining wall backfills to avoid the potential for differential settlement. Mitigation may include designing foundations to span from retaining walls to beyond the backfill area. We should be contacted to provide supplemental consultation if foundations will extend across retaining wall backfills.

E. Concrete Slab-On-Grade

During foundation installation and utility trench excavation and backfilling, previously compacted subgrade soils may become disturbed. Where this is the case, these soils should be uniformly moisture conditioned to near optimum moisture content and rerolled to provide a smooth, unyielding surface compacted to at least 90 percent relative compaction. Exterior non-critical concrete slabs can be placed directly on a properly

prepared subgrade soil provided that: 1) the slabs are separated from foundations; 2) slabs are designed to minimize cracking (i.e. reinforced and provided with control joints); and 3) some soil related cracking and differential movements are acceptable.

Subgrade should be maintained at a uniform moisture, at least two percent above optimum moisture content (4 percent for expansive soils), until the concrete slabs are placed. Slabs should be underlain with a capillary moisture break and cushion layer consisting of at least four inches of clean, free-draining crushed rock. The crushed rock should be at least 1/4-inch, and no larger than 3/4-inch, in size.

Moisture will condense on the underside of slabs. Where moisture migration through slabs is detrimental, waterproofing mitigation methods should be designed by others for incorporation into the project plans. Slabs should be at least 4 inches thick and reinforced to reduce cracking.

Some cracking of slabs must be anticipated considering concrete shrinkage. Reinforcing must be carefully installed in accordance with the structural engineer's recommendations to minimize the potential of cracking. We typically recommend the use rebar reinforcement, placed on blocks at the center of the slab. We have commonly observed that welded wire mesh is not properly located in the slabs. Control and expansion joints should be provided, as appropriate, to mitigate the effects of differential settlement.

F. Geotechnical Engineering Drainage

Ponding water will be detrimental to foundations, therefore the site should be graded to provide positive drainage away from foundations and finished cut and fill slopes.

Retaining wall backdrains should be at least 12 inches wide, for the full height of walls. Backdrains, as shown on Plate 7, should consist of 4 inch diameter, perforated pipe, installed perforations down, placed at the bottom of the drain and sloped to drain to outlets by gravity. The pipe should conform to the requirements presented in the suggested geotechnical specifications. The pipe should be overlain with clean, free-draining, 3/4 or 1-1/2 inch, crushed drain rock separated from adjacent soil/rock by a non-woven filter fabric. As alternatives to standard drain rock and fabric, Class II permeable material complying with Section 68, "Caltrans" may be used without fabric or a prefabricated synthetic drainage structure such as Miradrain 6000 (or equivalent) may be used. The upper 6 inches of the drain should be backfilled with compacted soil to exclude surface water. We should be contacted to observe the installation of subdrains. If groundwater seepage is encountered during grading, additional subdrains should be installed according to us.

G. Supplemental Services

We should review the final plans for conformance with the intent of our recommendations. During grading and foundation construction, we should provide intermittent geotechnical engineering observations, along with necessary field and laboratory testing, during: 1) removal of weak soil and old fills; 2) fill placement and compaction; 3).

subdrainage placement; 4) preparation and compaction of subgrade; 5) placement and compaction of Class II Aggregate Base and 6) excavation of foundations. These observations and tests would allow us to check that the contractor's work conforms with the intent of our recommendations and the project plans and specifications. These observations also permit us to check that conditions encountered are as anticipated, and modify our recommendations, as necessary.

These supplemental services are performed on an as-requested basis, and we can accept absolutely no responsibility for items that we are not notified to observe. These supplemental services are in addition to this investigation, and are charged for on an hourly basis in accordance with our Schedule of Charges. We must be provided with at least 48 hours notice for scheduling our initial site visit, and 24 hours thereafter.

MAINTENANCE

Periodic land maintenance will be required. Drains should be checked frequently, and cleaned and maintained as necessary. Sloughing or erosion that occurs should be repaired before it can enlarge. A dense growth of deep-rooted ground cover should be maintained on all exposed slopes.

LIMITATIONS

We performed the investigation and prepared this report in accordance with generally accepted standards of the geotechnical engineering profession. No other warranty, either express or implied, is given.

If the project is revised, or if conditions different from those described in this report are encountered during construction, we should be notified immediately so that we can take timely action to modify our recommendations, if warranted.

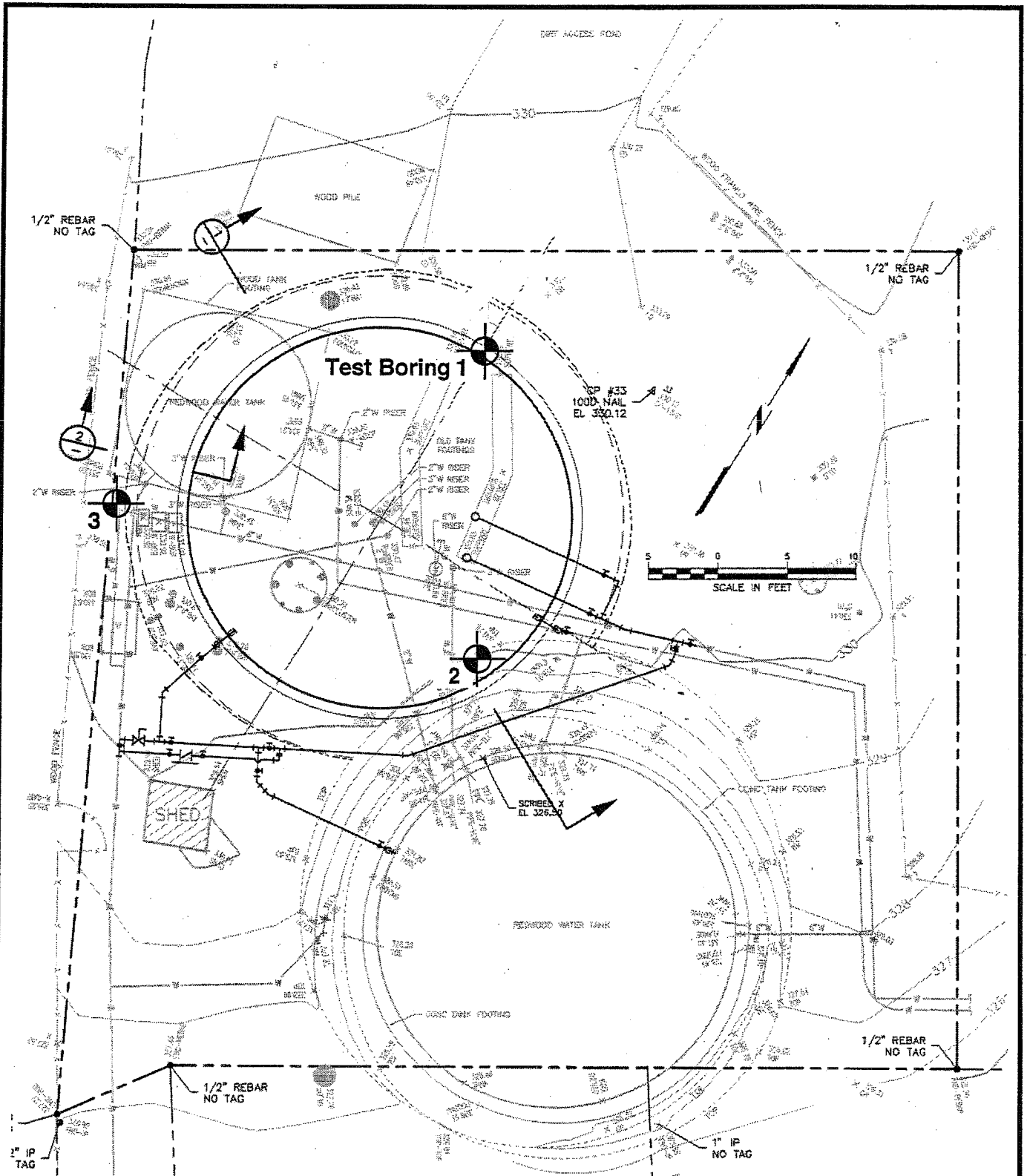
Site conditions and standards of practice change. Therefore, we should be notified to update this report if construction is not performed within 24 months of the submittal date.

BAUER ASSOCIATES

Job No. 2719.0

Page 20

ILLUSTRATIONS



Reference: Adapted from Sheet 4 of 10, Site Grading Plan & Sections; prepared by Brelje & Race, dated April 2010.

BAUER ASSOCIATES GEOTECHNICAL CONSULTANTS	Job No: 2719.0 Date: 4/10 By: CLK	SITE PLAN TENNY TANK SITE Inverness, California	PLATE 1

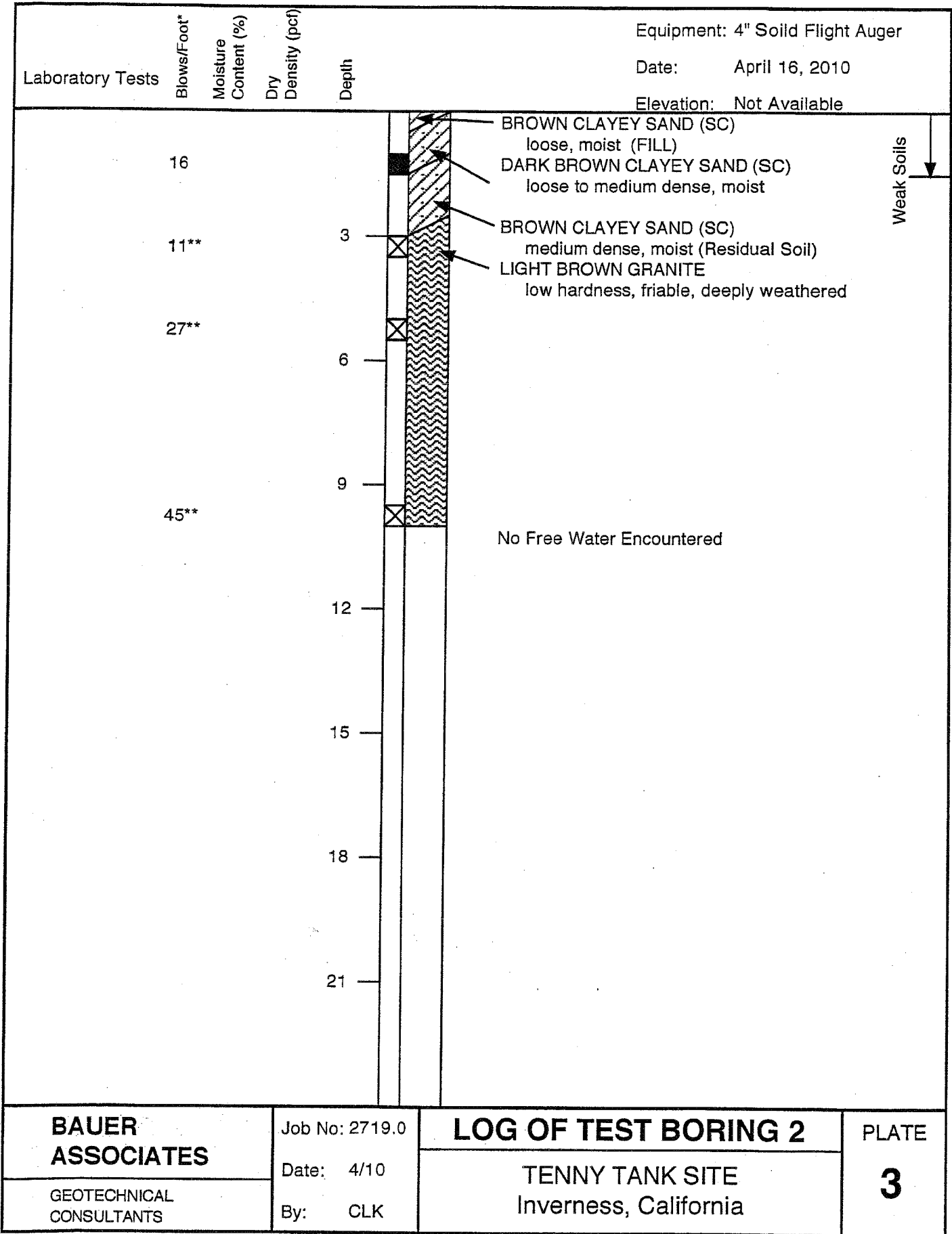
Equipment: 4" Soild Flight Auger
 Date: April 16, 2010
 Elevation: Not Available

Laboratory Tests	Blows/Foot*	Moisture Content (%)	Dry Density (pcf)	Depth	
	11	10.1	106	3	DARK BROWN CLAYEY SAND (SC) loose to medium dense, moist
	39			6	BROWN CLAYEY SAND (SC) medium dense, moist (Residual Soil)
	42**			9	LIGHT BROWN GRANITE low hardness, friable, deeply weathered
				12	No Free Water Encountered
				15	
				18	
				21	

Weak Soils

* Blows not converted to Standard Penetration Resistance Values
 ** Sampled with 1.5" diameter sampler

BAUER ASSOCIATES	Job No: 2719.0	LOG OF TEST BORING 1	PLATE
	Date: 4/10		2
GEOTECHNICAL CONSULTANTS	By: CLK	TENNY TANK SITE Inverness, California	



BAUER ASSOCIATES

GEOTECHNICAL CONSULTANTS

Job No: 2719.0

Date: 4/10

By: CLK

LOG OF TEST BORING 2

TENNY TANK SITE
Inverness, California

PLATE

3

Equipment: 4" Soild Flight Auger
 Date: April 16, 2010
 Elevation: Not Available

Laboratory Tests	Blows/Foot*	Moisture Content (%)	Dry Density (pcf)	Depth	
TX 650(576)	7	11.8	103	3	BROWN CLAY SAND (SC) loose, moist (FILL) DARK BROWN CLAYEY SAND (SC) loose to medium dense, moist Weak Soils
	36	15.6	105	6	BROWN CLAYEY SAND (SC) medium dense, moist (Residual Soil) LIGHT BROWN GRANITE low hardness, friable, deeply weathered
	59**			12	No Free Water Encountered
				15	
				18	
				21	

BAUER ASSOCIATES	Job No: 2719.0	LOG OF TEST BORING 3	PLATE
	Date: 4/10		
GEOTECHNICAL CONSULTANTS	By: CLK	TENNY TANK SITE Inverness, California	4

MAJOR DIVISIONS				TYPICAL NAMES	
COARSE GRAINED SOILS MORE THAN HALF IS LARGER THAN #200 SIEVE	GRAVELS more than half coarse fraction is larger than no. 4 sieve size	CLEAN GRAVELS WITH LITTLE OR NO FINES	GW		WELL GRADED GRAVELS, GRAVEL-SAND MIXTURES
			GP		POORLY GRADED GRAVELS, GRAVEL-SAND MIXTURES
		GRAVELS WITH OVER 12% FINES	GM		SILTY GRAVELS, POORLY GRADED GRAVEL-SAND MIXTURES
			GC		CLAYEY GRAVELS, POORLY GRADED GRAVEL-SAND MIXTURES
	SANDS more than half coarse fraction is smaller than no. 4 sieve size	CLEAN SAND WITH LITTLE OR NO FINES	SW		WELL GRADED SANDS, GRAVELLY SANDS
			SP		POORLY GRADED SANDS, GRAVEL-SAND MIXTURES
		SANDS WITH OVER 12% FINES	SM		SILTY SANDS, POORLY GRADED SAND-SILT MIXTURES
			SC		CLAYEY SANDS, POORLY GRADED SAND-CLAY MIXTURES
FINE GRAINED SOILS MORE THAN HALF IS SMALLER THAN #200 SIEVE	SILTS AND CLAYS LIQUID LIMIT LESS THAN 50	ML		INORGANIC SILTS, SILTY OR CLAYEY FINE SANDS, VERY FINE SANDS, ROCK FLOUR, CLAYEY SILTS WITH SLIGHT PLASTICITY	
		CL		INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS OR LEAN CLAYS	
		OL		ORGANIC CLAYS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY	
	SILTS AND CLAYS LIQUID LIMIT GREATER THAN 50	MH		INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SANDY OR SILTY SOILS, ELASTIC SILTS	
		CH		INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS	
		OH		ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS	
HIGHLY ORGANIC SOILS		Pt		PEAT AND OTHER HIGHLY ORGANIC SOILS	

KEY TO TEST DATA		Shear Strength, psf	Confining Pressure, psf	
LL - Liquid Limit (in %)				
PL - Plastic Limit (in %)				
G - Specific Gravity				
SA - Sieve Analysis				
Consol - Consolidation				
- "Undisturbed" Sample				
- Bulk or Disturbed Sample				
- No Sample Recovery				
*Tx	320 (2600)	Unconsolidated Undrained Triaxial		
Tx CU	320 (2600)	Consolidated Undrained Triaxial		
DS	2750 (2000)	Consolidated Drained Direct Shear		
FVS	470	Field Vane Shear		
*UC	2000	Unconfined Compression		
LVS	700	Laboratory Vane Shear		
Notes: (1) All strength tests on 2.8" or 2.4" diameter sample unless otherwise indicated. (2) * Indicates 1.4" diameter sample.				

BAUER ASSOCIATES	Job No: 2719.0	SOIL CLASSIFICATION CHART & KEY TO TEST DATA	PLATE
	Date: 4/10		
GEOTECHNICAL CONSULTANTS	By: CLK	TENNY TANK SITE Inverness, California	5

I. CONSOLIDATION OF SEDIMENTARY ROCKS; usually determined from unweathered samples.
Largely dependent on cementation.

- U = Unconsolidated
- P = Poorly consolidated
- M = Moderately consolidated
- W = Well consolidated

II. BEDDING OF SEDIMENTARY ROCKS

Splitting Property	Thickness	Stratification
Massive	Greater than 4.0 ft.	very thick bedded
Blocky	2.0 to 4.0 ft.	thick-bedded
Slabby	0.2 to 2.0 ft.	thin-bedded
Flaggy	0.05 to 0.2 ft.	very thin-bedded
Shaly or platy	0.01 to 0.05 ft.	laminated
Papery	less than 0.01 ft.	thinly laminated

III. FRACTURING

Intensity	Size of Pieces in Feet
1. Crushed	Less than 0.05
2. Intensely fractured	0.05 to 0.1
3. Closely fractured	0.1 to 0.5
4. Moderately fractured	0.5 to 1.0
5. Occasionally fractured	1.0 to 4.0
6. Very little fractured	Greater than 4.0

IV. HARDNESS

1. **Soft** - Reserved for plastic material alone
2. **Low Hardness** -Can be gouged deeply or carved easily with a knife blade
3. **Moderately hard** -Can be readily scratched by a knife blade; scratch leaves a heavy trace of dust and is readily visible after the powder has been blown away.
4. **Hard** -Can be scratched with difficulty ; scratch produces little powder and is often faintly visible.
5. **Very hard** -Cannot be scratched with knife blade; leaves a metallic streak.

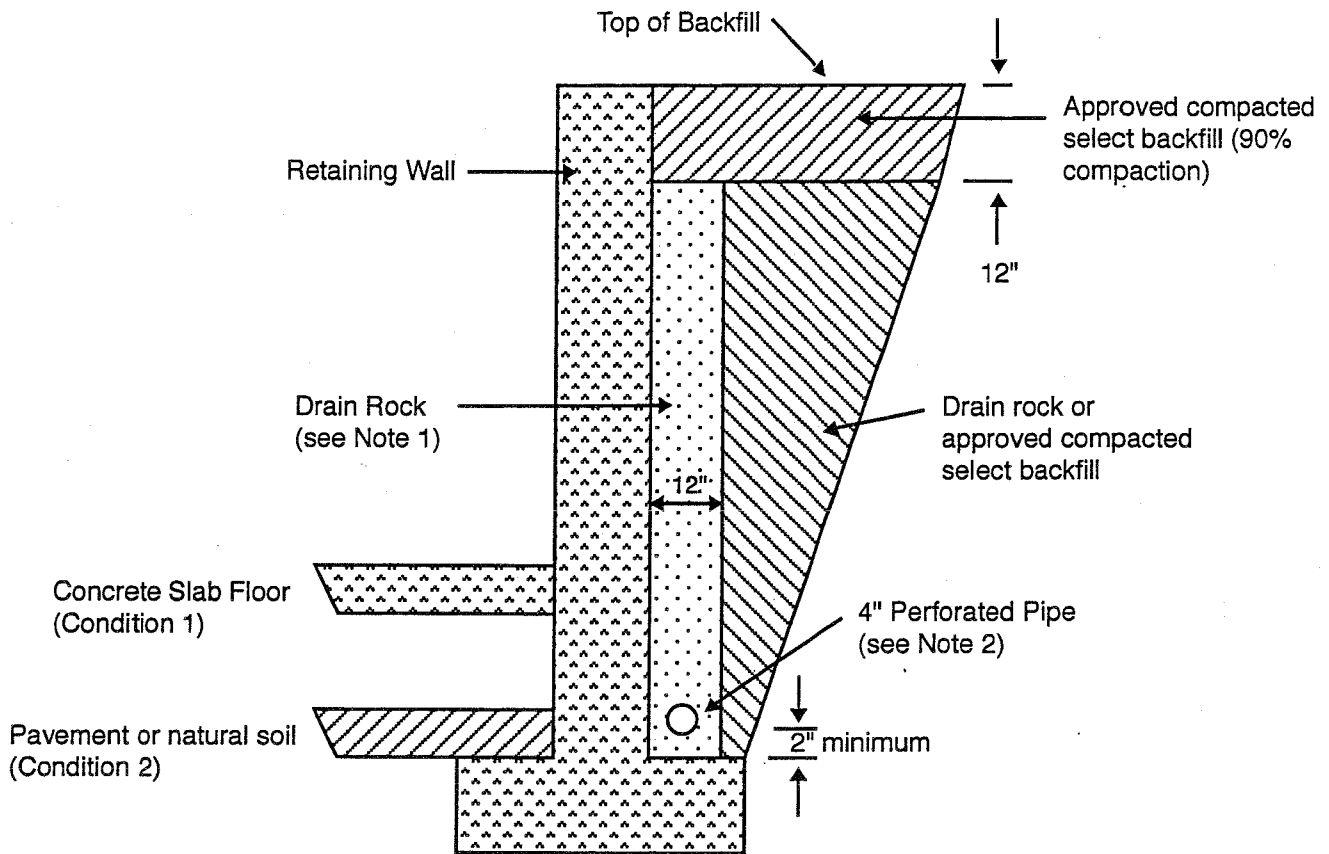
V. STRENGTH

1. **Plastic** - Capable of being molded by hand
2. **Friable** - Crumbles easily by rubbing with fingers
3. **Weak** - An unfractured specimen of such material will crumble under light hammer blows.
4. **Moderately strong** - Specimen will withstand a few heavy hammer blows before breaking.
5. **Strong** - Specimen will withstand a few heavy ringing hammer blows and will yield with difficulty only dust and small flying fragments.
6. **Very strong** - Specimen will resist heavy ringing hammer blows and will yield with difficulty only dust and small flying fragments.

VI. WEATHERING - The physical and chemical disintegration and decomposition of rocks and minerals by natural processes such as oxidation, reduction, hydration, solution, carbonation, and freezing and thawing.

- D. Deep** - Moderate to complete mineral decomposition, extensive disintegration, deep and thorough discoloration; fractures all extensively coated or filled with oxides, carbonates and/or clay or silt.
- M. Moderate** - Slight change or partial decomposition of minerals, little disintegration, cementation little to unaffected. Moderate to occasionally intense discoloration. Moderately coated fractures.
- L. Little** - No megascopic decomposition of minerals; little or no effect on normal cementation. Slight and intermittent, or localized discoloration. Few stains on fracture surfaces.
- F. Fresh** - Unaffected by weathering agents. No disintegration or discoloration.

BAUER ASSOCIATES	Job No: 2719.0	ROCK CLASSIFICATION CRITERIA	PLATE 6
	Date: 4/10	TENNY TANK SITE Inverness, California	
GEOTECHNICAL CONSULTANTS	By: CLK		



WALL DRAINAGE DETAIL

(Not to scale)

NOTES:

- (1) Drain rock should be either: 1) clean, free-draining and meet the requirements for Class II Permeable Material, Section 68, State of California "Caltrans" Standard Specifications, latest edition; or 2) 3/4 or 1-1/2 inch crushed drain rock separated from the adjacent soil/rock by non-woven filter fabric.
- (2) Pipe should consist of PVC Schedule 40 or ABS with a SDR of 35 or better, perforations placed down. Pipes for subsurface walls should be sloped at 1% minimum to drain to gravity outlet or sump with automatic pump.

Perforated pipe should be a minimum of 8" below concrete slab-on-grade floors.

- (3) Prefabricated synthetic drainage structure such as Miradrain 6000 or equivalent may be used in lieu of drainrock along the back of the retaining wall.

BAUER ASSOCIATES	Job No: 2719.0	WALL DRAINAGE DETAIL	PLATE 7
	Date: 4/10	TENNY TANK SITE Inverness, California	
GEOTECHNICAL CONSULTANTS	By: CLK		

LIST OF REFERENCES

California Division of Mines and Geology, 1974, State of California Earthquake Fault Zones, Inverness Quadrangle, Scale 1:24,000.

Hart, E.W., and Bryant, W.A., 2007, Fault-Rupture Hazard Zones in California: California Geological Survey, Special Publication 42, 41pp.

Harding Lawson Associates, March 8, 1985, Soil Investigation, Steel Water Tank, Inverness, California, HLA Job No. 11,546,004.01.

Wagner, D.L., 1977, Geology for Planning in Western Marin County, California: California Division of Mines and Geology, Scale 1:12,000.

Wagner, D.L., and Bortugno, E.J., 1982, Geologic Map of the Santa Rosa Quadrangle: California Division of Mines and Geology, Scale 1:250,000.

Wentworth, C. M., and Frizzell, V. A., 1975, Reconnaissance Landslide Map of Parts of Marin and Sonoma Counties, California: U.S. Geological Survey, Open File Report 75-281, Scale 1:24,000.

DISTRIBUTION

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3

Mr. Jack Locey
Brelje & Race
5570 Skylane Blvd.
Santa Rosa, California 95403

3

CLK/BB (gi/inverness tank)

Attachment A

"General Decision Number: CA20210007 01/22/2021

Superseded General Decision Number: CA20200007

State: California

Construction Types: Building, Heavy (Heavy and Dredging) and Highway

Counties: Alpine, Amador, Butte, Colusa, El Dorado, Glenn, Lassen, Marin, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, Shasta, Sierra, Siskiyou, Solano, Sonoma, Sutter, Tehama, Trinity, Yolo and Yuba Counties in California.

BUILDING CONSTRUCTION PROJECTS (excluding Amador County only); DREDGING CONSTRUCTION PROJECTS (does not include hopper dredge work); HEAVY CONSTRUCTION PROJECTS (does not include water well drilling); AND HIGHWAY CONSTRUCTION PROJECTS

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.95 for calendar year 2021 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, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.95 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 calendar year 2021. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification Number	Publication Date
0	01/01/2021
1	01/08/2021
2	01/15/2021
3	01/22/2021

ASBE0016-001 01/01/2020

AREA 1: MARIN, NAPA, SAN BENITO, SAN FRANCISCO, SOLANO, & SONOMA COUNTIES

AREA 2: ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO, GLENN, MODOC, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SISKIYOU, SUTTER, TEHEMA, TRINITY, YOLO, & YUBA COUNTIES

Rates Fringes

Asbestos Workers/Insulator
(Includes the application of
all insulating materials,
Protective Coverings,
Coatings, and Finishes to all
types of mechanical systems)

Area 1.....	\$ 71.16	23.39
Area 2.....	\$ 54.26	23.39

ASBE0016-007 01/01/2019

AREA 1 : ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO, GLENN,
LASSEN, MODOC, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA,
SIERRA, SISKIYOU, SOLANO, SONOMA, SUTTER, TEHAMA, TRINITY, YOLO
& YUBA COUNTIES

AREA 2: MARIN & NAPA COUNTIES

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)

AREA 1.....	\$ 30.81	22.71
AREA 2.....	\$ 36.53	9.27

BOIL0549-002 10/01/2016

Rates Fringes

BOILERMAKER

(1) Marin & Solano Counties..	\$ 43.28	37.91
(2) Remaining Counties.....	\$ 39.68	35.71

BRCA0003-001 08/01/2020

Rates Fringes

MARBLE FINISHER.....	\$ 36.53	17.08
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BRCA0003-004 05/01/2019

AREA 1: ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO, GLENN,
LASSEN, MODOC, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA,
SIERRA, SUTTER, TEHAMA, YOLO AND YUBA COUNTIES

AREA 2: MARIN, NAPA, SISKIYOU, SOLANO, SONOMA AND TRINITY
COUNTIES

Rates Fringes

BRICKLAYER

AREA 1.....	\$ 43.24	21.63
AREA 2.....	\$ 45.92	26.70

SPECIALTY PAY:

(A) Underground work such as tunnel work, sewer work, manholes, catch basins, sewer pipes and telephone conduit shall be paid \$1.25 per hour above the regular rate. Work in direct contact with raw sewage shall receive \$1.25 per hour in addition to the above.

(B) Operating a saw or grinder shall receive \$1.25 per hour above the regular rate.

(C) Guniting nozzle person shall receive \$1.25 per hour above the regular rate.

BRCA0003-008 07/01/2019

	Rates	Fringes
TERRAZZO FINISHER.....	\$ 37.58	17.33
TERRAZZO WORKER/SETTER.....	\$ 48.53	26.84

BRCA0003-010 04/01/2019

	Rates	Fringes
TILE FINISHER		
Area 1.....	\$ 27.31	14.75
Area 2.....	\$ 27.10	16.50
Area 3.....	\$ 29.94	16.38
Area 4.....	\$ 28.06	15.82
Tile Layer		
Area 1.....	\$ 45.51	17.64
Area 2.....	\$ 45.15	19.06
Area 3.....	\$ 49.90	19.16
Area 4.....	\$ 46.77	19.08

AREA 1: Butte, Colusa, El Dorado, Glenn, Lassen, Modoc, Nevada, Placer, Plumas, Sacramento, Shasta, Sierra, Sutter, Tehama, Yolo, Yuba

AREA 2: Alpine, Amador

AREA 3: Marin, Napa, Solano, Siskiyou

AREA 4: Sonoma

BRCA0003-014 08/01/2020

	Rates	Fringes
MARBLE MASON.....	\$ 51.30	28.47

CARP0034-001 07/01/2020

	Rates	Fringes
Diver		
Assistant Tender, ROV		
Tender/Technician.....	\$ 51.90	34.02
Diver standby.....	\$ 58.09	34.02
Diver Tender.....	\$ 57.09	34.02
Diver wet.....	\$ 101.42	34.02
Manifold Operator (mixed		
gas).....	\$ 62.09	34.02
Manifold Operator (Standby).\$	57.09	34.02

DEPTH PAY (Surface Diving):

050 to 100 ft \$2.00 per foot

101 to 150 ft \$3.00 per foot

151 to 220 ft \$4.00 per foot
 221 ft.-deeper \$5.00 per foot

SATURATION DIVING:

The standby rate shall apply until saturation starts. The saturation diving rate applies when divers are under pressure continuously until work task and decompression are complete. The diver rate shall be paid for all saturation hours.

DIVING IN ENCLOSURES:

Where it is necessary for Divers to enter pipes or tunnels, or other enclosures where there is no vertical ascent, the following premium shall be paid: Distance traveled from entrance 26 feet to 300 feet: \$1.00 per foot. When it is necessary for a diver to enter any pipe, tunnel or other enclosure less than 48" in height, the premium will be \$1.00 per foot.

WORK IN COMBINATION OF CLASSIFICATIONS:

Employees working in any combination of classifications within the diving crew (except dive supervisor) in a shift are paid in the classification with the highest rate for that shift.

 CARP0034-003 07/01/2020

	Rates	Fringes
Piledriver.....	\$ 51.90	34.02

 CARP0035-001 08/01/2020

AREA 1: MARIN, NAPA, SOLANO & SONOMA

AREA 3: SACRAMENTO, WESTERN EL DORADO (Territory west of an including highway 49 and the territory inside the city limits of Placerville), WESTERN PLACER (Territory west of and including highway 49), & YOLO

AREA 4: ALPINE, BUTTE, COLUSA, EASTERN EL DORADO, GLENN, LASSEN, MODOC, NEVADA, EASTERN PLACER, PLUMAS, SHASTA, SIERRA, SISKIYOU, SUTTER, TEHAMA, TRINITY, & YUBA

	Rates	Fringes
Drywall Installers/Lathers:		
Area 1.....	\$ 50.50	30.64
Area 3.....	\$ 47.27	31.26
Area 4.....	\$ 45.92	31.26
Drywall Stocker/Scrapper		
Area 1.....	\$ 25.25	17.86
Area 3.....	\$ 23.64	18.22
Area 4.....	\$ 22.97	18.22

 CARP0035-009 07/01/2020

Marin County

	Rates	Fringes
CARPENTER		
Bridge Builder/Highway		

Carpenter.....	\$ 52.65	30.82
Hardwood Floorlayer, Shingler, Power Saw Operator, Steel Scaffold & Steel Shoring Erector, Saw Filer.....	\$ 52.80	30.82
Journeyman Carpenter.....	\$ 52.65	30.82
Millwright.....	\$ 52.75	32.41

 CARP0035-010 07/01/2017

AREA 1: Marin, Napa, Solano & Sonoma Counties

AREA 2: Monterey, San Benito and Santa Cruz

AREA 3: Alpine, Butte, Colusa, El Dorado, Glenn, Lassen, Modoc,
 Nevada, Placer, Plumas, Sacramento, Shasta, Sierra, Siskiyou,
 Sutter, Tehama, Trinity, Yolo & Yuba counties

	Rates	Fringes
Modular Furniture Installer		
Area 1		
Installer I.....	\$ 24.91	19.63
Installer II.....	\$ 22.18	20.42
Lead Installer.....	\$ 29.06	20.92
Master Installer.....	\$ 33.28	20.92
Area 2		
Installer I.....	\$ 22.96	20.42
Installer II.....	\$ 20.01	20.42
Lead Installer.....	\$ 25.93	20.92
Master Installer.....	\$ 29.56	20.92
Area 3		
Installer I.....	\$ 22.01	20.42
Installer II.....	\$ 19.24	20.42
Lead Installer.....	\$ 24.81	20.92
Master Installer.....	\$ 31.83	20.92

 CARP0046-001 07/01/2020

El Dorado (West), Placer (West), Sacramento and Yolo Counties

	Rates	Fringes
Carpenters		
Bridge Builder/Highway Carpenter.....	\$ 52.65	30.82
Hardwood Floorlayer, Shingler, Power Saw Operator, Steel Scaffold & Steel Shoring Erector, Saw Filer.....	\$ 46.92	30.82
Journeyman Carpenter.....	\$ 46.77	30.82
Millwright.....	\$ 49.27	32.41

Footnote: Placer County (West) includes territory West of and including Highway 49 and El Dorado County (West) includes territory West of and including Highway 49 and territory inside the city limits of Placerville.

 CARP0046-002 07/01/2020

Alpine, Colusa, El Dorado (East), Nevada, Placer (East),

Sierra, Sutter and Yuba Counties

	Rates	Fringes
Carpenters		
Bridge Builder/Highway Carpenter.....	\$ 52.65	30.82
Hardwood Floorlayer, Shingler, Power Saw Operator, Steel Scaffold & Steel Shoring Erector, Saw Filer.....	\$ 45.57	30.82
Journeyman Carpenter.....	\$ 45.42	30.82
Millwright.....	\$ 47.92	32.41

 CARP0152-003 07/01/2020

Amador County

	Rates	Fringes
Carpenters		
Bridge Builder/Highway Carpenter.....	\$ 52.65	30.82
Hardwood Floorlayer, Shingler, Power Saw Operator, Steel Scaffold & Steel Shoring Erector, Saw Filer.....	\$ 45.57	30.82
Journeyman Carpenter.....	\$ 45.42	30.82
Millwright.....	\$ 47.92	32.41

 CARP0180-001 07/01/2020

Solano County

	Rates	Fringes
Carpenters		
Bridge Builder/Highway Carpenter.....	\$ 52.65	30.82
Hardwood Floorlayer, Shingler, Power Saw Operator, Steel Scaffold & Steel Shoring Erector, Saw Filer.....	\$ 52.80	30.82
Journeyman Carpenter.....	\$ 52.65	30.82
Millwright.....	\$ 52.75	32.41

 CARP0751-001 07/01/2020

Napa and Sonoma Counties

	Rates	Fringes
Carpenters		
Bridge Builder/Highway Carpenter.....	\$ 52.65	30.82
Hardwood Floorlayer, Shingler, Power Saw Operator, Steel Scaffold & Steel Shoring Erector, Saw Filer.....	\$ 52.80	30.82
Journeyman Carpenter.....	\$ 52.65	30.82

Millwright.....\$ 52.75 32.41

CARP1599-001 07/01/2020

Butte, Glenn, Lassen, Modoc, Plumas, Shasta, Siskiyou, Tehama
and Trinity Counties

Rates Fringes

Carpenters

Bridge Builder/Highway
Carpenter.....\$ 52.65 30.82
Hardwood Floorlayer,
Shingler, Power Saw
Operator, Steel Scaffold &
Steel Shoring Erector, Saw
Filer.....\$ 45.57 30.82
Journeyman Carpenter.....\$ 45.42 30.82
Millwright.....\$ 47.92 32.41

ELEC0180-001 06/01/2020

NAPA AND SOLANO COUNTIES

Rates Fringes

CABLE SPLICER.....\$ 58.51 24.74
ELECTRICIAN.....\$ 52.01 24.54

* ELEC0180-003 12/01/2020

NAPA AND SOLANO COUNTIES

Rates Fringes

Sound & Communications
Installer.....\$ 42.11 22.41
Technician.....\$ 48.43 22.60

SCOPE OF WORK INCLUDES-

SOUND & VOICE TRANSMISSION (Music, Intercom, Nurse Call,
Telephone); FIRE ALARM SYSTEMS [excluding fire alarm work
when installed in raceways (including wire and cable
pulling) and when performed on new or major remodel
building projects or jobs],
TELEVISION & VIDEO SYSTEMS, SECURITY SYSTEMS, COMMUNICATIONS
SYSTEMS that transmit or receive information and/or control
systems that are intrinsic to the above.

EXCLUDES-

Excludes all other data systems or multiple systems which
include control function or power supply; excludes
installation of raceway systems, line voltage work,
industrial work, life-safety systems (all buildings having
floors located more than 75' above the lowest floor level
having building access); excludes energy management
systems.

ELEC0340-002 02/01/2018

ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN,
NEVADA, PLACER, PLUMAS, SACRAMENTO, TRINITY, YOLO, YUBA COUNTIES

	Rates	Fringes
Communications System		
Sound & Communications		
Installer.....	\$ 29.35	3%+15.35
Sound & Communications		
Technician.....	\$ 33.75	3%+15.35

SCOPE OF WORK

Includes the installation testing, service and maintenance, of the following systems which utilize the transmission and/or transference of voice, sound, vision and digital for commercial, education, security and entertainment purposes for the following 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. SOUND AND VOICE TRANSMISSION/TRANSFERENCE SYSTEMS

Background foreground music Intercom and telephone interconnect systems, Telephone systems, Nurse call systems, Radio page systems, School intercom and sound systems, Burglar alarm systems, Low voltage master clock systems, Multi-media/multiplex systems, Sound and musical entertainment systems, RF systems, Antennas and Wave Guide.

B. FIRE ALARM SYSTEMS

Installation, wire pulling and testing

C. TELEVISION AND VIDEO SYSTEMS Television monitoring and surveillance systems, Video security systems, Video entertainment systems, Video educational systems, Microwave transmission systems, CATV and CCTV

D. SECURITY SYSTEMS Perimeter security systems
Vibration sensor systems Card access systems Access control systems Sonar/infrared monitoring equipment

E. COMMUNICATIONS SYSTEMS THAT TRANSMIT OR RECEIVE INFORMATION AND/OR CONTROL SYSTEMS THAT ARE INTRINSIC TO THE ABOVE LISTED SYSTEMS SCADA (Supervisory Control and Data Acquisition) PCM (Pulse Code Modulation)

Inventory Control Systems Digital Data Systems
Broadband and Baseband and Carriers Point of Sale Systems VSAT Data Systems Data Communication Systems RF and Remote Control Systems Fiber Optic Data Systems
WORK EXCLUDED Raceway systems are not covered (excluding Ladder-Rack for the purpose of the above listed systems). Chases and/or nipples (not to exceed 10 feet) may be installed on open wiring systems. Energy management systems. SCADA (Supervisory Control and Data Acquisition) when not intrinsic to the above listed systems (in the scope). Fire alarm systems when installed in raceways (including wire and cable pulling) shall be performed at the electrician wage rate, when either of the following two (2) conditions apply:

1. The project involves new or major remodel building trades construction.
2. The conductors for the fire alarm system are installed in conduit.

ELEC0340-003 08/01/2020

ALPINE (West of Sierra Mt. Watershed), AMADOR, BUTTE, COLUSA,
EL DORADO (West of Sierra Mt. Watershed), GLENN, LASSEN, NEVADA
(West of Sierra Mt. Watershed), PLACER, PLUMAS, SACRAMENTO,
SHASTA, SIERRA (West of Sierra Mt. Watershed), SUTTER, TEHAMA,
TRINITY, YOLO & YUBA COUNTIES

	Rates	Fringes
ELECTRICIAN		
Remaining area.....	\$ 40.56	32.46
Sierra Army Depot, Herlong..	\$ 48.83	18.54
Tunnel work.....	\$ 41.01	18.54

CABLE SPLICER: Receives 110% of the Electrician basic hourly rate.

ELEC0401-005 07/01/2020

ALPINE (east of the main watershed divide), EL DORADO (east of the main watershed divide), NEVADA (east of the main watershed), PLACER (east of the main watershed divide) and SIERRA (east of the main watershed divide) COUNTIES:

	Rates	Fringes
ELECTRICIAN.....	\$ 41.50	20.17

ZONE RATE:

70-90 miles - \$8.00 per hour
91+ miles - \$10.00 per hour

ELEC0551-004 06/01/2020

MARIN AND SONOMA COUNTIES

	Rates	Fringes
ELECTRICIAN.....	\$ 52.40	3%+23.31

ELEC0551-005 12/21/2020

MARIN & SONOMA COUNTIES

	Rates	Fringes
Sound & Communications		
Installer.....	\$ 42.11	22.41
Technician.....	\$ 48.43	22.60

SCOPE OF WORK INCLUDES-

SOUND & VOICE TRANSMISSION (Music, Intercom, Nurse Call, Telephone); FIRE ALARM SYSTEMS [excluding fire alarm work when installed in raceways (including wire and cable pulling) and when performed on new or major remodel building projects or jobs], TELEVISION & VIDEO SYSTEMS, SECURITY SYSTEMS, COMMUNICATIONS SYSTEMS that transmit or receive information and/or control

systems that are intrinsic to the above.

EXCLUDES-

Excludes all other data systems or multiple systems which include control function or power supply; excludes installation of raceway systems, line voltage work, industrial work, life-safety systems (all buildings having floors located more than 75' above the lowest floor level having building access); excludes energy management systems.

ELEC0659-006 01/01/2020

DEL NORTE, MODOC and SISKIYOU COUNTIES

	Rates	Fringes
ELECTRICIAN.....	\$ 36.59	17.39

ELEC0659-008 02/01/2019

DEL NORTE, MODOC & SISKIYOU COUNTIES

	Rates	Fringes
Line Construction		
(1) Cable Splicer.....	\$ 59.09	20.22
(2) Lineman, Pole Sprayer, Heavy Line Equipment Man....	\$ 52.76	19.96
(3) Tree Trimmer.....	\$ 31.10	11.32
(4) Line Equipment Man.....	\$ 52.76	19.96
(5) Powdermen, Jackhammermen.....	\$ 33.80	13.35
(6) Groundman.....	\$ 33.24	14.79

ELEC1245-004 06/01/2020

ALL COUNTIES EXCEPT DEL NORTE, MODOC & SISKIYOU

	Rates	Fringes
LINE CONSTRUCTION		
(1) Lineman; Cable splicer..	\$ 59.14	20.78
(2) Equipment specialist (operates crawler tractors, commercial motor vehicles, backhoes, trenchers, cranes (50 tons and below), overhead & underground distribution line equipment).....	\$ 47.24	19.59
(3) Groundman.....	\$ 36.12	19.19
(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

ELEV0008-001 01/01/2021

	Rates	Fringes
ELEVATOR MECHANIC.....	\$ 72.10	35.825+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.

 ENGI0003-008 07/20/2020

	Rates	Fringes
Dredging: (DREDGING: CLAMSHELL & DIPPER DREDGING; HYDRAULIC SUCTION DREDGING:)		
AREA 1:		
(1) Leverman.....	\$ 49.88	34.35
(2) Dredge Dozer; Heavy duty repairman.....	\$ 44.92	34.35
(3) Booster Pump Operator; Deck Engineer; Deck mate; Dredge Tender; Winch Operator.....	\$ 43.80	34.35
(4) Bargeman; Deckhand; Fireman; Leveehand; Oiler..	\$ 40.50	34.35
AREA 2:		
(1) Leverman.....	\$ 51.88	34.35
(2) Dredge Dozer; Heavy duty repairman.....	\$ 46.92	34.35
(3) Booster Pump Operator; Deck Engineer; Deck mate; Dredge Tender; Winch Operator.....	\$ 45.80	34.35
(4) Bargeman; Deckhand; Fireman; Leveehand; Oiler..	\$ 42.50	34.35

AREA DESCRIPTIONS

AREA 1: ALAMEDA,BUTTE, CONTRA COSTA, KINGS, MARIN, MERCED,
 NAPA, SACRAMENTO, SAN BENITO, SAN FRANCISCO, SAN JOAQUIN,
 SAN MATEO, SANTA CLARA, SANTA CRUZ, SOLANO, STANISLAUS,
 SUTTER, YOLO, AND YUBA COUNTIES

AREA 2: MODOC COUNTY

THE REMAINING COUNTIES ARE SPLIT BETWEEN AREA 1 AND AREA 2
 AS NOTED BELOW:

ALPINE COUNTY:

Area 1: Northernmost part
 Area 2: Remainder

CALAVERAS COUNTY:

Area 1: Remainder
 Area 2: Eastern part

COLUSA COUNTY:

Area 1: Eastern part
 Area 2: Remainder

ELDORADO COUNTY:

Area 1: North Central part
Area 2: Remainder

FRESNO COUNTY:

Area 1: Remainder
Area 2: Eastern part

GLENN COUNTY:

Area 1: Eastern part
Area 2: Remainder

LASSEN COUNTY:

Area 1: Western part along the Southern portion of border
with Shasta County
Area 2: Remainder

MADERA COUNTY:

Area 1: Except Eastern part
Area 2: Eastern part

MARIPOSA COUNTY

Area 1: Except Eastern part
Area 2: Eastern part

MONTERREY COUNTY

Area 1: Except Southwestern part
Area 2: Southwestern part

NEVADA COUNTY:

Area 1: All but the Northern portion along the border of
Sierra County
Area 2: Remainder

PLACER COUNTY:

Area 1: All but the Central portion
Area 2: Remainder

PLUMAS COUNTY:

Area 1: Western portion
Area 2: Remainder

SHASTA COUNTY:

Area 1: All but the Northeastern corner
Area 2: Remainder

SIERRA COUNTY:

Area 1: Western part
Area 2: Remainder

SISKIYOU COUNTY:

Area 1: Central part
Area 2: Remainder

SONOMA COUNTY:

Area 1: All but the Northwestern corner
Area 2: Remainder

TEHAMA COUNTY:

Area 1: All but the Western border with Mendocino & Trinity
Counties
Area 2: Remainder

TRINITY COUNTY:

Area 1: East Central part and the Northeastern border with
Shasta County

Area 2: Remainder

TUOLUMNE COUNTY:

Area 1: Except Eastern part

Area 2: Eastern part

ENGI0003-019 06/29/2020

SEE AREA DESCRIPTIONS BELOW

	Rates	Fringes
OPERATOR: Power Equipment (LANDSCAPE WORK ONLY)		
GROUP 1		
AREA 1.....	\$ 39.95	30.28
AREA 2.....	\$ 41.95	30.28
GROUP 2		
AREA 1.....	\$ 36.35	30.28
AREA 2.....	\$ 38.35	30.28
GROUP 3		
AREA 1.....	\$ 31.74	30.28
AREA 2.....	\$ 33.74	30.28

GROUP DESCRIPTIONS:

GROUP 1: Landscape Finish Grade Operator: All finish grade work regardless of equipment used, and all equipment with a rating more than 65 HP.

GROUP 2: Landscape Operator up to 65 HP: All equipment with a manufacturer's rating of 65 HP or less except equipment covered by Group 1 or Group 3. The following equipment shall be included except when used for finish work as long as manufacturer's rating is 65 HP or less: A-Frame and Winch Truck, Backhoe, Forklift, Hydragraphic Seeder Machine, Roller, Rubber-Tired and Track Earthmoving Equipment, Skiploader, Straw Blowers, and Trencher 31 HP up to 65 HP.

GROUP 3: Landscae Utility Operator: Small Rubber-Tired Tractor, Trencher Under 31 HP.

AREA DESCRIPTIONS:

AREA 1: ALAMEDA, BUTTE, CONTRA COSTA, KINGS, MARIN, MERCED, NAPA, SACRAMENTO, SAN BENITO, SAN FRANCISCO, SAN JOAQUIN, SAN MATEO, SANTA CLARA, SANTA CRUZ, SOLANO, STANISLAUS, SUTTER, YOLO, AND YUBA COUNTIES

AREA 2 - MODOC COUNTY

THE REMAINING COUNTIES ARE SPLIT BETWEEN AREA 1 AND AREA 2 AS NOTED BELOW:

ALPINE COUNTY:

Area 1: Northernmost part

Area 2: Remainder

CALAVERAS COUNTY:

Area 1: Except Eastern part

Area 2: Eastern part

COLUSA COUNTY:

Area 1: Eastern part
Area 2: Remainder

DEL NORTE COUNTY:
Area 1: Extreme Southwestern corner
Area 2: Remainder

ELDORADO COUNTY:
Area 1: North Central part
Area 2: Remainder

FRESNO COUNTY
Area 1: Except Eastern part
Area 2: Eastern part

GLENN COUNTY:
Area 1: Eastern part
Area 2: Remainder

HUMBOLDT COUNTY:
Area 1: Except Eastern and Southwestern parts
Area 2: Remainder

LAKE COUNTY:
Area 1: Southern part
Area 2: Remainder

LASSEN COUNTY:
Area 1: Western part along the Southern portion of border
with Shasta County
Area 2: Remainder

MADERA COUNTY
Area 1: Remainder
Area 2: Eastern part

MARIPOSA COUNTY
Area 1: Remainder
Area 2: Eastern part

MENDOCINO COUNTY:
Area 1: Central and Southeastern parts
Area 2: Remainder

MONTEREY COUNTY
Area 1: Remainder
Area 2: Southwestern part

NEVADA COUNTY:
Area 1: All but the Northern portion along the border of
Sierra County
Area 2: Remainder

PLACER COUNTY:
Area 1: All but the Central portion
Area 2: Remainder

PLUMAS COUNTY:
Area 1: Western portion
Area 2: Remainder

SHASTA COUNTY:
Area 1: All but the Northeastern corner
Area 2: Remainder

SIERRA COUNTY:
 Area 1: Western part
 Area 2: Remainder

SISKIYOU COUNTY:
 Area 1: Central part
 Area 2: Remainder

SONOMA COUNTY:
 Area 1: All but the Northwestern corner
 Area 2: Reaminder

TEHAMA COUNTY:
 Area 1: All but the Western border with mendocino & Trinity
 Counties
 Area 2: Remainder

TRINITY COUNTY:
 Area 1: East Central part and the Northeaster border with
 Shasta County
 Area 2: Remainder

TULARE COUNTY;
 Area 1: Remainder
 Area 2: Eastern part

TUOLUMNE COUNTY:
 Area 1: Remainder
 Area 2: Eastern Part

 ENGI0003-038 06/29/2020

""AREA 1"" WAGE RATES ARE LISTED BELOW

""AREA 2"" RECEIVES AN ADDITIONAL \$2.00 PER HOUR ABOVE AREA 1
 RATES.

SEE AREA DEFINITIONS BELOW

	Rates	Fringes
OPERATOR: Power Equipment		
(AREA 1:)		
GROUP 1.....	\$ 51.42	31.15
GROUP 2.....	\$ 49.89	31.15
GROUP 3.....	\$ 48.41	31.15
GROUP 4.....	\$ 47.03	31.15
GROUP 5.....	\$ 45.76	31.15
GROUP 6.....	\$ 44.44	31.15
GROUP 7.....	\$ 43.30	31.15
GROUP 8.....	\$ 42.16	31.15
GROUP 8-A.....	\$ 39.95	31.15
OPERATOR: Power Equipment		
(Cranes and Attachments -		
AREA 1:)		
GROUP 1		
Cranes.....	\$ 52.30	31.15
Oiler.....	\$ 43.79	31.15
Truck crane oiler.....	\$ 46.08	31.15
GROUP 2		
Cranes.....	\$ 50.54	31.15
Oiler.....	\$ 42.83	31.15
Truck crane oiler.....	\$ 45.07	31.15

GROUP 3		
Cranes.....	\$ 48.80	31.15
Hydraulic.....	\$ 44.44	31.15
Oiler.....	\$ 42.55	31.15
Truck crane oiler.....	\$ 44.83	31.15
GROUP 4		
Cranes.....	\$ 45.76	31.15
OPERATOR: Power Equipment		
(Piledriving - AREA 1:)		
GROUP 1		
Lifting devices.....	\$ 52.64	31.15
Oiler.....	\$ 43.38	31.15
Truck Crane Oiler.....	\$ 45.66	31.15
GROUP 2		
Lifting devices.....	\$ 50.82	31.15
Oiler.....	\$ 43.11	31.15
Truck Crane Oiler.....	\$ 45.41	31.15
GROUP 3		
Lifting devices.....	\$ 49.14	31.15
Oiler.....	\$ 42.89	31.15
Truck Crane Oiler.....	\$ 45.12	31.15
GROUP 4		
Lifting devices.....	\$ 47.37	31.15
GROUP 5		
Lifting devices.....	\$ 44.73	31.15
GROUP 6		
Lifting devices.....	\$ 42.50	31.15
OPERATOR: Power Equipment		
(Steel Erection - AREA 1:)		
GROUP 1		
Cranes.....	\$ 53.27	31.15
Oiler.....	\$ 43.72	31.15
Truck Crane Oiler.....	\$ 45.95	31.15
GROUP 2		
Cranes.....	\$ 51.50	31.15
Oiler.....	\$ 43.45	31.15
Truck Crane Oiler.....	\$ 45.73	31.15
GROUP 3		
Cranes.....	\$ 50.02	31.15
Hydraulic.....	\$ 45.07	31.15
Oiler.....	\$ 43.23	31.15
Truck Crane Oiler.....	\$ 45.46	31.15
GROUP 4		
Cranes.....	\$ 48.00	31.15
GROUP 5		
Cranes.....	\$ 46.70	31.15
OPERATOR: Power Equipment		
(Tunnel and Underground Work		
- AREA 1:)		
SHAFTS, STOPES, RAISES:		
GROUP 1.....	\$ 47.52	31.15
GROUP 1-A.....	\$ 49.99	31.15
GROUP 2.....	\$ 46.26	31.15
GROUP 3.....	\$ 44.93	31.15
GROUP 4.....	\$ 43.79	31.15
GROUP 5.....	\$ 42.65	31.15
UNDERGROUND:		
GROUP 1.....	\$ 47.42	31.15
GROUP 1-A.....	\$ 49.89	31.15
GROUP 2.....	\$ 46.16	31.15
GROUP 3.....	\$ 44.83	31.15
GROUP 4.....	\$ 43.69	31.15
GROUP 5.....	\$ 42.55	31.15

FOOTNOTE: Work suspended by ropes or cables, or work on a

Yo-Yo Cat: \$.60 per hour additional.

POWER EQUIPMENT OPERATOR CLASSIFICATIONS

GROUP 1: Operator of helicopter (when used in erection work); Hydraulic excavator, 7 cu. yds. and over; Power shovels, over 7 cu. yds.

GROUP 2: Highline cableway; Hydraulic excavator, 3-1/2 cu. yds. up to 7 cu. yds.; Licensed construction work boat operator, on site; Power blade operator (finish); Power shovels, over 1 cu. yd. up to and including 7 cu. yds. m.r.c.

GROUP 3: Asphalt milling machine; Cable backhoe; Combination backhoe and loader over 3/4 cu. yds.; Continuous flight tie back machine assistant to engineer or mechanic; Crane mounted continuous flight tie back machine, tonnage to apply; Crane mounted drill attachment, tonnage to apply; Dozer, slope brd; Gradall; Hydraulic excavator, up to 3 1/2 cu. yds.; Loader 4 cu. yds. and over; Long reach excavator; Multiple engine scraper (when used as push pull); Power shovels, up to and including 1 cu. yd.; Pre-stress wire wrapping machine; Side boom cat, 572 or larger; Track loader 4 cu. yds. and over; Wheel excavator (up to and including 750 cu. yds. per hour)

GROUP 4: Asphalt plant engineer/box person; Chicago boom; Combination backhoe and loader up to and including 3/4 cu. yd.; Concrete batch plant (wet or dry); Dozer and/or push cat; Pull- type elevating loader; Gradesetter, grade checker (GPS, mechanical or otherwise); Grooving and grinding machine; Heading shield operator; Heavy-duty drilling equipment, Hughes, LDH, Watson 3000 or similar; Heavy-duty repairperson and/or welder; Lime spreader; Loader under 4 cu. yds.; Lubrication and service engineer (mobile and grease rack); Mechanical finishers or spreader machine (asphalt, Barber-Greene and similar); Miller Formless M-9000 slope paver or similar; Portable crushing and screening plants; Power blade support; Roller operator, asphalt; Rubber-tired scraper, self-loading (paddle-wheels, etc.); Rubber- tired earthmoving equipment (scrapers); Slip form paver (concrete); Small tractor with drag; Soil stabilizer (P & H or equal); Spider plow and spider puller; Tubex pile rig; Unlicensed constuction work boat operator, on site; Timber skidder; Track loader up to 4 yds.; Tractor-drawn scraper; Tractor, compressor drill combination; Welder; Woods-Mixer (and other similar Pugmill equipment)

GROUP 5: Cast-in-place pipe laying machine; Combination slusher and motor operator; Concrete conveyor or concrete pump, truck or equipment mounted; Concrete conveyor, building site; Concrete pump or pumpcrete gun; Drilling equipment, Watson 2000, Texoma 700 or similar; Drilling and boring machinery, horizontal (not to apply to waterliners, wagon drills or jackhammers); Concrete mixer/all; Person and/or material hoist; Mechanical finishers (concrete) (Clary, Johnson, Bidwell Bridge Deck or similar types); Mechanical burm, curb and/or curb and gutter machine, concrete or asphalt); Mine or shaft hoist; Portable crusher; Power jumbo operator (setting slip-forms, etc., in tunnels); Screed (automatic or manual); Self-propelled compactor with dozer; Tractor with boom D6 or smaller;

Trenching machine, maximum digging capacity over 5 ft. depth; Vermeer T-600B rock cutter or similar

GROUP 6: Armor-Coater (or similar); Ballast jack tamper; Boom- type backfilling machine; Assistant plant engineer; Bridge and/or gantry crane; Chemical grouting machine, truck-mounted; Chip spreading machine operator; Concrete saw (self-propelled unit on streets, highways, airports and canals); Deck engineer; Drilling equipment Texoma 600, Hughes 200 Series or similar up to and including 30 ft. m.r.c.; Drill doctor; Helicopter radio operator; Hydro-hammer or similar; Line master; Skidsteer loader, Bobcat larger than 743 series or similar (with attachments); Locomotive; Lull hi-lift or similar; Oiler, truck mounted equipment; Pavement breaker, truck-mounted, with compressor combination; Paving fabric installation and/or laying machine; Pipe bending machine (pipelines only); Pipe wrapping machine (tractor propelled and supported); Screed (except asphaltic paving); Self-propelled pipeline wrapping machine; Tractor; Self-loading chipper; Concrete barrier moving machine

GROUP 7: Ballast regulator; Boom truck or dual-purpose A-frame truck, non-rotating - under 15 tons; Cary lift or similar; Combination slurry mixer and/or cleaner; Drilling equipment, 20 ft. and under m.r.c.; Firetender (hot plant); Grouting machine operator; Highline cableway signalperson; Stationary belt loader (Kolman or similar); Lift slab machine (Vagtborg and similar types); Maginnes internal full slab vibrator; Material hoist (1 drum); Mechanical trench shield; Pavement breaker with or without compressor combination); Pipe cleaning machine (tractor propelled and supported); Post driver; Roller (except asphalt); Chip Seal; Self-propelled automatically applied concrete curing machine (on streets, highways, airports and canals); Self-propelled compactor (without dozer); Signalperson; Slip-form pumps (lifting device for concrete forms); Tie spacer; Tower mobile; Trenching machine, maximum digging capacity up to and including 5 ft. depth; Truck- type loader

GROUP 8: Bit sharpener; Boiler tender; Box operator; Brakeperson; Combination mixer and compressor (shotcrete/gunite); Compressor operator; Deckhand; Fire tender; Forklift (under 20 ft.); Generator; Gunite/shotcrete equipment operator; Hydraulic monitor; Ken seal machine (or similar); Mixermobile; Oiler; Pump operator; Refrigeration plant; Reservoir-debris tug (self-propelled floating); Ross Carrier (construction site); Rotomist operator; Self-propelled tape machine; Shuttlecar; Self-propelled power sweeper operator (includes vacuum sweeper); Slusher operator; Surface heater; Switchperson; Tar pot firetender; Tugger hoist, single drum; Vacuum cooling plant; Welding machine (powered other than by electricity)

GROUP 8-A: Elevator operator; Skidsteer loader-Bobcat 743 series or smaller, and similar (without attachments); Mini excavator under 25 H.P. (backhoe-trencher); Tub grinder wood chipper

ALL CRANES AND ATTACHMENTS

GROUP 1: Clamshell and dragline over 7 cu. yds.; Crane, over

100 tons; Derrick, over 100 tons; Derrick barge pedestal-mounted, over 100 tons; Self-propelled boom-type lifting device, over 100 tons

GROUP 2: Clamshell and dragline over 1 cu. yd. up to and including 7 cu. yds.; Crane, over 45 tons up to and including 100 tons; Derrick barge, 100 tons and under; Self-propelled boom-type lifting device, over 45 tons; Tower crane

GROUP 3: Clamshell and dragline up to and including 1 cu. yd.; Cranes 45 tons and under; Self-propelled boom-type lifting device 45 tons and under;

GROUP 4: Boom Truck or dual purpose A-frame truck, non-rotating over 15 tons; Truck-mounted rotating telescopic boom type lifting device, Manitex or similar (boom truck) over 15 tons; Truck-mounted rotating telescopic boom type lifting device, Manitex or similar (boom truck) - under 15 tons;

PILEDRIVERS

GROUP 1: Derrick barge pedestal mounted over 100 tons; Clamshell over 7 cu. yds.; Self-propelled boom-type lifting device over 100 tons; Truck crane or crawler, land or barge mounted over 100 tons

GROUP 2: Derrick barge pedestal mounted 45 tons to and including 100 tons; Clamshell up to and including 7 cu. yds.; Self-propelled boom-type lifting device over 45 tons; Truck crane or crawler, land or barge mounted, over 45 tons up to and including 100 tons; Fundex F-12 hydraulic pile rig

GROUP 3: Derrick barge pedestal mounted under 45 tons; Self-propelled boom-type lifting device 45 tons and under; Skid/scow piledriver, any tonnage; Truck crane or crawler, land or barge mounted 45 tons and under

GROUP 4: Assistant operator in lieu of assistant to engineer; Forklift, 10 tons and over; Heavy-duty repairperson/welder

GROUP 5: Deck engineer

GROUP 6: Deckhand; Fire tender

STEEL ERECTORS

GROUP 1: Crane over 100 tons; Derrick over 100 tons; Self-propelled boom-type lifting device over 100 tons

GROUP 2: Crane over 45 tons to 100 tons; Derrick under 100 tons; Self-propelled boom-type lifting device over 45 tons to 100 tons; Tower crane

GROUP 3: Crane, 45 tons and under; Self-propelled boom-type lifting device, 45 tons and under

GROUP 4: Chicago boom; Forklift, 10 tons and over; Heavy-duty repair person/welder

GROUP 5: Boom cat

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TUNNEL AND UNDERGROUND WORK

GROUP 1-A: Tunnel bore machine operator, 20' diameter or more

GROUP 1: Heading shield operator; Heavy-duty repairperson; Mucking machine (rubber tired, rail or track type); Raised bore operator (tunnels); Tunnel mole bore operator

GROUP 2: Combination slusher and motor operator; Concrete pump or pumpcrete gun; Power jumbo operator

GROUP 3: Drill doctor; Mine or shaft hoist

GROUP 4: Combination slurry mixer cleaner; Grouting Machine operator; Motorman

GROUP 5: Bit Sharpener; Brakeman; Combination mixer and compressor (gunite); Compressor operator; Oiler; Pump operator; Slusher operator

AREA DESCRIPTIONS:

POWER EQUIPMENT OPERATORS, CRANES AND ATTACHMENTS, TUNNEL AND UNDERGROUND [These areas do not apply to Piledrivers and Steel Erectors]

AREA 1: DEL NORTE, HUMBOLDT, LAKE, MENDOCINO
AREA 2 -NOTED BELOW

THE REMAINING COUNTIES ARE SPLIT BETWEEN AREA 1 AND AREA 2 AS NOTED BELOW:

DEL NORTE COUNTY:

Area 1: Extreme Southwest corner
Area 2: Remainder

HUMBOLDT COUNTY:

Area 1: Except Eastern and Southwestern parts
Area 2: Remainder

LAKE COUNTY:

Area 1: Southern part
Area 2: Remainder

MENDOCINO COUNTY:

Area 1: Central and Southeastern Parts
Area 2: Remainder

IRON0433-006 07/01/2020

	Rates	Fringes
IRONWORKER		
Fence Erector.....	\$ 34.58	24.81
Ornamental, Reinforcing and Structural.....	\$ 41.00	33.45

PREMIUM PAY:

\$6.00 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

\$4.00 additional per hour at the following locations:

Army Defense Language Institute - Monterey, Fallon Air Base, Naval Post Graduate School - Monterey, Yermo Marine Corps Logistics Center

\$2.00 additional per hour at the following locations:

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

LAB00067-001 06/29/2020

AREA ""A"" - MARIN COUNTY

AREA ""B"" - ALPINE, AMADOR, BUTTE COLUSA EL DORADO, GLENN, LASSEN, MODOC, NAPA, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SISKIYOU, SOLANO, SONOMA, SUTTER, TEHAMA, TRINITY, YOLO, AND YUBA COUNTIES

	Rates	Fringes
Asbestos Removal Laborer.....	\$ 25.05	12.00
LABORER (Lead Removal)		
Marin County.....	\$ 33.07	25.30
Remaining Counties.....	\$ 32.07	25.30

LAB00067-005 06/27/2017

AREA ""A"" - ALAMEDA, CONTRA COSTA, MARIN, SAN FRANCISCO, SAN MATEO AND SANTA CLARA COUNTIES

AREA ""B"" - ALPINE, AMADOR, BUTTE, CALAVERAS, COLUSA, DEL NORTE, EL DORADO, FRESNO, GLENN, HUMBOLDT, KINGS, LAKE, LASSEN, MADERA, MARIPOSA, MENDOCINO, MERCED, MODOC, MONTEREY, NAPA, NEVADA, PLACER, PLUMAS, SANCREMENTO, SAN BENITO, SAN JOAQUIN, SANTA CRUZ, SIERRA, SHASTA, SISKIYOU, SOLANO, SONOMA, STANISLAUS, TEHAMA, TRINITY, TULARE, TUOLUMNE, YOLO AND YUBA COUNTIES

	Rates	Fringes
LABORER (TRAFFIC CONTROL/LANE CLOSURE)		
Escort Driver, Flag Person		
Area A.....	\$ 29.54	22.17
Area B.....	\$ 28.54	22.17
Traffic Control Person I		
Area A.....	\$ 29.84	22.17
Area B.....	\$ 28.84	22.17
Traffic Control Person II		

Area A.....	\$ 27.34	22.17
Area B.....	\$ 26.34	22.17

TRAFFIC CONTROL PERSON I: Layout of traffic control, crash cushions, construction area and roadside signage.

TRAFFIC CONTROL PERSON II: Installation and removal of temporary/permanent signs, markers, delineators and crash cushions.

LAB00185-002 07/01/2020

ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SISKIYOU, SUTTER, TEHAMA, TRINITY, YOLO AND YUBA COUNTIES

	Rates	Fringes
LABORER		
Mason Tender-Brick.....	\$ 32.84	23.71

LAB00185-005 06/25/2018

ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SISKIYOU, SUTTER, TEHAMA, TRINITY, YOLO AND YUBA COUNTIES

	Rates	Fringes
Tunnel and Shaft Laborers:		
GROUP 1.....	\$ 37.82	24.11
GROUP 2.....	\$ 37.59	24.11
GROUP 3.....	\$ 37.34	24.11
GROUP 4.....	\$ 36.89	24.11
GROUP 5.....	\$ 36.35	24.11
Shotcrete Specialist.....	\$ 38.34	24.11

TUNNEL AND SHAFT CLASSIFICATIONS

GROUP 1: Diamond driller; Groundmen; Gunite and shotcrete nozzlelemen

GROUP 2: Rodmen; Shaft work & raise (below actual or excavated ground level)

GROUP 3: Bit grinder; Blaster, driller, powdermen, heading; Cherry pickermen - where car is lifted; Concrete finisher in tunnel; Concrete screedman; Grout pumpman and potman; Gunite & shotcrete gunman & potman; Headermen; High pressure nozzleleman; Miner - tunnel, including top and bottom man on shaft and raise work; Nipper; Nozzleman on slick line; Sandblaster - potman, Robotic Shotcrete Placer, Segment Erector, Tunnel Muck Hauler, Steel Form raiser and setter; Timberman, retimberman (wood or steel or substitute materials therefore); Tugger (for tunnel laborer work); Cable tender; Chuck tender; Powderman - primer house

GROUP 4: Vibrator operator, pavement breaker; Bull gang - muckers, trackmen; Concrete crew - includes rodding and spreading, Dumpmen (any method)

GROUP 5: Grout crew; Reboundman; Swamper/ Brakeman

ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC,
 NEVADA, PLACER, PLUMAS, SACRAMENTO, SHIESTA, SIERRA, SISKIYOU,
 SUTTER, TEHAMA, TRINITY, YOLO, YUBA COUNTIES

	Rates	Fringes
LABORER (CONSTRUCTION CRAFT		
LABORERS - AREA B:)		
Construction Specialist		
Group.....	\$ 30.49	23.20
GROUP 1.....	\$ 29.79	23.20
GROUP 1-a.....	\$ 30.01	23.20
GROUP 1-c.....	\$ 30.01	23.20
GROUP 1-e.....	\$ 30.34	23.20
GROUP 1-f.....	\$ 30.37	23.20
GROUP 2.....	\$ 29.64	23.20
GROUP 3.....	\$ 29.54	23.20
GROUP 4.....	\$ 23.23	23.20
See groups 1-b and 1-d under laborer classifications.		
LABORER (GARDENERS,		
HORTICULTURAL & LANDSCAPE		
LABORERS - AREA B:)		
(1) New Construction.....	\$ 29.54	23.20
(2) Establishment Warranty		
Period.....	\$ 23.23	23.20
LABORER (GUNITE - AREA B:)		
GROUP 1.....	\$ 29.75	22.31
GROUP 2.....	\$ 29.25	22.31
GROUP 3.....	\$ 28.66	22.31
GROUP 4.....	\$ 28.54	22.31
LABORER (WRECKING - AREA B:)		
GROUP 1.....	\$ 29.79	23.20
GROUP 2.....	\$ 29.64	23.20

FOOTNOTES:

Laborers working off or with or from bos'n chairs, swinging scaffolds, belts shall receive \$0.25 per hour above the applicable wage rate. This shall not apply to workers entitled to receive the wage rate set forth in Group 1-a below.

LABORER CLASSIFICATIONS

CONSTRUCTION SPECIALIST GROUP: Asphalt ironer and raker; Chainsaw; Laser beam in connection with laborers' work; Cast-in- place manhole form setter; Pressure pipelayer; Davis trencher - 300 or similar type (and all small trenchers); Blaster; Diamond driller; Multiple unit drill; Hydraulic drill

GROUP 1: Asphalt spreader boxes (all types); Barko, Wacker and similar type tampers; Buggymobile; Caulker, bander, pipewrapper, conduit layer, plastic pipelayer; Certified hazardous waste worker including Leade Abatement; Compactors of all types; Concrete and magnesite mixer, 1/2 yd. and under; Concrete pan work; Concrete sander; Concrete saw; Cribber and/or shoring; Cut granite curb setter;

Dri-pak-it machine; Faller, logloader and buckler; Form raiser, slip forms; Green cutter; Headerboard, Hubsetter, aligner, by any method; High pressure blow pipe (1-1/2" or over, 100 lbs. pressure/over); Hydro seeder and similar type; Jackhammer operator; Jacking of pipe over 12 inches; Jackson and similar type compactor; Kettle tender, pot and worker applying asphalt, lay-kold, creosote, lime, caustic and similar type materials (applying means applying, dipping or handling of such materials); Lagging, sheeting, whaling, bracing, trenchjacking, lagging hammer; Magnesite, epoxyresin, fiberglass, mastic worker (wet or dry); No joint pipe and stripping of same, including repair of voids; Pavement breaker and spader, including tool grinder; Perma curb; Pipelayer (including grade checking in connection with pipelaying); Precast-manhole setter; Pressure pipe tester; Post hole digger, air, gas and electric; Power broom sweeper; Power tampers of all types (except as shown in Group 2); Ram set gun and stud gun; Riprap stonepaver and rock-slinger, including placing of sacked concrete and/or sand (wet or dry) and gabions and similar type; Rotary scarifier or multiple head concrete chipping scarifier; Roto and Ditch Witch; Rototiller; Sandblaster, pot, gun, nozzle operators; Signalling and rigging; Tank cleaner; Tree climber; Turbo blaster; Vibrascreed, bull float in connection with laborers' work; Vibrator; Hazardous waste worker (lead removal); Asbestos and mold removal worker

GROUP 1-a: Joy drill model TWM-2A; Gardner-Denver model DH143 and similar type drills; Track driller; Jack leg driller; Wagon driller; Mechanical drillers, all types regardless of type or method of power; Mechanical pipe layers, all types regardless of type or method of power; Blaster and powder; All work of loading, placing and blasting of all powder and explosives of whatever type regardless of method used for such loading and placing; High scalers (including drilling of same); Tree topper; Bit grinder

GROUP 1-b: Sewer cleaners shall receive \$4.00 per day above Group 1 wage rates. "Sewer cleaner" means any worker who handles or comes in contact with raw sewage in small diameter sewers. Those who work inside recently active, large diameter sewers, and all recently active sewer manholes shall receive \$5.00 per day above Group 1 wage rates.

GROUP 1-c: Burning and welding in connection with laborers' work; Synthetic thermoplastics and similar type welding

GROUP 1-d: Maintenance and repair track and road beds. All employees performing work covered herein shall receive \$.25 per hour above their regular rate for all work performed on underground structures not specifically covered herein. This paragraph shall not be construed to apply to work below ground level in open cut. It shall apply to cut and cover work of subway construction after the temporary cover has been placed.

GROUP 1-e: Work on and/or in bell hole footings and shafts thereof, and work on and in deep footings. (A deep footing is a hole 15 feet or more in depth.) In the event the depth of the footing is unknown at the commencement of excavation, and the final depth exceeds 15 feet, the deep footing wage rate would apply to all employees for each and every day worked on or in the excavation of the footing

from the date of inception.

GROUP 1-f: Wire winding machine in connection with guniting or shot crete

GROUP 2: Asphalt shoveler; Cement dumper and handling dry cement or gypsum; Choke-setter and rigger (clearing work); Concrete bucket dumper and chute; Concrete chipping and grinding; Concrete laborer (wet or dry); Driller tender, chuck tender, nipper; Guinea chaser (stake), grout crew; High pressure nozzle, adductor; Hydraulic monitor (over 100 lbs. pressure); Loading and unloading, carrying and hauling of all rods and materials for use in reinforcing concrete construction; Pittsburgh chipper and similar type brush shredders; Sloper; Single foot, hand-held, pneumatic tamper; All pneumatic, air, gas and electric tools not listed in Groups 1 through 1-f; Jacking of pipe - under 12 inches

GROUP 3: Construction laborers, including bridge and general laborer; Dump, load spotter; Flag person; Fire watcher; Fence erector; Guardrail erector; Gardener, horticultural and landscape laborer; Jetting; Limber, brush loader and piler; Pavement marker (button setter); Maintenance, repair track and road beds; Streetcar and railroad construction track laborer; Temporary air and water lines, Victaulic or similar; Tool room attendant (jobsite only)

GROUP 4: Final clean-up work of debris, grounds and building including but not limited to: street cleaner; cleaning and washing windows; brick cleaner (jobsite only); material cleaner (jobsite only). The classification "material cleaner" is to be utilized under the following conditions:

- A: at demolition site for the salvage of the material.
- B: at the conclusion of a job where the material is to be salvaged and stocked to be reused on another job.
- C: for the cleaning of salvage material at the jobsite or temporary jobsite yard.

The material cleaner classification should not be used in the performance of "form stripping, cleaning and oiling and moving to the next point of erection".

GUNITE LABORER CLASSIFICATIONS

GROUP 1: Structural Nozzleman

GROUP 2: Nozzleman, Gunman, Potman, Groundman

GROUP 3: Reboundman

GROUP 4: Gunite laborer

WRECKING WORK LABORER CLASSIFICATIONS

GROUP 1: Skilled wrecker (removing and salvaging of sash, windows and materials)

GROUP 2: Semi-skilled wrecker (salvaging of other building materials)

LAB00185-008 07/01/2018

	Rates	Fringes
Plasterer tender.....	\$ 32.02	23.00

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

LAB00261-002 06/25/2018

MARIN COUNTY

	Rates	Fringes
LABORER (TRAFFIC CONTROL/LANE CLOSURE)		
Escort Driver, Flag Person..	\$ 30.54	23.65
Traffic Control Person I...	\$ 30.84	23.65
Traffic Control Person II...	\$ 28.34	23.65

TRAFFIC CONTROL PERSON I: Layout of traffic control, crash cushions, construction area and roadside signage.

TRAFFIC CONTROL PERSON II: Installation and removal of temporary/permanent signs, markers, delineators and crash cushions.

LAB00261-004 06/25/2018

MARIN COUNTY

	Rates	Fringes
Tunnel and Shaft Laborers:		
GROUP 1.....	\$ 37.82	24.11
GROUP 2.....	\$ 37.59	24.11
GROUP 3.....	\$ 37.34	24.11
GROUP 4.....	\$ 36.89	24.11
GROUP 5.....	\$ 36.35	24.11
Shotcrete Specialist.....	\$ 38.34	24.11

TUNNEL AND SHAFT CLASSIFICATIONS

GROUP 1: Diamond driller; Groundmen; Gunite and shotcrete nozzlemen

GROUP 2: Rodmen; Shaft work & raise (below actual or excavated ground level)

GROUP 3: Bit grinder; Blaster, driller, powdermen, heading; Cherry pickermen - where car is lifted; Concrete finisher in tunnel; Concrete screedman; Grout pumpman and potman; Gunite & shotcrete gunman & potman; Headermen; High pressure nozzleman; Miner - tunnel, including top and bottom man on shaft and raise work; Nipper; Nozzleman on slick line; Sandblaster - potman, Robotic Shotcrete Placer, Segment Erector, Tunnel Muck Hauler, Steel Form raiser and setter; Timberman, retimberman (wood or steel or substitute materials therefore); Tugger (for tunnel laborer work); Cable tender; Chuck tender; Powderman - primer house

GROUP 4: Vibrator operator, pavement breaker; Bull gang - muckers, trackmen; Concrete crew - includes rodding and

spreading, Dumpmen (any method)

GROUP 5: Grout crew; Reboundman; Swamper/ Brakeman

LAB00261-007 07/01/2018

MARIN AND NAPA COUNTIES

	Rates	Fringes
LABORER		
Mason Tender-Brick.....	\$ 32.45	22.20

LAB00261-010 06/25/2018

MARIN COUNTY

	Rates	Fringes
LABORER (CONSTRUCTION CRAFT LABORERS - AREA A:)		
Construction Specialist		
Group.....	\$ 31.49	23.20
GROUP 1.....	\$ 30.79	23.20
GROUP 1-a.....	\$ 31.01	23.20
GROUP 1-c.....	\$ 30.84	23.20
GROUP 1-e.....	\$ 31.34	23.20
GROUP 1-f.....	\$ 31.37	23.20
GROUP 2.....	\$ 30.64	23.20
GROUP 3.....	\$ 30.54	23.20
GROUP 4.....	\$ 24.23	23.20

See groups 1-b and 1-d under laborer classifications.

LABORER (GARDENERS,
HORTICULTURAL & LANDSCAPE
LABORERS - AREA A:)

(1) New Construction.....	\$ 30.54	23.20
(2) Establishment Warranty Period.....	\$ 24.23	23.20

LABORER (GUNITE - AREA A:)

GROUP 1.....	\$ 30.75	22.31
GROUP 2.....	\$ 30.25	22.31
GROUP 3.....	\$ 29.66	22.31
GROUP 4.....	\$ 29.54	22.31

LABORER (WRECKING - AREA A:)

GROUP 1.....	\$ 30.79	23.20
GROUP 2.....	\$ 30.64	23.20

FOOTNOTES:

Laborers working off or with or from bos'n chairs, swinging scaffolds, belts shall receive \$0.25 per hour above the applicable wage rate. This shall not apply to workers entitled to receive the wage rate set forth in Group 1-a below.

LABORER CLASSIFICATIONS

CONSTRUCTION SPECIALIST GROUP: Asphalt ironer and raker; Chainsaw; Laser beam in connection with laborers' work; Cast-in- place manhole form setter; Pressure pipelayer; Davis trencher - 300 or similar type (and all small trenchers); Blaster; Diamond driller; Multiple unit drill;

Hydraulic drill

GROUP 1: Asphalt spreader boxes (all types); Barko, Wacker and similar type tampers; Buggymobile; Caulker, bander, pipewrapper, conduit layer, plastic pipelayer; Certified hazardous waste worker including Leade Abatement; Compactors of all types; Concrete and magnesite mixer, 1/2 yd. and under; Concrete pan work; Concrete sander; Concrete saw; Cribber and/or shoring; Cut granite curb setter; Dri-pak-it machine; Faller, logloader and bucket; Form raiser, slip forms; Green cutter; Headerboard, Hubsetter, aligner, by any method; High pressure blow pipe (1-1/2" or over, 100 lbs. pressure/over); Hydro seeder and similar type; Jackhammer operator; Jacking of pipe over 12 inches; Jackson and similar type compactor; Kettle tender, pot and worker applying asphalt, lay-kold, creosote, lime, caustic and similar type materials (applying means applying, dipping or handling of such materials); Lagging, sheeting, whaling, bracing, trenchjacking, lagging hammer; Magnesite, epoxyresin, fiberglass, mastic worker (wet or dry); No joint pipe and stripping of same, including repair of voids; Pavement breaker and spader, including tool grinder; Perma curb; Pipelayer (including grade checking in connection with pipelaying); Precast-manhole setter; Pressure pipe tester; Post hole digger, air, gas and electric; Power broom sweeper; Power tampers of all types (except as shown in Group 2); Ram set gun and stud gun; Riprap stonepaver and rock-slinger, including placing of sacked concrete and/or sand (wet or dry) and gabions and similar type; Rotary scarifier or multiple head concrete chipping scarifier; Roto and Ditch Witch; Rototiller; Sandblaster, pot, gun, nozzle operators; Signalling and rigging; Tank cleaner; Tree climber; Turbo blaster; Vibrascreed, bull float in connection with laborers' work; Vibrator; Hazardous waste worker (lead removal); Asbestos and mold removal worker

GROUP 1-a: Joy drill model TWM-2A; Gardner-Denver model DH143 and similar type drills; Track driller; Jack leg driller; Wagon driller; Mechanical drillers, all types regardless of type or method of power; Mechanical pipe layers, all types regardless of type or method of power; Blaster and powder; All work of loading, placing and blasting of all powder and explosives of whatever type regardless of method used for such loading and placing; High scalers (including drilling of same); Tree topper; Bit grinder

GROUP 1-b: Sewer cleaners shall receive \$4.00 per day above Group 1 wage rates. "Sewer cleaner" means any worker who handles or comes in contact with raw sewage in small diameter sewers. Those who work inside recently active, large diameter sewers, and all recently active sewer manholes shall receive \$5.00 per day above Group 1 wage rates.

GROUP 1-c: Burning and welding in connection with laborers' work; Synthetic thermoplastics and similar type welding

GROUP 1-d: Maintenance and repair track and road beds. All employees performing work covered herein shall receive \$.25 per hour above their regular rate for all work performed on underground structures not specifically covered herein. This paragraph shall not be construed to apply to work below ground level in open cut. It shall apply to cut and cover work of subway construction after

the temporary cover has been placed.

GROUP 1-e: Work on and/or in bell hole footings and shafts thereof, and work on and in deep footings. (A deep footing is a hole 15 feet or more in depth.) In the event the depth of the footing is unknown at the commencement of excavation, and the final depth exceeds 15 feet, the deep footing wage rate would apply to all employees for each and every day worked on or in the excavation of the footing from the date of inception.

GROUP 1-f: Wire winding machine in connection with guniting or shot crete

GROUP 2: Asphalt shoveler; Cement dumper and handling dry cement or gypsum; Choke-setter and rigger (clearing work); Concrete bucket dumper and chute; Concrete chipping and grinding; Concrete laborer (wet or dry); Driller tender, chuck tender, nipper; Guinea chaser (stake), grout crew; High pressure nozzle, adductor; Hydraulic monitor (over 100 lbs. pressure); Loading and unloading, carrying and hauling of all rods and materials for use in reinforcing concrete construction; Pittsburgh chipper and similar type brush shredders; Sloper; Single foot, hand-held, pneumatic tamper; All pneumatic, air, gas and electric tools not listed in Groups 1 through 1-f; Jacking of pipe - under 12 inches

GROUP 3: Construction laborers, including bridge and general laborer; Dump, load spotter; Flag person; Fire watcher; Fence erector; Guardrail erector; Gardener, horticultural and landscape laborer; Jetting; Limber, brush loader and piler; Pavement marker (button setter); Maintenance, repair track and road beds; Streetcar and railroad construction track laborer; Temporary air and water lines, Victaulic or similar; Tool room attendant (jobsite only)

GROUP 4: Final clean-up work of debris, grounds and building including but not limited to: street cleaner; cleaning and washing windows; brick cleaner (jobsite only); material cleaner (jobsite only). The classification ""material cleaner"" is to be utilized under the following conditions:

- A: at demolition site for the salvage of the material.
- B: at the conclusion of a job where the material is to be salvaged and stocked to be reused on another job.
- C: for the cleaning of salvage material at the jobsite or temporary jobsite yard.

The material cleaner classification should not be used in the performance of ""form stripping, cleaning and oiling and moving to the next point of erection"".

GUNITE LABORER CLASSIFICATIONS

GROUP 1: Structural Nozzleman

GROUP 2: Nozzleman, Gunman, Potman, Groundman

GROUP 3: Reboundman

GROUP 4: Guniting laborer

WRECKING WORK LABORER CLASSIFICATIONS

GROUP 1: Skilled wrecker (removing and salvaging of sash, windows and materials)

GROUP 2: Semi-skilled wrecker (salvaging of other building materials)

LAB00261-015 07/01/2018

	Rates	Fringes
Plasterer tender.....	\$ 32.02	23.00

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

LAB00324-004 06/25/2018

NAPA, SOLANO, AND SONOMA, COUNTIES

	Rates	Fringes
LABORER (TRAFFIC CONTROL/LANE CLOSURE)		
Escort Driver, Flag Person..	\$ 29.54	23.65
Traffic Control Person I....	\$ 29.84	23.65
Traffic Control Person II...	\$ 27.34	23.65

TRAFFIC CONTROL PERSON I: Layout of traffic control, crash cushions, construction area and roadside signage.

TRAFFIC CONTROL PERSON II: Installation and removal of temporary/permanent signs, markers, delineators and crash cushions.

LAB00324-008 06/25/2018

NAPA, SOLANO, AND SONOMA COUNTIES

	Rates	Fringes
Tunnel and Shaft Laborers:		
GROUP 1.....	\$ 37.82	24.11
GROUP 2.....	\$ 37.59	24.11
GROUP 3.....	\$ 37.34	24.11
GROUP 4.....	\$ 36.89	24.11
GROUP 5.....	\$ 36.35	24.11
Shotcrete Specialist.....	\$ 38.34	24.11

TUNNEL AND SHAFT CLASSIFICATIONS

GROUP 1: Diamond driller; Groundmen; Gunite and shotcrete nozzle men

GROUP 2: Rodmen; Shaft work & raise (below actual or excavated ground level)

GROUP 3: Bit grinder; Blaster, driller, powdermen, heading; Cherry pickermen - where car is lifted; Concrete finisher in tunnel; Concrete screedman; Grout pumpman and potman; Gunite & shotcrete gunman & potman; Headermen; High pressure nozzle man; Miner - tunnel, including top and

bottom man on shaft and raise work; Nipper; Nozzleman on slick line; Sandblaster - potman, Robotic Shotcrete Placer, Segment Erector, Tunnel Muck Hauler, Steel Form raiser and setter; Timberman, retimberman (wood or steel or substitute materials therefore); Tugger (for tunnel laborer work); Cable tender; Chuck tender; Powderman - primer house

GROUP 4: Vibrator operator, pavement breaker; Bull gang - muckers, trackmen; Concrete crew - includes rodding and spreading, Dumpmen (any method)

GROUP 5: Grout crew; Reboundman; Swamper/ Brakeman

LABO0324-010 07/01/2018

SOLANO AND SONOMA COUNTIES

	Rates	Fringes
LABORER		
Mason Tender-Brick.....	\$ 31.45	22.20

LABO0324-013 06/25/2018

NAPA, SOLANO, AND SONOMA COUNTIES

	Rates	Fringes
LABORER (CONSTRUCTION CRAFT LABORERS - AREA B:)		
Construction Specialist		
Group.....	\$ 30.49	23.20
GROUP 1.....	\$ 29.79	23.20
GROUP 1-a.....	\$ 30.01	23.20
GROUP 1-c.....	\$ 29.84	23.20
GROUP 1-e.....	\$ 30.34	23.20
GROUP 1-f.....	\$ 29.37	23.20
GROUP 2.....	\$ 29.64	23.20
GROUP 3.....	\$ 29.54	23.20
GROUP 4.....	\$ 23.23	23.20

See groups 1-b and 1-d under laborer classifications.

LABORER (GARDENERS,
HORTICULTURAL & LANDSCAPE
LABORERS - AREA B:)

(1) New Construction.....	\$ 29.54	23.20
(2) Establishment Warranty Period.....	\$ 23.23	23.20

LABORER (GUNITE - AREA B:)

GROUP 1.....	\$ 29.75	22.31
GROUP 2.....	\$ 29.25	22.31
GROUP 3.....	\$ 28.66	22.31
GROUP 4.....	\$ 28.54	22.31

LABORER (WRECKING - AREA B:)

GROUP 1.....	\$ 29.79	23.20
GROUP 2.....	\$ 29.64	23.20

FOOTNOTES:

Laborers working off or with or from bos'n chairs, swinging scaffolds, belts shall receive \$0.25 per hour above the applicable wage rate. This shall not apply to workers entitled to receive the wage rate set forth in Group 1-a below.

LABORER CLASSIFICATIONS

CONSTRUCTION SPECIALIST GROUP: Asphalt ironer and raker; Chainsaw; Laser beam in connection with laborers' work; Cast-in-place manhole form setter; Pressure pipelayer; Davis trencher - 300 or similar type (and all small trenchers); Blaster; Diamond driller; Multiple unit drill; Hydraulic drill

GROUP 1: Asphalt spreader boxes (all types); Barko, Wacker and similar type tampers; Buggymobile; Caulker, bander, pipewrapper, conduit layer, plastic pipelayer; Certified hazardous waste worker including Leade Abatement; Compactors of all types; Concrete and magnesite mixer, 1/2 yd. and under; Concrete pan work; Concrete sander; Concrete saw; Cribber and/or shoring; Cut granite curb setter; Dri-pak-it machine; Faller, logloader and bucket; Form raiser, slip forms; Green cutter; Headerboard, Hubsetter, aligner, by any method; High pressure blow pipe (1-1/2" or over, 100 lbs. pressure/over); Hydro seeder and similar type; Jackhammer operator; Jacking of pipe over 12 inches; Jackson and similar type compactor; Kettle tender, pot and worker applying asphalt, lay-kold, creosote, lime, caustic and similar type materials (applying means applying, dipping or handling of such materials); Lagging, sheeting, whaling, bracing, trenchjacking, lagging hammer; Magnesite, epoxyresin, fiberglass, mastic worker (wet or dry); No joint pipe and stripping of same, including repair of voids; Pavement breaker and spader, including tool grinder; Perma curb; Pipelayer (including grade checking in connection with pipelaying); Precast-manhole setter; Pressure pipe tester; Post hole digger, air, gas and electric; Power broom sweeper; Power tampers of all types (except as shown in Group 2); Ram set gun and stud gun; Riprap stonepaver and rock-slinger, including placing of sacked concrete and/or sand (wet or dry) and gabions and similar type; Rotary scarifier or multiple head concrete chipping scarifier; Roto and Ditch Witch; Rototiller; Sandblaster, pot, gun, nozzle operators; Signalling and rigging; Tank cleaner; Tree climber; Turbo blaster; Vibrascreed, bull float in connection with laborers' work; Vibrator; Hazardous waste worker (lead removal); Asbestos and mold removal worker

GROUP 1-a: Joy drill model TWM-2A; Gardner-Denver model DH143 and similar type drills; Track driller; Jack leg driller; Wagon driller; Mechanical drillers, all types regardless of type or method of power; Mechanical pipe layers, all types regardless of type or method of power; Blaster and powder; All work of loading, placing and blasting of all powder and explosives of whatever type regardless of method used for such loading and placing; High scalers (including drilling of same); Tree toppler; Bit grinder

GROUP 1-b: Sewer cleaners shall receive \$4.00 per day above Group 1 wage rates. "Sewer cleaner" means any worker who handles or comes in contact with raw sewage in small diameter sewers. Those who work inside recently active, large diameter sewers, and all recently active sewer manholes shall receive \$5.00 per day above Group 1 wage rates.

GROUP 1-c: Burning and welding in connection with laborers'

work; Synthetic thermoplastics and similar type welding

GROUP 1-d: Maintenance and repair track and road beds. All employees performing work covered herein shall receive \$.25 per hour above their regular rate for all work performed on underground structures not specifically covered herein. This paragraph shall not be construed to apply to work below ground level in open cut. It shall apply to cut and cover work of subway construction after the temporary cover has been placed.

GROUP 1-e: Work on and/or in bell hole footings and shafts thereof, and work on and in deep footings. (A deep footing is a hole 15 feet or more in depth.) In the event the depth of the footing is unknown at the commencement of excavation, and the final depth exceeds 15 feet, the deep footing wage rate would apply to all employees for each and every day worked on or in the excavation of the footing from the date of inception.

GROUP 1-f: Wire winding machine in connection with guniting or shot crete

GROUP 2: Asphalt shoveler; Cement dumper and handling dry cement or gypsum; Choke-setter and rigger (clearing work); Concrete bucket dumper and chute; Concrete chipping and grinding; Concrete laborer (wet or dry); Driller tender, chuck tender, nipper; Guinea chaser (stake), grout crew; High pressure nozzle, adductor; Hydraulic monitor (over 100 lbs. pressure); Loading and unloading, carrying and hauling of all rods and materials for use in reinforcing concrete construction; Pittsburgh chipper and similar type brush shredders; Sloper; Single foot, hand-held, pneumatic tamper; All pneumatic, air, gas and electric tools not listed in Groups 1 through 1-f; Jacking of pipe - under 12 inches

GROUP 3: Construction laborers, including bridge and general laborer; Dump, load spotter; Flag person; Fire watcher; Fence erector; Guardrail erector; Gardener, horticultural and landscape laborer; Jetting; Limber, brush loader and piler; Pavement marker (button setter); Maintenance, repair track and road beds; Streetcar and railroad construction track laborer; Temporary air and water lines, Victaulic or similar; Tool room attendant (jobsite only)

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- A: at demolition site for the salvage of the material.
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- C: for the cleaning of salvage material at the jobsite or temporary jobsite yard.

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GROUP 1: Structural Nozzleman

GROUP 2: Nozzleman, Gunman, Potman, Groundman

GROUP 3: Reboundman

GROUP 4: Gunite laborer

WRECKING WORK LABORER CLASSIFICATIONS

GROUP 1: Skilled wrecker (removing and salvaging of sash, windows and materials)

GROUP 2: Semi-skilled wrecker (salvaging of other building materials)

LABO0324-019 07/01/2018

	Rates	Fringes
Plasterer tender.....	\$ 32.02	23.00

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

PAIN0016-004 01/01/2019

MARIN, NAPA, SOLANO & SONOMA COUNTIES

	Rates	Fringes
Painters:.....	\$ 42.67	24.03

PREMIUMS:

EXOTIC MATERIALS - \$0.75 additional per hour.

SPRAY WORK: - \$0.50 additional per hour.

INDUSTRIAL PAINTING - \$0.25 additional per hour

[Work on industrial buildings used for the manufacture and processing of goods for sale or service; steel construction (bridges), stacks, towers, tanks, and similar structures]

HIGH WORK:

over 50 feet - \$2.00 per hour additional

100 to 180 feet - \$4.00 per hour additional

Over 180 feet - \$6.00 per hour additional

PAIN0016-005 06/01/2020

ALPINE, BUTTE, COLUSA, EL DORADO (west of the Sierra Nevada Mountains), GLENN, LASSEN (west of Hwy. 395, excluding Honey Lake); MARIN, MODOC, NAPA, NEVADA (west of the Sierra Nevada Mountains), PLACER (west of the Sierra Nevada Mountains), PLUMAS, SACRAMENTO, SHASTA, SIERRA (west of the Sierra Nevada Mountains), SISKIYOU, SOLANO, SONOMA, SUTTER, TEHAMA, TRINITY, YOLO AND YUBA COUNTIES

	Rates	Fringes
DRYWALL FINISHER/TAPER.....	\$ 47.38	25.99

PAIN0016-007 01/01/2019

ALPINE, AMADOR, BUTTE, COLUSA. EL DORADO (west of the Sierra Nevada Mountains), GLENN, LASSEN (west of Highway 395, excluding Honey Lake), MODOC, NEVADA (west of the Sierra Nevada Mountains), PLACER (west of the Sierra Nevada Mountains), PLUMAS, SACRAMENTO, SHASTA, SIERRA (west of the Sierra Nevada Mountains), SISKIYOU, SUTTER, TEHAMA, TRINITY, YOLO & YUBA COUNTIES

	Rates	Fringes
Painters:.....	\$ 33.68	20.24

SPRAY/SANDBLAST: \$0.50 additional per hour.

EXOTIC MATERIALS: \$1.00 additional per hour.

HIGH TIME: Over 50 ft above ground or water level \$2.00 additional per hour. 100 to 180 ft above ground or water level \$4.00 additional per hour. Over 180 ft above ground or water level \$6.00 additional per hour.

PAIN0016-008 01/01/2019

MARIN, NAPA, SOLANO AND SONOMA COUNTIES

	Rates	Fringes
SOFT FLOOR LAYER.....	\$ 48.60	27.43

PAIN0169-004 07/01/2020

MARIN , NAPA & SONOMA COUNTIES; SOLANO COUNTY (west of a line defined as follows: Hwy. 80 corridor beginning at the City of Fairfield, including Travis Air Force Base and Suisun City; going north of Manakas Corner Rd., continue north on Suisun Valley Rd. to the Napa County line; Hwy. 80 corridor south on Grizzly Island Rd. to the Grizzly Island Management area)

	Rates	Fringes
GLAZIER.....	\$ 52.17	30.55

* PAIN0567-001 07/01/2020

EL DORADO COUNTY (east of the Sierra Nevada Mountains); LASSEN COUNTY (east of Highway 395, beginning at Stacey and including Honey Lake); NEVADA COUNTY (east of the Sierra Nevada Mountains); PLACER COUNTY (east of the Sierra Nevada Mountains); AND SIERRA COUNTY (east of the Sierra Nevada Mountains)

	Rates	Fringes
Painters:		
Brush and Roller.....	\$ 29.80	13.44
Spray Painter & Paperhanger.	\$ 31.29	13.44

PREMIUMS:

Special Coatings (Brush), and Sandblasting = \$0.50/hr

Special Coatings (Spray), and Steeplejack = \$1.00/hr

Special Coating Spray Steel = \$1.25/hr

Swing Stage = \$2.00/hr

*A special coating is a coating that requires the mixing of 2 or more products.

 PAIN0567-007 07/01/2020

EL DORADO COUNTY (east of the Sierra Nevada Mountains); LASSEN COUNTY (east of Highway 395, beginning at Stacey and including Honey Lake); NEVADA COUNTY (east of the Sierra Nevada Mountains); PLACER COUNTY (east of the Sierra Nevada Mountains) AND SIERRA COUNTY (east of the Sierra Nevada Mountains)

	Rates	Fringes
SOFT FLOOR LAYER.....	\$ 31.01	15.48

 PAIN0567-010 07/01/2020

EL DORADO COUNTY (east of the Sierra Nevada Mountains); LASSEN COUNTY (east of Highway 395, beginning at Stacey and including Honey Lake); NEVADA COUNTY (east of the Sierra Nevada Mountains); PLACER COUNTY (east of the Sierra Nevada Mountains); AND SIERRA COUNTY (east of the Sierra Nevada Mountains)

	Rates	Fringes
Drywall		
(1) Taper.....	\$ 35.20	14.02
(2) Steeplejack - Taper, over 40 ft with open space below.....	\$ 36.70	14.02

 PAIN0767-004 07/01/2020

ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SISKIYOU, SOLANO (Remainder), SUTTER, TEHAMA, TRINITY, YOLO, YUBA

	Rates	Fringes
GLAZIER.....	\$ 40.61	30.76

PAID HOLIDAYS: New Year's Day, Martin Luther King, Jr. Day, President's Day, Memorial Day, Independence Day, Labor Day, Veteran's Day, Thanksgiving Day, and Christmas Day.

Employee required to wear a body harness shall receive \$1.50 per hour above the basic hourly rate at any elevation.

 PAIN1176-001 07/01/2020

HIGHWAY IMPROVEMENT

	Rates	Fringes
Parking Lot Striping/Highway Marking:		
GROUP 1.....	\$ 38.48	16.88
GROUP 2.....	\$ 32.71	16.88

GROUP 3.....\$ 33.09 16.88

CLASSIFICATIONS

GROUP 1: Striper: Layout and application of painted traffic stripes and marking; hot thermo plastic; tape, traffic stripes and markings

GROUP 2: Gamecourt & Playground Installer

GROUP 3: Protective Coating, Pavement Sealing

PAIN1237-001 06/01/2020

ALPINE; COLUSA; EL DORADO (west of the Sierra Nevada Mountains); GLENN; LASSEN (west of Highway 395, beginning at Stacey and including Honey Lake); MODOC; NEVADA (west of the Sierra Nevada Mountains); PLACER (west of the Sierra Nevada Mountains); PLUMAS; SACRAMENTO; SHASTA; SIERRA (west of the Sierra Nevada Mountains); SISKIYOU; SUTTER; TEHAMA; TRINITY; YOLO AND YUBA COUNTIES

	Rates	Fringes
SOFT FLOOR LAYER.....	\$ 39.61	22.59

PLAS0300-003 07/01/2018

	Rates	Fringes
PLASTERER		
AREA 295: Alpine, Amador, Butte, Colusa, El Dorado, Glenn, Lassen, Modoc, Nevada, Placer, Plumas, Sacramento, Shasta, Sierra, Siskiyou, Solano, Sutter, Tehema, Trinity, Yolo & Yuba Counties.....	\$ 32.70	31.68
AREA 355: Marin.....	\$ 36.73	31.68
AREA 355: Napa & Sonoma Counties.....	\$ 32.70	31.68

PLAS0300-005 07/01/2017

	Rates	Fringes
CEMENT MASON/CONCRETE FINISHER...	\$ 33.49	23.67

PLUM0038-002 07/01/2020

MARIN AND SONOMA COUNTIES

	Rates	Fringes
PLUMBER (Plumber, Steamfitter, Refrigeration Fitter)		
(1) Work on wooden frame structures 5 stories or less excluding high-rise buildings and commercial work such as hospitals,		

prisons, hotels, schools,
casinos, wastewater
treatment plants, and
research facilities as well
as refrigeration
pipefitting, service and
repair work - MARKET
RECOVERY RATE.....\$ 64.86 43.54
(2) All other work - NEW
CONSTRUCTION RATE.....\$ 76.30 45.27

PLUM0038-006 07/01/2019

MARIN & SONOMA COUNTIES

	Rates	Fringes
Landscape/Irrigation Fitter (Underground/Utility Fitter).....	\$ 63.04	31.48

PLUM0228-001 01/01/2021

BUTTE, COLUSA, GLENN, LASSEN, MODOC, PLUMAS, SHASTA, SIERRA,
SISKIYOU, SUTTER, TEHAMA, TRINITY & YUBA COUNTIES

	Rates	Fringes
PLUMBER.....	\$ 42.00	35.14

PLUM0343-001 07/01/2020

NAPA AND SOLANO COUNTIES

	Rates	Fringes
PLUMBER/PIPEFITTER		
Light Commercial.....	\$ 30.85	20.40
All Other Work.....	\$ 54.00	38.74

DEFINITION OF LIGHT COMMERCIAL:

Work shall include strip shopping centers, office buildings, schools and other commercial structures which the total plumbing bid does not exceed Two Hundred and Fifty Thousand (\$250,000) and the total heating and cooling does not exceed Two Hundred Fifty Thousand (\$250,000); or Any projects bid in phases shall not qualify unless the total project is less than Two Hundred Fifty Thousand (\$250,000) for the plumbing bid; and Two Hundred Fifty Thousand (\$250,000) for the heating and cooling bid. Excluded are hospitals, jails, institutions and industrial projects, regardless size of the project

FOOTNOTES: While fitting galvanized material: \$.75 per hour additional. Work from trusses, temporary staging, unguarded structures 35' from the ground or water: \$.75 per hour additional. Work from swinging scaffolds, boatswains chairs or similar devices: \$.75 per hour additional.

PLUM0350-001 08/01/2019

EL DORADO COUNTY (Lake Tahoe area only); NEVADA COUNTY (Lake Tahoe area only); AND PLACER COUNTY (Lake Tahoe area only)

	Rates	Fringes
PLUMBER/PIPEFITTER.....	\$ 45.84	13.81

 PLUM0355-001 07/01/2020

ALPINE, AMADOR, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC,
 NAPA, NEVADA, PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA,
 SISKIYOU, SOLANO, SUTTER, TEHAMA, TRINITY, YOLO, AND YUBA
 COUNTIES

	Rates	Fringes
Underground Utility Worker /Landscape Fitter.....	\$ 29.90	16.30

 PLUM0442-003 07/01/2020

AMADOR (South of San Joaquin River) and ALPINE COUNTIES

	Rates	Fringes
PLUMBER.....	\$ 45.50	31.89

 PLUM0447-001 07/01/2020

AMADOR (north of San Joaquin River), EL DORADO (excluding Lake
 Tahoe area), NEVADA (excluding Lake Tahoe area); PLACER
 (excluding Lake Tahoe area), SACRAMENTO AND YOLO COUNTIES

	Rates	Fringes
PLUMBER/PIPEFITTER		
Journeyman.....	\$ 54.37	25.75
Light Commercial Work.....	\$ 36.23	17.72

 ROOF0081-006 08/01/2019

MARIN, NAPA, SOLANO AND SONOMA COUNTIES

	Rates	Fringes
Rofer.....	\$ 40.10	18.88

 ROOF0081-007 08/01/2020

ALPINE, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC, NEVADA,
 PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SISKIYOU, SUTTER,
 TEHAMA, TRINITY, YOLO, AND YUBA COUNTIES

	Rates	Fringes
Rofer.....	\$ 39.73	19.11

 SFCA0483-003 07/29/2019

MARIN, NAPA, SOLANO AND SONOMA COUNTIES

	Rates	Fringes
SPRINKLER FITTER (Fire		

Sprinklers).....\$ 65.52 32.67

SFCA0669-003 01/01/2021

ALPINE, BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC, NEVADA,
PLACER, PLUMAS, SACRAMENTO, SHASTA, SIERRA, SISKIYOU, SUTTER,
TEHAMA, TRINITY, YOLO AND YUBA COUNTIES

Rates Fringes

SPRINKLER FITTER.....\$ 40.87 26.29

SHEE0104-006 06/29/2020

MARIN, NAPA, SOLANO SONOMA & TRINITY COUNTIES

Rates Fringes

Sheet Metal Worker

Mechanical Contracts

\$200,000 or less.....\$ 55.92 45.29

All other work.....\$ 64.06 46.83

SHEE0104-009 07/01/2020

AMADOR, COLUSA, EL DORADO, NEVADA, PLACER, SACRAMENTO, SUTTER,
YOLO AND YUBA COUNTIES

Rates Fringes

SHEET METAL WORKER.....\$ 46.60 40.21

SHEE0104-010 07/01/2020

ALPINE COUNTY

Rates Fringes

SHEET METAL WORKER.....\$ 43.50 37.42

SHEE0104-011 07/01/2020

BUTTE, COLUSA, EL DORADO, GLENN, LASSEN, MODOC, NEVADA, PLACER,
PLUMAS, SACRAMENTO, SHASTA, SIERRA, SISKIYOU, SUTTER, TEHAMA,
YOLO AND YUBA COUNTIES

Rates Fringes

Sheet Metal Worker (Metal
decking and siding only).....\$ 44.45 35.55

SHEE0104-014 07/01/2020

MARIN, NAPA, SOLANO, SONOMA AND TRINITY COUNTIES

Rates Fringes

SHEET METAL WORKER (Metal
Decking and Siding only).....\$ 44.45 35.55

SHEE0104-019 07/01/2020

BUTTE, GLENN, LASSEN, MODOC, PLUMAS, SHASTA, SIERRA, SISKIYOU
AND TEHAMA COUNTIES

	Rates	Fringes
SHEET METAL WORKER		
Mechanical Jobs \$200,000 & under.....	\$ 35.16	35.88
Mechanical Jobs over \$200,000.....	\$ 46.60	40.21

TEAM0094-001 07/01/2018		

	Rates	Fringes
Truck drivers:		
GROUP 1.....	\$ 31.68	27.86
GROUP 2.....	\$ 31.98	27.86
GROUP 3.....	\$ 32.28	27.86
GROUP 4.....	\$ 32.63	27.86
GROUP 5.....	\$ 32.98	27.86

FOOTNOTES:

Articulated dump truck; Bulk cement spreader (with or without auger); Dumpcrete truck; Skid truck (debris box); Dry pre-batch concrete mix trucks; Dumpster or similar type; Slurry truck: Use dump truck yardage rate.
Heater planer; Asphalt burner; Scarifier burner; Industrial lift truck (mechanical tailgate); Utility and clean-up truck: Use appropriate rate for the power unit or the equipment utilized.

TRUCK DRIVER CLASSIFICATIONS

GROUP 1: Dump trucks, under 6 yds.; Single unit flat rack (2-axle unit); Nipper truck (when flat rack truck is used appropriate flat rack shall apply); Concrete pump truck (when flat rack truck is used appropriate flat rack shall apply); Concrete pump machine; Fork lift and lift jitneys; Fuel and/or grease truck driver or fuel person; Snow buggy; Steam cleaning; Bus or personhaul driver; Escort or pilot car driver; Pickup truck; Teamster oiler/greaser and/or serviceperson; Hook tender (including loading and unloading); Team driver; Tool room attendant (refineries)

GROUP 2: Dump trucks, 6 yds. and under 8 yds.; Transit mixers, through 10 yds.; Water trucks, under 7,000 gals.; Jetting trucks, under 7,000 gals.; Single-unit flat rack (3-axle unit); Highbed heavy duty transport; Scissor truck; Rubber-tired muck car (not self-loaded); Rubber-tired truck jumbo; Winch truck and "A" frame drivers; Combination winch truck with hoist; Road oil truck or bootperson; Buggymobile; Ross, Hyster and similar straddle carriers; Small rubber-tired tractor

GROUP 3: Dump trucks, 8 yds. and including 24 yds.; Transit mixers, over 10 yds.; Water trucks, 7,000 gals. and over; Jetting trucks, 7,000 gals. and over; Vacuum trucks under 7500 gals. Trucks towing tilt bed or flat bed pull trailers; Lowbed heavy duty transport; Heavy duty transport tiller person; Self-propelled street sweeper with self-contained refuse bin; Boom truck - hydro-lift or Swedish type extension or retracting crane; P.B. or similar

type self-loading truck; Tire repairperson; Combination bootperson and road oiler; Dry distribution truck (A bootperson when employed on such equipment, shall receive the rate specified for the classification of road oil trucks or bootperson); Ammonia nitrate distributor, driver and mixer; Snow Go and/or plow

GROUP 4: Dump trucks, over 25 yds. and under 65 yds.; Water pulls - DW 10's, 20's, 21's and other similar equipment when pulling Aqua/pak or water tank trailers; Helicopter pilots (when transporting men and materials); Lowbedk Heavy Duty Transport up to including 7 axles; DW10's, 20's, 21's and other similar Cat type, Terra Cobra, LeTourneau Pulls, Tournorocker, Euclid and similar type equipment when pulling fuel and/or grease tank trailers or other miscellaneous trailers; Vacuum Trucks 7500 gals and over and truck repairman

GROUP 5: Dump trucks, 65 yds. and over; Holland hauler; Low bed Heavy Duty Transport over 7 axles

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 www.dol.gov/whd/govcontracts.

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) (ii)).

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.

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 Regional Office for the area in which the survey was conducted because those Regional Offices have 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"

Meeting: Pre-Bid Meeting

Date: February 2, 2021

Project No.: 2630.05

	Attendee Name	Company	Address	Phone	Email
1	JA. ANDREWS	Valentine Corp	111 Pelican Way San Rafael	415 433 732	jandrews@valentincorp.com
2	Robert E. Lee	Team Ghilotti	2531 Petaluma Blvd S. Petaluma	715-720-2044	RobertL@TeamGhilotti.com
3	Rafael Robello	Sandstone Environmental	P.O. Box 1049 Oakley Ca	510 435 0787	Sandstone.env@gmail.com
4	Scott McCluskey	McCluskey Engineering	Box 2830 Santa Rosa, Ca	707 331-8399	McCluskey024@gmail.com
5	Tony Perez	W.R. Forde	984 Hensley St. Richmond CA 94801	510 215 9338	bids@wrforde.net
6	JAMIS PIAZZA	PIAZZA	PO BOX 573, PLEASANTON 94551	707 484-1614	piazzajr@gmail.com
7	CONNOR HIGGINS	PACIFIC INFRA-STRUCTURE	435 BOULDER CT. STE 200 PLEASANTON, CA 94566	925-249-0011	ESTIMATING@PAC-INFRA.COM
8	CHRIS KAUNY	AZUL WORKS	1400 EGBERT AVE, S.F. CA 94124	415-235-0041	ESTIMATING@AZULWORKS.COM
9					
10					
11					
12					
13					
14					
15					

BID TABULATION | Inverness Public Utility District | Tenney Tank Site Water Tank Replacements | Bid opening: February 17, 2021 - 2:00PM

Item No	Item Description	Estimated Quantity	Valentine Corporation		WR Forde Associates, Inc.		Team Ghilotti, Inc.		Azul Works, Inc.		Piazza Construction	
			Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price	Unit Price	Total Price
1	Demolition	1	\$100,000.00	\$100,000.00	\$60,000.00	\$60,000.00	\$25,777.00	\$25,777.00	\$60,000.00	\$60,000.00	\$40,030.00	\$40,030.00
2	Site Development	1	\$40,000.00	\$40,000.00	\$125,000.00	\$125,000.00	\$47,500.00	\$47,500.00	\$59,500.00	\$59,500.00	\$30,555.00	\$30,555.00
3	Over Excavation	20	\$230.00	\$4,600.00	\$100.00	\$2,000.00	\$215.00	\$4,300.00	\$220.00	\$4,400.00	\$50.00	\$1,000.00
4	Tank Foundation Concrete	57	\$1,145.00	\$65,265.00	\$1,500.00	\$85,500.00	\$1,685.00	\$96,045.00	\$1,930.00	\$110,010.00	\$1,057.00	\$60,249.00
5	Tank Foundation Reinforcement Steel	3800	\$3.25	\$12,350.00	\$2.80	\$10,640.00	\$2.20	\$8,360.00	\$4.30	\$16,340.00	\$2.35	\$8,930.00
6	Thermoset Powder Coated Bolted Steel Tank 1	1	\$135,000.00	\$135,000.00	\$125,000.00	\$125,000.00	\$92,986.00	\$92,986.00	\$123,500.00	\$123,500.00	\$105,686.00	\$105,686.00
7	Thermoset Powder Coated Bolted Steel Tank 2	1	\$125,354.00	\$125,354.00	\$110,000.00	\$110,000.00	\$82,986.00	\$82,986.00	\$138,000.00	\$138,000.00	\$93,766.00	\$93,766.00
8	Piping and Appurtenances	1	\$153,000.00	\$153,000.00	\$250,000.00	\$250,000.00	\$193,187.00	\$193,187.00	\$273,000.00	\$273,000.00	\$150,247.00	\$150,247.00
9	Shed	1	\$16,400.00	\$16,400.00	\$12,000.00	\$12,000.00	\$27,000.00	\$27,000.00	\$15,500.00	\$15,500.00	\$14,460.00	\$14,460.00
10	Underground Electrical Conduits	1	\$8,400.00	\$8,400.00	\$4,000.00	\$4,000.00	\$9,000.00	\$9,000.00	\$18,500.00	\$18,500.00	\$7,450.00	\$7,450.00
Base Bid Total				\$660,369.00		\$784,140.00		\$587,141.00		\$818,750.00		\$512,373.00
A1	Passive Cathodic Protection System	1		\$28,000.00	\$32,000.00	\$32,000.00	\$27,000.00	\$27,000.00	\$28,000.00	\$28,000.00	\$27,115.00	\$27,115.00
Base Bid Total plus Additive A1				\$688,369.00		\$816,140.00		\$614,141.00		\$846,750.00		\$539,488.00

BIDDER'S CHECK LIST

Did You:

- Include with your bid properly completed, accurate copies of the following documents in the following order using the forms included in the bid package:
- Bidder's check list (Page D-6)?
- Completed and Executed Proposal that states the bid as intended (Pages D-1 through D-5)?
- Executed bid bond?
- Bidders List as required by DBE Requirements (See page C-6)?
- Certification Regarding Lobbying (Page C-15)?
- Signed and notarized non-collusion affidavit (Page D-7)?
- DBE "Good Faith Efforts". To be submitted with bid prior to bid opening or within 5 working days following bid opening?
- Submitted the complete bid package, including the completed documents in the checklist above?
- Arrange to have the sealed bid delivered to the offices of Brelje and Race Consulting Engineers at 475 Aviation Blvd., Suite 120, Santa Rosa, California, 95403, on or before the time specified for bid opening in the notice inviting bids?



CONSTRUCTION

General Engineering Contractor

Lic. No. 406456 • P.O. Box 573 • Penngrove • CA 94951 • (707) 876-3410

February 17, 2021

Tenney Tank Site Water Tank Replacements – Bidders List, per sheet C-6

1. Firm name
2. Contact person
3. Mailing address
4. Phone number
5. Email address
6. Emailed bid and date
7. DBE status

Superior Tank Company
Lewis Marquez
19436 Colombo Street, Bakersfield, CA 93308
661-392-0188
lewis.marquez@superiortank.com
Email, 2/15/2021
MBE – 3JS00005

West Coast Reinforcing
George Marinkovich
3500 Holly Oak Way, Santa Rosa, CA 95404
707-479-9019
george@westcoastreinforcing.com
Email, 2/17/2021
Non-DBE

Coastal Mountain Electric
Bryan Mann
PO Box 678, Lower Lake, CA 9542
707-459-3262
bryancoastalme@gmail.com
Email, 2/17/2021
Non-DBE

Fowler Electric
Tom Fowler
44 Sprauer Road, Petaluma, CA 94952
707-658-1491
tlfowler@comcast.net
Email, 2/17/2021
Non-DBE

Pace Supply Corp
Jason Covella
3033 Dutton Ave, Santa Rosa, CA 95407
707-545-7101
jcovella@pacesupply.com
Email, 2/17/2021
Non-DBE

Corrpro Waterworks
Juan Carlos R. Mendoza
645 W. 24th Street, Ste 102, Temp, AZ 85282
602-269-7641
JMendoza@aegion.com
Email, 2/16/2021
Non-DBE



CONSTRUCTION

General Engineering Contractor

Lic. No. 406456 • P.O. Box 573 • Penngrove • CA 94951 • (707) 876-3410

Nitta Erosion Control

Scott K. Nitta

3778 Del Mar Ave., Loomis, CA 95650

916-652-7459

nittaec@gmail.com

Email, 2/15/2021

DBE

Tuff Shed

Richard Koch

5925 Redwood Dr Ste A, Rohnert Park, CA 94928

707-586-8833

rkoch@tuffshed.com

Email, 2/14/2021

Non-DBE

California Pipe Fabricators

Mitch Stetson

7277 Chevron Way, Dixon, CA 95620

707-678-3069

stensonm@calpipefab.com

Email, 2/16/2021

Non-DBE

SECTION "D"

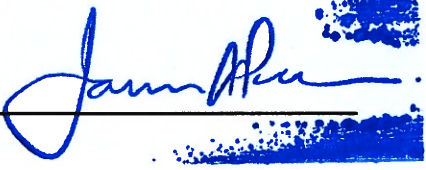
PROPOSAL

TENNEY TANK SITE WATER TANK REPLACEMENTS
 INVERNESS PUBLIC UTILITY DISTRICT

The undersigned, as Bidder, declares that he has thoroughly examined all the Contract Documents herein contained, and he proposes and agrees, if this Proposal is accepted, that he will contract with Inverness Public Utility District in the form of the copy of the Articles of Agreement herein contained and deposited in the offices of the Owner to provide all the necessary machinery, tools, apparatus and other means of construction to: furnish all materials; provide superintendence, overhead expenses and all labor and expenses of whatever nature necessary; complete the Tenney Tank Site Water Tank Replacements project, in conformance with the Drawings, these Specifications, and other contract provisions herein or reasonably implied thereby or as necessary to complete the work in the manner and within the time named herein and according to the requirements and to the reasonable satisfaction of the Owner; pay all charges of freight, transportation and hauling; to indemnify the Owner against any loss or damage arising from any act of the undersigned as Contractor; and take in full payment therefor the following sums, to wit:

Item No.	Description	Est. Quantity	Unit	Unit Price	Total Item Price
1	Demolition, Complete as Specified	1	LS	40,030.-	40,030.-
2	Site Development, Complete as Specified	1	LS	30,555.-	30,555.-
3	Over Excavation, Complete as Specified	20	CY	50.-	1,000.-
4	Tank Foundation Concrete, Complete as Specified	57	CY	1,057.-	60,249.-
5	Tank Foundation Reinforcement Steel, Complete as Specified	3,800	LBS	2.35	8,930.-
6	Thermoset Powder Coated Bolted Steel Tank 1, Complete as Specified	1	LS	105,686.-	105,686.-
7	Thermoset Powder Coated Bolted Steel Tank 2, Complete as Specified	1	LS	93,766.-	93,766.-
8	Piping and Appurtenances, Complete as Specified	1	LS	150,247.-	150,247.-
9	Shed, Complete as Specified	1	LS	14,460.-	14,460.-
10	Underground Electrical Conduits, Complete as Specified	1	LS	7,450.-	7,450.-
TOTAL BASE BID (ITEMS 1-10)					512,373.-
A1	Passive Cathodic Protection System, Complete as Specified	1	LS	27,115.-	27,115.-
TOTAL BASE BID (ITEMS 1-10) PLUS ADDITIVE A1					539,488.-

Basis of Contract Award shall be the total of Bid Items 1 through 10.

I acknowledge I have received Addendum No. 1, signed: 

I acknowledge I have received Addendum No. _____, signed: _____

I acknowledge I have received Addendum No. _____, signed: _____

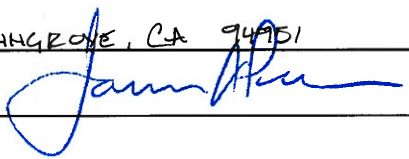
We, the undersigned, agree if this Proposal is accepted by the Owner and if a Contract for the performance of the work is entered into by and between the Owner and the undersigned, to so plan the work and to prosecute it with such diligence that the work, and all of the work, shall be completed in the time required by the Contract Documents.

We, the undersigned, further agree, if this Proposal shall be accepted by the Owner, to sign the Articles of Agreement and to furnish the required Bonds with satisfactory Surety or Sureties within ten (10) calendar days from date of mailing of written notice of award from the Owner.

Accompanying this Bid is a Bid security (Bid Bond, certified check or cashier's check) for an amount equal to at least ten percent (10%) of the total amount of the Proposal.

WITNESS OUR HANDS this 17TH day of FEBRUARY, 2021.

SIGNATURE OF BIDDER OR BIDDERS, WITH BUSINESS ADDRESS:

P.O. Box 573
PENNGROVE, CA 94751


The undersigned and his Subcontractors are licensed in accordance with the laws of the State of California and hold the necessary licenses to perform all work required by the Contract Documents.

License No.: 406456 License Class: A DIR Registration No. : 1000008021

Individual Contractor: Name: PIAZZA CONSTRUCTION

Address: P.O. Box 573

PENNGROVE, CA 94951

Signature: 

Partnership: Name: _____

Business Address: _____

By: _____

Other Partners: _____

Corporation: Name: _____

Business Address _____

By: _____

Title: _____

Organized under the laws of the State of _____.

LIST OF PROPOSED SUBCONTRACTORS

The Bidder shall here give a list of proposed subcontractors. The information presented below must embrace the names and addresses of all subcontractors and a description of the work to be performed by each. Attach additional sheets if necessary.

SUPERIOR TANK CO., INC.
Subcontractor
 19436 COLONBO ST.
BAKERSFIELD, CA 93308
Address

472119
License Number

BOLTED TANKS
Description of Work

100001847
DIR Registration Number

CORPRO
Subcontractor
 645 W. 24TH, STE 102
TEMPE, AZ 85282
Address

764878
License Number

CATHODIC PROTECTION
Description of Work

1000002963
DIR Registration Number

WEST COAST REINFORCING
Subcontractor
 3500 HOLLY OAK WAY
SANTA ROSA, CA 95404
Address

859902
License Number

REBAR
Description of Work

1000021087
DIR Registration Number

FOWLER ELECTRIC
Subcontractor
 44 SPRAYER ROAD
PETALUMA, CA 94952
Address

632186
License Number

ELECTRICAL
Description of Work

1000023124
DIR Registration Number



Lic. No. 406456 • P.O. Box 573 • Penngrove • CA 94951 • (707) 876-3410

Project History List

- 1. Agency/Client:** Yulupa Mutual Water Company
Contact Person: Warren Fox
Title: operations manager
Phone: 707-217-3218
Email: warren_fox@sbcglobal.net
Project Title: Upper Storage Tank Replacement
Project Location: Santa Rosa
Work Performed: as Prime
Contract Amount: \$582,260.00
Scheduled Completion Date: July 2020
Completion Date: in progress
- 2. Agency/Client:** Palomino Lakes Mutual Water District
Contact Person: John Locey
Title: Project Engineer
Phone: 707-576-1322
Email: locey@brce.com
Project Title: Storage Tank No.2, Tank Site 2
Project Location: Cloverdale
Work Performed: as Prime
Contract Amount: \$192,562.00
Scheduled Completion Date: March 2020
Completion Date: March 2020
- 3. Agency/Client:** City of Healdsburg
Contact Person: Patrick Fuss
Title: Utility Engineering manager
Phone: 707-217-3218
Email: pfuss@ci.healdsburg.ca.us
Project Title: Sunset Drive Reservoir Replacement Project
Project Location: Healdsburg
Work Performed: as Prime
Contract Amount: \$959,365.00
Scheduled Completion Date: November 2019
Completion Date: November 2019



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4. **Agency/Client:** California Department of Transportation
Contact Person: Jonathan Chi
Title: Resident Engineer
Phone: 707-566-3950
Email: jonathan.chi@dot.ca.gov
Project Title: Emergency Storm Damage at Hwy 1, postmile 31.9
Project Location: Fort Ross
Work Performed: as Prime
Contract Amount: Force Account
Scheduled Completion Date: TBD
Completion Date: August 2017

5. **Agency/Client:** Marin Municipal Water District
Contact Person: Dick Paulson
Title: Construction Manager
Phone: 415-945-1569
Email: dpaulson@marinwater.org
Project Title: Slide Gulch Pump Station Summit Tank
Project Location: Mill Valley
Work Performed: as Prime
Contract Amount: \$945,000.00
Scheduled Completion Date: January 2017
Completion Date: January 2017

6. **Agency/Client:** City of Santa Rosa
Contact Person: Eric Frye
Title: Construction Manager
Phone: 707-543-3858
Email: efrye@srcity.org
Project Title: Brown Farm Pond Drain
Project Location: Santa Rosa
Work Performed: as Prime
Contract Amount: \$660,000.00
Scheduled Completion Date: November 2016
Completion Date: January 2017



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- 7. Agency/Client:** Sweetwater Springs Water District
Contact Person: Steve Mack
Title: General Manager
Phone: 707-869-4000
Email: smack@sweetwatersprings.com
Project Title: 2016 Capital Improvements
Project Location: Guerneville
Work Performed: as Prime
Contract Amount: \$959,000.00
Scheduled Completion Date: December 2015
Completion Date: February 2016
- 8. Agency/Client:** California Department of Transportation
Contact Person: Scott Hislop
Title: Project Engineer
Phone: 707-249-4732
Email: scott_hislop@dot.ca.gov
Project Title: Hwy 116
Project Location: Sebastopol
Work Performed: as Prime
Contract Amount: \$656,000.00
Scheduled Completion Date: August 2015
Completion Date: August 2015
- 9. Agency/Client:** Palomino Lakes Mutual Water District
Contact Person: John Locey
Title: Project Engineer
Phone: 707-576-1322
Email: locey@brce.com
Project Title: Palomino Lakes Mutual Water
Project Location: Cloverdale
Work Performed: as Prime
Contract Amount: \$654,000.00
Scheduled Completion Date: March 2015
Completion Date: April 2015



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10. Agency/Client: Sweetwater Springs Water District

Contact Person: Steve Mack

Title: General Manager

Phone: 707-869-4000

Email: smack@sweetwatersprings.com

Project Title: 2015 Capital Improvements

Project Location: Guerneville

Work Performed: as Prime

Contract Amount: \$845,000.00

Scheduled Completion Date: December 2014

Completion Date: March 2015

STATEMENT OF EXPERIENCE

List Jobs performed in the last 5 years that are representative of your firm's qualifications to perform the Work required by the Contract Documents. Start with the most recent jobs. Be specific when listing "Type of Work Performed." Provide at least three jobs and references.

Date of Job	Start:	Complete:	Start:	Complete:
Project Name	* SEE ATTACHED SHEETS			
Job Location:				
Type of Work Performed:				
Reference Client or Owner Name and Address				
Reference Phone #				

Date of Job	Start:	Complete:	Start:	Complete:
Project Name				
Job Location:				
Type of Work Performed:				
Reference Client or Owner Name and Address				
Reference Phone #				

NONCOLLUSION AFFIDAVIT

TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID

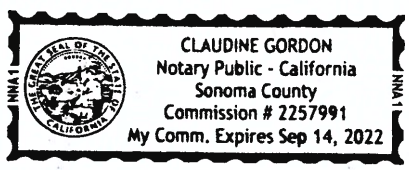
State of California

County of Sonoma

James A. Piazza; being first duly sworn, deposes and says that he or she is

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

By [Signature]



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 Sonoma
Subscribed and sworn to (or affirmed) before me this 16th day
of February, 2021, by James A. Piazza

[Signature] proved to me on the basis of satisfactory evidence to be the person who appeared before me.
Signature _____ (Seal)

Bid Bond

CONTRACTOR:

(Name, legal status and address)

Piazza Construction
PO Box 573
Penngrove, CA 94951

SURETY:

(Name, legal status and principal place of business)

Harco National Insurance Company
702 Oberlin Road
Raleigh, NC 27605-0800

This document has important legal consequences. Consultation with an attorney is encouraged with respect to its completion or modification. Any singular reference to Contractor, Surety, Owner or other party shall be considered plural where applicable.

OWNER:

(Name, legal status and address)

Inverness Public Utility District
50 Inverness Way
Inverness, CA 94937

BOND AMOUNT:Ten Percent of Amount Bid (10% of amount bid)

PROJECT:

(Name, location or address, and Project number, if any)

Tenney Tank Site Water Tank Replacements project

Project Number, if any:

The Contractor and Surety are bound to the Owner in the amount set forth above, for the payment of which the Contractor and Surety bind themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, as provided herein. The conditions of this Bond are such that if the Owner accepts the bid of the Contractor within the time specified in the bid documents, or within such time period as may be agreed to by the Owner and Contractor, and the Contractor either (1) enters into a contract with the Owner in accordance with the terms of such bid, and gives such bond or bonds as may be specified in the bidding or Contract Documents, with a surety admitted in the jurisdiction of the Project and otherwise acceptable to the Owner, for the faithful performance of such Contract and for the prompt payment of labor and material furnished in the prosecution thereof; or (2) pays to the Owner the difference, not to exceed the amount of this Bond, between the amount specified in said bid and such larger amount for which the Owner may in good faith contract with another party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to remain in full force and effect. The Surety hereby waives any notice of an agreement between the Owner and Contractor to extend the time in which the Owner may accept the bid. Waiver of notice by the Surety shall not apply to any extension exceeding sixty (60) days in the aggregate beyond the time for acceptance of bids specified in the bid documents, and the Owner and Contractor shall obtain the Surety's consent for an extension beyond sixty (60) days.

If this Bond is issued in connection with a subcontractor's bid to a Contractor, the term Contractor in this Bond shall be deemed to be Subcontractor and the term Owner shall be deemed to be Contractor.

When this Bond has been furnished to comply with a statutory or other legal requirement in the location of the Project, any provision in this Bond conflicting with said statutory or legal requirement shall be deemed deleted herefrom and provisions conforming to such statutory or other legal requirement shall be deemed incorporated herein. When so furnished, the intent is that this Bond shall be construed as a statutory bond and not as a common law bond.

Signed and sealed this 16th day of February, 2021

Piazza Construction

(Principal)

(Seal)

(Witness)

(Title) OWNER

Harco National Insurance Company

(Surety)

(Seal)

(Witness)

(Title) Claudine Gordon, Attorney-in-Fact



By arrangement with the American Institute of Architects, the National Association of Surety Bond Producers (NASBP) (www.nasbp.org) makes this form document available to its members, affiliates, and associates in Microsoft Word format for use in the regular course of surety business. NASBP vouches that the original text of this document conforms exactly to the text in AIA Document A310-2010, Bid Bond. Subsequent modifications may be made to the original text of this document by users, so careful review of its wording and consultation with an attorney are encouraged before its completion, execution or acceptance.

POWER OF ATTORNEY
HARCO NATIONAL INSURANCE COMPANY
INTERNATIONAL FIDELITY INSURANCE COMPANY

Bond # N/A

Member companies of IAT Insurance Group, Headquartered: 702 Oberlin Road, Raleigh, North Carolina 27605

KNOW ALL MEN BY THESE PRESENTS: That **HARCO NATIONAL INSURANCE COMPANY**, a corporation organized and existing under the laws of the State of Illinois, and **INTERNATIONAL FIDELITY INSURANCE COMPANY**, a corporation organized and existing under the laws of the State of New Jersey, and having their principal offices located respectively in the cities of Rolling Meadows, Illinois and Newark, New Jersey, do hereby constitute and appoint

ELIZABETH COLLODI, JOSEPH H. WEBER, SARA WALLISER, STEPHANIE AGAPOFF, MARISSA ROBINSON, DEANNA QUINTERO, K. COREY WARD, SAMANTHA WATKINS, KATHERINE GORDON, RENEE RAMSEY, JOHN HOPKINS, JENNIFER LAKMANN, CLAUDINE GORDON, KRISTIE PHILLIPS, MINDY WHITEHOUSE, JOHN J. WEBER, PHIL WATKINS, STEVEN L. WILLIAMS, MICHAEL FEENEY

Chico, CA

their true and lawful attorney(s)-in-fact to execute, seal and deliver for and on its behalf as surety, any and all bonds and undertakings, contracts of indemnity and other writings obligatory in the nature thereof, which are or may be allowed, required or permitted by law, statute, rule, regulation, contract or otherwise, and the execution of such instrument(s) in pursuance of these presents, shall be as binding upon the said **HARCO NATIONAL INSURANCE COMPANY** and **INTERNATIONAL FIDELITY INSURANCE COMPANY**, as fully and amply, to all intents and purposes, as if the same had been duly executed and acknowledged by their regularly elected officers at their principal offices.

This Power of Attorney is executed, and may be revoked, pursuant to and by authority of the By-Laws of **HARCO NATIONAL INSURANCE COMPANY** and **INTERNATIONAL FIDELITY INSURANCE COMPANY** and is granted under and by authority of the following resolution adopted by the Board of Directors of **INTERNATIONAL FIDELITY INSURANCE COMPANY** at a meeting duly held on the 13th day of December, 2018 and by the Board of Directors of **HARCO NATIONAL INSURANCE COMPANY** at a meeting held on the 13th day of December, 2018.

"**RESOLVED**, that (1) the Chief Executive Officer, President, Executive Vice President, Senior Vice President, Vice President, or Secretary of the Corporation shall have the power to appoint, and to revoke the appointments of, Attorneys-in-Fact or agents with power and authority as defined or limited in their respective powers of attorney, and to execute on behalf of the Corporation and affix the Corporation's seal thereto, bonds, undertakings, recognizances, contracts of indemnity and other written obligations in the nature thereof or related thereto; and (2) any such Officers of the Corporation may appoint and revoke the appointments of joint-control custodians, agents for acceptance of process, and Attorneys-in-fact with authority to execute waivers and consents on behalf of the Corporation; and (3) the signature of any such Officer of the Corporation and the Corporation's seal may be affixed by facsimile to any power of attorney or certification given for the execution of any bond, undertaking, recognizance, contract of indemnity or other written obligation in the nature thereof or related thereto, such signature and seals when so used whether heretofore or hereafter, being hereby adopted by the Corporation as the original signature of such officer and the original seal of the Corporation, to be valid and binding upon the Corporation with the same force and effect as though manually affixed."

IN WITNESS WHEREOF, **HARCO NATIONAL INSURANCE COMPANY** and **INTERNATIONAL FIDELITY INSURANCE COMPANY** have each executed and attested these presents on this 31st day of December, 2019



STATE OF NEW JERSEY
County of Essex

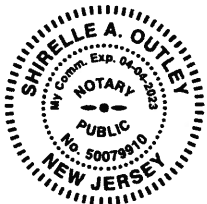
Kenneth Chapman

Executive Vice President, Harco National Insurance Company
and International Fidelity Insurance Company

STATE OF ILLINOIS
County of Cook



On this 31st day of December, 2019, before me came the individual who executed the preceding instrument, to me personally known, and, being by me duly sworn, said he is the therein described and authorized officer of **HARCO NATIONAL INSURANCE COMPANY** and **INTERNATIONAL FIDELITY INSURANCE COMPANY**; that the seals affixed to said instrument are the Corporate Seals of said Companies; that the said Corporate Seals and his signature were duly affixed by order of the Boards of Directors of said Companies.



IN TESTIMONY WHEREOF, I have hereunto set my hand affixed my Official Seal, at the City of Newark, New Jersey the day and year first above written.

Shirelle A. Outley a Notary Public of New Jersey
My Commission Expires April 4, 2023

CERTIFICATION

I, the undersigned officer of **HARCO NATIONAL INSURANCE COMPANY** and **INTERNATIONAL FIDELITY INSURANCE COMPANY** do hereby certify that I have compared the foregoing copy of the Power of Attorney and affidavit, and the copy of the Sections of the By-Laws of said Companies as set forth in said Power of Attorney, with the originals on file in the home office of said companies, and that the same are correct transcripts thereof, and of the whole of the said originals, and that the said Power of Attorney has not been revoked and is now in full force and effect.

IN TESTIMONY WHEREOF, I have hereunto set my hand on this day, February 16, 2021

A00447

Irene Martins, Assistant Secretary

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 Sonoma)

On February 16, 2021 before me, Kristie Lyn Phillips, Notary Public
(insert name and title of the officer)

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

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

WITNESS my hand and official seal.

Signature 

(Seal)





P.O. Box 14912 • Oakland, CA 94614
T. (877) 802-3394 • F. (510) 751-0780

Transaction Date

02/04/2021 12:00 PM

Order No.

100537-50422

Piazza Construction
P.O. Box 573
Penngrove, CA 94951
T. (707) 876-3410 ext.
F. (707) 876-3256
piazzapc02@gmail.com

Project Name

Tenney Tank Water Tank Replacements

Project/Contract #

2630.05

Transaction Summary

Gold Package Lite

- Focus Journal Notice
- Trade Journal Notice
- 30 Faxes & Emails
- Phone Solicitations

SBA & MBDA Notices

Piazza Construction
P.O. Box 573
Penngrove, CA 94951
Tel: (707) 876-3410
Fax: (707) 876-3256

Ad Proofs

Project Name: Tenney Tank Water Tank Replacements

Contract/Bid #: 2630.05

Awarding Agency: Inverness Public Utility District

Focus Journal Ad

Publication: DBE GoodFaith (DBEGoodFaith.com)

Published On: 02/04/2021 @ 12:00:09 PM Pacific

Expired On: 02/17/2021 @ 11:59:59 PM Pacific

Message Notifications Sent To: piazzapc02@gmail.com

Published At: https://dbegoodfaith.com/item.php?item_type=ads&ad_adid=50422



Piazza Construction

Is seeking qualified DBEs

Project Name

Tenney Tank Water Tank Replacements

Bid/Contract #

2630.05

Awarding Agency

Inverness Public Utility District

Project Location

Inverness, Marin County, CA

Bid Date

02/17/2021 at 02:00

Project Details

Piazza Construction is seeking the use of DBE subcontractors and suppliers for the following aspects of the job: concrete, rebar, thermoset powder coated bolted steel tanks, pre-fabricated shed, water pipe and fittings, pipe bedding, trench backfill, shale, electrical conduit and fittings, and bolted steel tank cathodic protection.

Project documents can be downloaded at the following link:

<https://www.dropbox.com/sh/ykfvpor57zgiyg/AAAzAFEcudsXuIF>

100% performance and payment bonds may be required. Subcontractor's license, DIR registration number, and current insurance. Contractors and suppliers to provide proof of current DBE certification with proposal. Subcontractor shall take out and maintain during the life of the contract, a Commercial General Liability Policy, with a minimum limit as defined within the contract documents, naming Piazza Construction as additionally insured.

Get in Touch

Outreach Coordinator

James Piazza

Project Estimator

James Piazza

Telephone

(707) 876-3410

Fax

(707) 876-3256

Address

P.O. Box 573

Penngrove, CA 94951

[Send a message](#)

How to get in touch

Outreach Coordinator

James Piazza

Project Estimator

James Piazza

Telephone

(707) 876-3410

Fax

(707) 876-3256

Address

P.O. Box 573

Penngrove, CA 94951

[Send a message](#)

Trade Journal Ad

Publication: DBE Journal (DBEJournal.com)

Published On: 02/04/2021 @ 12:00:09 PM Pacific

Expired On: 02/17/2021 @ 11:59:59 PM Pacific

Published At:

http://dbejournal.com/index.php?show_ad=50422&ad_project_name=Tenney+Tank+Water+Tank+Replacements&co_name=Piazza+Construction



Outreach Coordinator

James Piazza

Estimator

James Piazza

Contact Information

P.O. Box 573
Penn Grove, CA 94951

Telephone

(707) 876-3410

Fax

(707) 876-3256

Piazza Construction

is seeking qualified DBEs

Project Name

Tenney Tank Water Tank Replacements

Bid/Contract #

2630.05

Awarding Agency

Inverness Public Utility District

Project Location

Inverness, Marin County, CA

Bid Date

02/17/2021 at 02:00

Project Details

Piazza Construction is seeking the use of DBE subcontractors and suppliers for the following aspects of the job: concrete, rebar, thermoset powder coated bolted steel tanks, pre-fabricated shed, water pipe and fittings, pipe bedding, trench backfill, shale, electrical conduit and fittings, and bolted steel tank cathodic protection.

Project documents can be downloaded at the following link:

<https://www.dropbox.com/sh/ykfvpor57zgiyg/AAAzAFEcudsXulFCAzGUYLCxa?dl=0>
100% performance and payment bonds may be required. Subcontractors must possess a valid contractor's license, DIR registration number, and current insurance. Contractors and suppliers to provide proof of current DBE certification with proposal. Subcontractor shall take out and maintain during the life of the contract, a Commercial General Liability Policy, with a minimum limit as defined within the contract documents, naming Piazza Construction as additionally insured.

Tweet

Published On: 02/04/2021 @ 12:03:07 PM Pacific

Published At: <https://twitter.com/dbegoodfaith/status/1357419434240000000>

PLEASE NOTE - The image below is a representation of what your tweet may look like. The appearance of your tweet can vary depending on a variety of factors, including the type of device the tweet is displayed on and Twitter's internal settings. For a real-time copy of your tweet, please use the link provided above to view on Twitter.com & print the screen from your browser. You do not need a Twitter account to view or print this tweet.

 **DBEGoodFaith.com**
@dbegoodfaith

[Follow](#) 

Piazza Construction is seeking DBEs in Inverness -
dbegoodfaith.com/item.php?item_...

The logo for Piazza Construction features a blue circle on the left containing the white letters 'P' and 'C' in a stylized font. To the right of the circle, the word 'PIAZZA' is written in a large, bold, blue serif font, and the word 'CONSTRUCTION' is written below it in a smaller, bold, blue serif font.

12:03 PM - Feb 04, 2021

NSS Details

Business name

Piazza Construction

DUNS**Type Of Business Being Solicited**

Disadvantaged Business Enterprise (DBE)

NAICS Code

23 110 Water and Sewer Line and Related Structures Construction

Additional NAICS Code

23 910 23 120 212325 212321 423610 23 210 332996 332312 332420
23 190 23 110 332311

Brief NSS Description

enney an Water an Replacements
Owner Inverness Public Utility District
Bid/Contract 2630.05

NSS POC

First name James

Last name Piazza

Phone 0 63410

Ext

Fax 0 63256

Email piazzapc02@gmail.com

Place Of Performance

CA Santa Rosa

Performance Start Date**NSS Closing Date**

02/1 /2021 2 00 PM

NSS

SS 2630.05

Piazza Construction
P.O. Box 573
Penngrove, CA 94951
Tel: (707) 876-3410
Fax: (707) 876-3256

Email, Fax, & Telephone Solicitation Log

Project Name: Tenney Tank Water Tank Replacements

Contract/Bid #: 2630.05

Awarding Agency: Inverness Public Utility District

Log Details

- All emails and faxes were sent and tracked through DBEGoodFaith.com's automated solicitation and logging system.
- The solicitation system makes up to 5 attempts to successfully delivery a fax as long as a human does not answer the call. If a human answers the call, only 1 attempt is made.
- The solicitation system attempts to successfully deliver emails until the response from the receipient's email server requests that no other attempts be made.
- All calls are performed by real people. No calls are pre-recorded.

Company	Fax Send Date & Delivery Status	Email Send Date & Delivery Status	Call Details
A B S L CONSTRUCTION 29393 PACIFIC ST HAYWARD, CA 94544 Tel: 5107270900 Fax: 5107270910 luis@abslconstruction.com Cert: DBE - M. Owned	02/04/2021 12:11 pm PST Successful	02/04/2021 12:12 pm PST Delivered	Call 1: 02/05/2021 @ 01:02 pm PST - Voicemail - Unable to confirm whether they are interested in submitting a quote. Left a voicemail with all the project details.
A-1 ORNAMENTAL IRON WORKS, INC. 4637 E. WHITE AVENUE FRESNO, CA 93702 Tel: 5592511447 Fax: 5592514169 a1orniron@sbcglobal.net Cert: DBE - M. Owned	02/04/2021 12:10 pm PST Successful	02/04/2021 12:12 pm PST Delivered	Call 1: 02/05/2021 @ 01:04 pm PST - Erica - No, not submitting a quote for this project.
ALERT-O-LITE, INC 2379 S G STREET FRESNO, CA 93721 Tel: 5594532474 Fax: 5594533250 debbieh@alertolite.com Cert: DBE - F. Owned	02/04/2021 12:11 pm PST Successful	02/04/2021 12:12 pm PST Delivered	Call 1: 02/05/2021 @ 01:08 pm PST - Receptionist - No, not submitting a quote for this project. The project is outside of their work area.
BASSI TRUCKING 165 LEWELLING BLVD. SAN LORENZO, CA 94580 Tel: 5106886422 Fax: 5106749222 bassitrucking2015@gmail.com Cert: DBE - F. Owned	02/04/2021 12:40 pm PST Failed	02/04/2021 12:12 pm PST Delivered	Call 1: 02/05/2021 @ 01:09 pm PST - Voicemail - Unable to confirm whether they are interested in submitting a quote. Left a voicemail with all the project details.
BAY LINE CUTTING & CORING, INC. 501 CESAR CHAVEZ STREET, SUITE 101B SAN FRANCISCO, CA 94124 Tel: 4155081800 Fax: 4155081811 juan@baylinecutting.com Cert: DBE - M. Owned	02/04/2021 12:11 pm PST Successful	02/04/2021 12:12 pm PST Delivered	Call 1: 02/05/2021 @ 01:13 pm PST - Luis - Yes, they intend to submit a quote. They will send it over before the bid due date.

BC SCHMIDT CONSTRUCTION, INC. P.O. BOX 1557 WILLIAMS, CA 95987 Tel: 5304735423 Fax: 5304732749 cs@bcschmidt.com Cert: DBE - F. Owned	02/04/2021 12:38 pm PST Failed	02/04/2021 12:12 pm PST Bounced	Call 1: 02/05/2021 @ 01:14 pm PST - Carlie - No, not submitting a quote for this project.
BELMONTE'S CONCRETE SERVICE 4356 COLISEUM WAY OAKLAND, CA 94601 Tel: 5102618439 Fax: 5102610577 belmonteconcrete@earthlink.net Cert: DBE	02/04/2021 12:24 pm PST Failed	02/04/2021 12:12 pm PST Bounced	Call 1: 02/05/2021 @ 01:16 pm PST - Voicemail - Unable to confirm whether they are interested in submitting a quote. Left a voicemail with all the project details.
BRAY TRUCKING 5959 HIGHWAY 175 HOPLAND, CA 95449 Tel: 7077441640 Fax: 7077441630 tammy@braytruckinginc.com Cert: DBE - F. Owned	02/04/2021 12:24 pm PST Failed	02/04/2021 12:12 pm PST Delivered	Call 1: 02/05/2021 @ 01:17 pm PST - Tammy - No, not submitting a quote for this project. The project is outside of their work area.
CAL-CON PUMPING, LLC 1 AVENUE OF THE PALMS AVE., STE 212 SAN FRANCISCO, CA 94130 Tel: 4154019838 Fax: 4154017664 jb.calcon@mac.com Cert: DBE	02/04/2021 12:34 pm PST Failed	02/04/2021 12:12 pm PST Bounced	Call 1: 02/05/2021 @ 01:19 pm PST - Disconnected - Unable to confirm whether they are interested in submitting a quote. The phone number is disconnected.
CALIFORNIA GRINDING SPECIALTIES, INC. DBA AUSTIN ENTERPRISE 13421 SNOW ROAD BAKERSFIELD, CA 93314 Tel: 6615891001 Fax: 6615899509 paustin@austin-enterprise.com Cert: DBE - F. Owned	02/04/2021 12:10 pm PST Successful	02/04/2021 12:12 pm PST Delivered	Call 1: 02/05/2021 @ 01:20 pm PST - Receptionist - No, not submitting a quote for this project.

CENTRAL VALLEY REINFORCING 2301 W BELMONT AVE FRESNO, CA 93728 Tel: 5593650340 Fax: None Listed VZAMORA@CVRFRESNO.COM Cert: DBE - M. Owned	n/a	02/04/2021 12:12 pm PST Delivered	Call 1: 02/05/2021 @ 01:26 pm PST - Voicemail - Unable to confirm whether they are interested in submitting a quote. Left a voicemail with all the project details.
DISABLED AMERICAN VETERAN ENTERPRISES TRUCKING & SWEEPING, I 5633 N. FIGARDEN DR #109 FRESNO, CA 93722 Tel: 5593705756 Fax: 5593746470 DAVEtrucksweep@gmail.com Cert: DBE - M. Owned	02/04/2021 12:11 pm PST Successful	02/04/2021 12:12 pm PST Delivered	Call 1: 02/05/2021 @ 01:28 pm PST - Voicemail - Unable to confirm whether they are interested in submitting a quote. Left a voicemail with all the project details.
DOUBLE G'S SUPPLY, INC. 3936 WAYSIDE LANE CARMICHAEL, CA 95608 Tel: 5309023058 Fax: 8668782769 gguillory@doublegsupply.com Cert: DBE - F. Owned	02/04/2021 12:21 pm PST Successful	02/04/2021 12:12 pm PST Delivered	Call 1: 02/05/2021 @ 01:33 pm PST - Voicemail - Unable to confirm whether they are interested in submitting a quote. Left a voicemail with all the project details.
EAGLE ROCK INDUSTRIES 214 BRITAIN COURT ALAMO, CA 94507 Tel: 9255243004 Fax: 9255243004 estimating@eaglerock.us Cert: DBE - M. Owned	02/04/2021 12:10 pm PST Successful	02/04/2021 12:12 pm PST Delivered	Call 1: 02/05/2021 @ 01:48 pm PST - Voicemail - Unable to confirm whether they are interested in submitting a quote. Left a voicemail with all the project details.
G & C EQUIPMENT CORP. 1875 W. REDONDO BEACH BLVD. #207 GARDENA, CA 90247 Tel: 3105156715 Fax: 3105155046 gene@gandccorp.com Cert: DBE	02/04/2021 12:47 pm PST Failed	02/04/2021 12:12 pm PST Delivered	Call 1: 02/05/2021 @ 01:51 pm PST - Voicemail - Unable to confirm whether they are interested in submitting a quote. Left a voicemail with all the project details.

GRAND BRIDGE INC 2208 W BEECHWOOD AVE FRESNO, CA 93711 Tel: 5594335919 Fax: None Listed jgonzalez@grandbridgeinc.com Cert: DBE - M. Owned	n/a	02/04/2021 12:12 pm PST Delivered	Call 1: 02/05/2021 @ 01:52 pm PST - Voicemail - Unable to confirm whether they are interested in submitting a quote. Left a voicemail with all the project details.
GSJ UTILITY SUPPLY & SERVICE 14565 S. VALLEY VIEW AVENUE #Z SANTA FE SPRINGS, CA 90670 Tel: 5624041113 Fax: 8883561250 sandy@gsj-utility.com Cert: DBE	02/04/2021 12:11 pm PST Successful	02/04/2021 12:12 pm PST Delivered	Call 1: 02/05/2021 @ 01:58 pm PST - Disconnected - Unable to confirm whether they are interested in submitting a quote. The phone number is disconnected.
IMPERIAL ELECTRIC SERVICE 5861 E. PLATT AVE FRESNO, CA 93727 Tel: 5593746484 Fax: None Listed WINDELL@IMPERIALELECTRICSERVICE.COM Cert: DBE - M. Owned	n/a	02/04/2021 12:12 pm PST Bounced	Call 1: 02/05/2021 @ 01:59 pm PST - Janet - Re-sent an email to the address on record. They will take a look at it and respond if interested.
K & G CONCRETE INC 1079 SUNRISE AVENUE, SUITE B-353 ROSEVILLE, CA 95661 Tel: 9167740287 Fax: 8668782769 keaven@kandgconcrete.com Cert: DBE - M. Owned	02/04/2021 12:13 pm PST Successful	02/04/2021 12:12 pm PST Delivered	Call 1: 02/05/2021 @ 02:01 pm PST - Voicemail - Unable to confirm whether they are interested in submitting a quote. Left a voicemail with all the project details.
K R C SAFETY CO. INC. 7821 WEST SUNNYVIEW VISALIA, CA 93291 Tel: 5597320393 Fax: 5597322684 garyc@krcsafety.com Cert: DBE - M. Owned	02/04/2021 12:10 pm PST Successful	02/04/2021 12:12 pm PST Delivered	Call 1: 02/05/2021 @ 02:04 pm PST - Voicemail - Unable to confirm whether they are interested in submitting a quote. Left a voicemail with all the project details.

MAS METALS 600 MONTAGUE AVENUE SAN LEANDRO, CA 94577 Tel: 5102591426 Fax: 5102591476 roberto@masmetalsinc.com Cert: DBE - M. Owned	02/04/2021 12:10 pm PST Successful	02/04/2021 12:12 pm PST Delivered	Call 1: 02/05/2021 @ 02:09 pm PST - Michelle - Provided all the project details to the receptionist and they will get in touch if interested.
NITTA EROSION CONTROL 3778 DEL MAR AVENUE LOOMIS, CA 95650 Tel: 9166527459 Fax: 9166524376 nittaec@gmail.com Cert: DBE - F. Owned	02/04/2021 12:10 pm PST Successful	02/04/2021 12:12 pm PST Delivered	Call 1: 02/05/2021 @ 02:13 pm PST - Val - They are still deciding whether they are interested in this project. Call 2: No 2nd call scheduled.
NUNEZ PRECISION WELDING, INC 1820 HOURET COURT MILPITAS, CA 95035 Tel: 4082639503 Fax: 4082639506 carlos@npwelding.com Cert: DBE - M. Owned	02/04/2021 12:27 pm PST Failed	02/04/2021 12:12 pm PST Delivered	Call 1: 02/05/2021 @ 02:14 pm PST - Voicemail - Unable to confirm whether they are interested in submitting a quote. Left a voicemail with all the project details.
NUNO IRON & MFG, INC 315 BITTERWATER RD. KING CITY, CA 93930 Tel: 8313860513 Fax: 8313869976 bpantoja@nunoiron.com Cert: DBE - M. Owned	02/04/2021 12:10 pm PST Successful	02/04/2021 12:12 pm PST Delivered	Call 1: 02/05/2021 @ 02:16 pm PST - Receptionist - No, not submitting a quote for this project.
PVF SALES 13707 BORATE ST. SANTA FE SPRINGS, CA 90670 Tel: 5626239999 Fax: 5626230909 andrick@pvfsales.com Cert: DBE	02/04/2021 12:10 pm PST Successful	02/04/2021 12:12 pm PST Delivered	Call 1: 02/05/2021 @ 02:19 pm PST - Receptionist - No, not submitting a quote for this project.

RCJ & ASSOCIATES, INC
1709 V STREET
SACRAMENTO, CA 95818
Tel: 9163994852
Fax: 9163994853
ricky@rcjandassociates.com
Cert: DBE - M. Owned

02/04/2021
12:28 pm PST
Failed

02/04/2021
12:12 pm PST
Delivered

Call 1: 02/05/2021 @ 02:25 pm PST - Receptionist - No,
not submitting a quote for this project.

SASS INDUSTRIES INC DBA SAICAD
1758 JUNCTION AVE # H
SAN JOSE, CA 95112
Tel: 4085066097
Fax: None Listed
INFO@SAICAD.NET
Cert: DBE - M. Owned

n/a

02/04/2021
12:12 pm PST
Delivered

Call 1: 02/05/2021 @ 02:26 pm PST - Voicemail -
Unable to confirm whether they are interested in
submitting a quote. Left a voicemail with all the project
details.

SILVER CREEK ELECTRIC, INC.
280 COCHRANE CIRCLE, SUITE B
MORGAN HILL, CA 95037
Tel: 4083219094
Fax: 4083219329
jdeharo@silvercreekelectric.com
Cert: DBE - M. Owned

02/04/2021
12:10 pm PST
Successful

02/04/2021
12:12 pm PST
Delivered

Call 1: 02/05/2021 @ 02:28 pm PST - Receptionist - No,
not submitting a quote for this project.

SOUTH EAST ELECTRICAL CONTRACTOR
1325B EVANS AVENUE
SAN FRANCISCO, CA 94124
Tel: 4155746582
Fax: None Listed
seelectric84@gmail.com
Cert: DBE - M. Owned

n/a

02/04/2021
12:12 pm PST
Delivered

Call 1: 02/05/2021 @ 02:29 pm PST - Voicemail -
Unable to confirm whether they are interested in
submitting a quote. Left a voicemail with all the project
details.

WEST PACIFIC ELECTRIC COMPANY
20071 W GLENDALE AVENUE
LEMOORE, CA 93245
Tel: 5599246422
Fax: 5599244826
westpacificelectricco@gmail.com
Cert: DBE - F. Owned

02/04/2021
12:10 pm PST
Successful

02/04/2021
12:12 pm PST
Delivered

Call 1: 02/05/2021 @ 02:33 pm PST - Voicemail -
Unable to confirm whether they are interested in
submitting a quote. Left a voicemail with all the project
details.

Piazza Construction
P.O. Box 573
Penngrove, CA 94951
Tel: (707) 876-3410
Fax: (707) 876-3256

Outreach Invitation Proofs

Project Name: Tenney Tank Water Tank Replacements

Contract/Bid #: 2630.05

Awarding Agency: Inverness Public Utility District

Log details

- This document contains a single copy of the bid invitation emailed to each company with an email address listed on their certification. The same email was sent to all companies, which is why we have provided the single email proof.
- This document contains a copy of each fax notice sent to solicited companies with a fax number listed on their certification.

Email Proof

Subject Line: [Bid Invite] Tenney Tank Water Tank Replacements

Reply To Email: piazzapc02@gmail.com

Piazza Construction is seeking qualified DBEs and invites you to bid on the following contract.

Reply

PROJECT NAME: Tenney Tank Water Tank Replacements

BID #: 2630.05

BID DUE DATE: 02/17/2021 at 02:00 (local time)

AWARDING AGENCY/OWNER: Inverness Public Utility District

PROJECT LOCATION: Inverness, Marin, CA

Piazza Construction is seeking the use of DBE subcontractors and suppliers for the following aspects of the job: concrete, rebar, thermoset powder coated bolted steel tanks, pre-fabricated shed, water pipe and fittings, pipe bedding, trench backfill, shale, electrical conduit and fittings, and bolted steel tank cathodic protection.

Project documents can be downloaded at the following link:

<https://www.dropbox.com/sh/ykfvfpor57zgiyg/AAAzAFEcudsXulFCAzGUYLCxa?dl=0>

100% performance and payment bonds may be required. Subcontractors must possess a valid contractor's license, DIR registration number, and current insurance. Contractors and suppliers to provide proof of current DBE certification with proposal. Subcontractor shall take out and maintain during the life of the contract, a Commercial General Liability Policy, with a minimum limit as defined within the contract documents, naming Piazza Construction as additionally insured.

If interested, contact:

James Piazza

Piazza Construction

Tel: (707) 876-3410

Fax: (707) 876-3256

piazzapc02@gmail.com

This email was sent via the DBEGoodFaith.com outreach platform. To learn more about why you received this bid invitation email, visit DBEGoodFaith.com/why.

INVITATION TO BID

FROM: Piazza Construction
 P.O. Box 573
 Penngrove, CA 94951
 Tel: (707) 876-3410
 Fax: (707) 876-3256
 piazzapc02@gmail.com
 CONTACT NAME: James Piazza

TO: A B S L CONSTRUCTION
 Tel: (510) 727-0900
 Fax: (510) 727-0910

Piazza Construction is Seeking Qualified DBEs	
PROJECT NAME	Tenney Tank Water Tank Replacements
BID DUE DATE	02/17/2021 at 02:00
BID / PROJECT #	2630.05
AGENCY NAME	Inverness Public Utility District
PROJECT LOCATION	Inverness, Marin, CA

Piazza Construction is seeking the use of DBE subcontractors and suppliers for the following aspects of the job: concrete, rebar, thermoset powder coated bolted steel tanks, pre-fabricated shed, water pipe and fittings, pipe bedding, trench backfill, shale, electrical conduit and fittings, and bolte d steel tank cathodic protection.

Project documents can be downloaded at the following link: <https://www.dropbox.com/sh/ykfvfpor57zgiyg/AAAzAFecudsXulFCAzGUYLCxa?dl=0> 100% performance and payment bonds may be required. Subcontractor s must possess a valid contractor's license, DIR registration number, and current insurance. Contrac tors and suppliers to provide proof of current DBE certification with proposal. Subcontractor shall take out and maintain during the life of the contract, a Commercial General Liability Policy, with a minimum limit as defined within the contract documents, naming Piazza Construction as additionally insured.

HOW TO REPLY	
ONLINE	Visit dbegoodfaith.com/respond and enter Solicitation ID 1793828-50422
BY FAX	Fax back this invitation with your response to: (707) 876-3256 <input type="checkbox"/> Yes, we will send a fax quote by the bid date. <input type="checkbox"/> No, we are not interested. <input type="checkbox"/> Interested, but we would like more information. Please contact us at _____.
BY EMAIL	Contact James Piazza at piazzapc02@gmail.com

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 Learn more about why you received this invitation at DBEGoodFaith.com/why*

INVITATION TO BID

FROM: Piazza Construction
P.O. Box 573
Penngrove, CA 94951
Tel: (707) 876-3410
Fax: (707) 876-3256
piazzapc02@gmail.com
CONTACT NAME: James Piazza

TO: A-1 ORNAMENTAL IRON WORKS, INC.
Tel: (559) 251-1447
Fax: (559) 251-4169

Piazza Construction is Seeking Qualified DBEs	
PROJECT NAME	Tenney Tank Water Tank Replacements
BID DUE DATE	02/17/2021 at 02:00
BID / PROJECT #	2630.05
AGENCY NAME	Inverness Public Utility District
PROJECT LOCATION	Inverness, Marin, CA

Piazza Construction is seeking the use of DBE subcontractors and suppliers for the following aspects of the job: concrete, rebar, thermoset powder coated bolted steel tanks, pre-fabricated shed, water pipe and fittings, pipe bedding, trench backfill, shale, electrical conduit and fittings, and bolte d steel tank cathodic protection.

Project documents can be downloaded at the following link: <https://www.dropbox.com/sh/ykfvfpor57zgiyg/AAAzAFecudsXulFCAzGUYLCxa?dl=0> 100% performance and payment bonds may be required. Subcontractor s must possess a valid contractor's license, DIR registration number, and current insurance. Contrac tors and suppliers to provide proof of current DBE certification with proposal. Subcontractor shall take out and maintain during the life of the contract, a Commercial General Liability Policy, with a minimum limit as defined within the contract documents, naming Piazza Construction as additionally insured.

HOW TO REPLY	
ONLINE	Visit dbegoodfaith.com/respond and enter Solicitation ID 1793829-50422
BY FAX	Fax back this invitation with your response to: (707) 876-3256 <input type="checkbox"/> Yes, we will send a fax quote by the bid date. <input type="checkbox"/> No, we are not interested. <input type="checkbox"/> Interested, but we would like more information. Please contact us at _____.
BY EMAIL	Contact James Piazza at piazzapc02@gmail.com

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INVITATION TO BID

FROM: Piazza Construction
P.O. Box 573
Penngrove, CA 94951
Tel: (707) 876-3410
Fax: (707) 876-3256
piazzapc02@gmail.com
CONTACT NAME: James Piazza

TO: ALERT-O-LITE, INC
Tel: (559) 453-2474
Fax: (559) 453-3250

Piazza Construction is Seeking Qualified DBEs	
PROJECT NAME	Tenney Tank Water Tank Replacements
BID DUE DATE	02/17/2021 at 02:00
BID / PROJECT #	2630.05
AGENCY NAME	Inverness Public Utility District
PROJECT LOCATION	Inverness, Marin, CA

Piazza Construction is seeking the use of DBE subcontractors and suppliers for the following aspects of the job: concrete, rebar, thermoset powder coated bolted steel tanks, pre-fabricated shed, water pipe and fittings, pipe bedding, trench backfill, shale, electrical conduit and fittings, and bolte d steel tank cathodic protection.

Project documents can be downloaded at the following link: <https://www.dropbox.com/sh/ykfvpor57zgiyg/AAAzAFecudsXulFCAzGUYLCxa?dl=0> 100% performance and payment bonds may be required. Subcontractors must possess a valid contractor's license, DIR registration number, and current insurance. Contractors and suppliers to provide proof of current DBE certification with proposal. Subcontractor shall take out and maintain during the life of the contract, a Commercial General Liability Policy, with a minimum limit as defined within the contract documents, naming Piazza Construction as additionally insured.

HOW TO REPLY	
ONLINE	Visit dbegoodfaith.com/respond and enter Solicitation ID 1793830-50422
BY FAX	Fax back this invitation with your response to: (707) 876-3256 <input type="checkbox"/> Yes, we will send a fax quote by the bid date. <input type="checkbox"/> No, we are not interested. <input type="checkbox"/> Interested, but we would like more information. Please contact us at _____.
BY EMAIL	Contact James Piazza at piazzapc02@gmail.com

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INVITATION TO BID

FROM: Piazza Construction
P.O. Box 573
Penngrove, CA 94951
Tel: (707) 876-3410
Fax: (707) 876-3256
piazzapc02@gmail.com
CONTACT NAME: James Piazza

TO: BASSI TRUCKING
Tel: (510) 688-6422
Fax: (510) 674-9222

Piazza Construction is Seeking Qualified DBEs	
PROJECT NAME	Tenney Tank Water Tank Replacements
BID DUE DATE	02/17/2021 at 02:00
BID / PROJECT #	2630.05
AGENCY NAME	Inverness Public Utility District
PROJECT LOCATION	Inverness, Marin, CA

Piazza Construction is seeking the use of DBE subcontractors and suppliers for the following aspects of the job: concrete, rebar, thermoset powder coated bolted steel tanks, pre-fabricated shed, water pipe and fittings, pipe bedding, trench backfill, shale, electrical conduit and fittings, and bolte d steel tank cathodic protection.

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HOW TO REPLY	
ONLINE	Visit dbegoodfaith.com/respond and enter Solicitation ID 1793831-50422
BY FAX	Fax back this invitation with your response to: (707) 876-3256 <input type="checkbox"/> Yes, we will send a fax quote by the bid date. <input type="checkbox"/> No, we are not interested. <input type="checkbox"/> Interested, but we would like more information. Please contact us at _____.
BY EMAIL	Contact James Piazza at piazzapc02@gmail.com

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INVITATION TO BID

FROM: Piazza Construction
P.O. Box 573
Penngrove, CA 94951
Tel: (707) 876-3410
Fax: (707) 876-3256
piazzapc02@gmail.com
CONTACT NAME: James Piazza

TO: BAY LINE CUTTING & CORING, INC.
Tel: (415) 508-1800
Fax: (415) 508-1811

Piazza Construction is Seeking Qualified DBEs	
PROJECT NAME	Tenney Tank Water Tank Replacements
BID DUE DATE	02/17/2021 at 02:00
BID / PROJECT #	2630.05
AGENCY NAME	Inverness Public Utility District
PROJECT LOCATION	Inverness, Marin, CA

Piazza Construction is seeking the use of DBE subcontractors and suppliers for the following aspects of the job: concrete, rebar, thermoset powder coated bolted steel tanks, pre-fabricated shed, water pipe and fittings, pipe bedding, trench backfill, shale, electrical conduit and fittings, and bolte d steel tank cathodic protection.

Project documents can be downloaded at the following link: <https://www.dropbox.com/sh/ykfvfpor57zgiyg/AAAzAFecudsXulFCAzGUYLCxa?dl=0> 100% performance and payment bonds may be required. Subcontractor s must possess a valid contractor's license, DIR registration number, and current insurance. Contrac tors and suppliers to provide proof of current DBE certification with proposal. Subcontractor shall take out and maintain during the life of the contract, a Commercial General Liability Policy, with a minimum limit as defined within the contract documents, naming Piazza Construction as additionally insured.

HOW TO REPLY	
ONLINE	Visit dbegoodfaith.com/respond and enter Solicitation ID 1793832-50422
BY FAX	Fax back this invitation with your response to: (707) 876-3256 <input type="checkbox"/> Yes, we will send a fax quote by the bid date. <input type="checkbox"/> No, we are not interested. <input type="checkbox"/> Interested, but we would like more information. Please contact us at _____.
BY EMAIL	Contact James Piazza at piazzapc02@gmail.com

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INVITATION TO BID

FROM: Piazza Construction
P.O. Box 573
Penngrove, CA 94951
Tel: (707) 876-3410
Fax: (707) 876-3256
piazzapc02@gmail.com
CONTACT NAME: James Piazza

TO: BC SCHMIDT CONSTRUCTION, INC.
Tel: (530) 473-5423
Fax: (530) 473-2749

Piazza Construction is Seeking Qualified DBEs	
PROJECT NAME	Tenney Tank Water Tank Replacements
BID DUE DATE	02/17/2021 at 02:00
BID / PROJECT #	2630.05
AGENCY NAME	Inverness Public Utility District
PROJECT LOCATION	Inverness, Marin, CA

Piazza Construction is seeking the use of DBE subcontractors and suppliers for the following aspects of the job: concrete, rebar, thermoset powder coated bolted steel tanks, pre-fabricated shed, water pipe and fittings, pipe bedding, trench backfill, shale, electrical conduit and fittings, and bolte d steel tank cathodic protection.

Project documents can be downloaded at the following link: <https://www.dropbox.com/sh/ykfvfpor57zgiyg/AAAzAFecudsXulFCAzGUYLCxa?dl=0> 100% performance and payment bonds may be required. Subcontractors must possess a valid contractor's license, DIR registration number, and current insurance. Contractors and suppliers to provide proof of current DBE certification with proposal. Subcontractor shall take out and maintain during the life of the contract, a Commercial General Liability Policy, with a minimum limit as defined within the contract documents, naming Piazza Construction as additionally insured.

HOW TO REPLY	
ONLINE	Visit dbegoodfaith.com/respond and enter Solicitation ID 1793833-50422
BY FAX	Fax back this invitation with your response to: (707) 876-3256 <input type="checkbox"/> Yes, we will send a fax quote by the bid date. <input type="checkbox"/> No, we are not interested. <input type="checkbox"/> Interested, but we would like more information. Please contact us at _____.
BY EMAIL	Contact James Piazza at piazzapc02@gmail.com

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INVITATION TO BID

FROM: Piazza Construction
P.O. Box 573
Penngrove, CA 94951
Tel: (707) 876-3410
Fax: (707) 876-3256
piazzapc02@gmail.com
CONTACT NAME: James Piazza

TO: BELMONTE'S CONCRETE SERVICE
Tel: (510) 261-8439
Fax: (510) 261-0577

Piazza Construction is Seeking Qualified DBEs	
PROJECT NAME	Tenney Tank Water Tank Replacements
BID DUE DATE	02/17/2021 at 02:00
BID / PROJECT #	2630.05
AGENCY NAME	Inverness Public Utility District
PROJECT LOCATION	Inverness, Marin, CA

Piazza Construction is seeking the use of DBE subcontractors and suppliers for the following aspects of the job: concrete, rebar, thermoset powder coated bolted steel tanks, pre-fabricated shed, water pipe and fittings, pipe bedding, trench backfill, shale, electrical conduit and fittings, and bolte d steel tank cathodic protection.

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HOW TO REPLY	
ONLINE	Visit dbegoodfaith.com/respond and enter Solicitation ID 1793834-50422
BY FAX	Fax back this invitation with your response to: (707) 876-3256 <input type="checkbox"/> Yes, we will send a fax quote by the bid date. <input type="checkbox"/> No, we are not interested. <input type="checkbox"/> Interested, but we would like more information. Please contact us at _____.
BY EMAIL	Contact James Piazza at piazzapc02@gmail.com

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INVITATION TO BID

FROM: Piazza Construction
P.O. Box 573
Penngrove, CA 94951
Tel: (707) 876-3410
Fax: (707) 876-3256
piazzapc02@gmail.com
CONTACT NAME: James Piazza

TO: BRAY TRUCKING
Tel: (707) 744-1640
Fax: (707) 744-1630

Piazza Construction is Seeking Qualified DBEs	
PROJECT NAME	Tenney Tank Water Tank Replacements
BID DUE DATE	02/17/2021 at 02:00
BID / PROJECT #	2630.05
AGENCY NAME	Inverness Public Utility District
PROJECT LOCATION	Inverness, Marin, CA

Piazza Construction is seeking the use of DBE subcontractors and suppliers for the following aspects of the job: concrete, rebar, thermoset powder coated bolted steel tanks, pre-fabricated shed, water pipe and fittings, pipe bedding, trench backfill, shale, electrical conduit and fittings, and bolte d steel tank cathodic protection.

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HOW TO REPLY	
ONLINE	Visit dbegoodfaith.com/respond and enter Solicitation ID 1793835-50422
BY FAX	Fax back this invitation with your response to: (707) 876-3256 <input type="checkbox"/> Yes, we will send a fax quote by the bid date. <input type="checkbox"/> No, we are not interested. <input type="checkbox"/> Interested, but we would like more information. Please contact us at _____.
BY EMAIL	Contact James Piazza at piazzapc02@gmail.com

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INVITATION TO BID

FROM: Piazza Construction
P.O. Box 573
Penngrove, CA 94951
Tel: (707) 876-3410
Fax: (707) 876-3256
piazzapc02@gmail.com
CONTACT NAME: James Piazza

TO: CAL-CON PUMPING, LLC
Tel: (415) 401-9838
Fax: (415) 401-7664

Piazza Construction is Seeking Qualified DBEs	
PROJECT NAME	Tenney Tank Water Tank Replacements
BID DUE DATE	02/17/2021 at 02:00
BID / PROJECT #	2630.05
AGENCY NAME	Inverness Public Utility District
PROJECT LOCATION	Inverness, Marin, CA

Piazza Construction is seeking the use of DBE subcontractors and suppliers for the following aspects of the job: concrete, rebar, thermoset powder coated bolted steel tanks, pre-fabricated shed, water pipe and fittings, pipe bedding, trench backfill, shale, electrical conduit and fittings, and bolte d steel tank cathodic protection.

Project documents can be downloaded at the following link: <https://www.dropbox.com/sh/ykfvfpor57zgiyg/AAAzAFecudsXulFCAzGUYLCxa?dl=0> 100% performance and payment bonds may be required. Subcontractor s must possess a valid contractor's license, DIR registration number, and current insurance. Contrac tors and suppliers to provide proof of current DBE certification with proposal. Subcontractor shall take out and maintain during the life of the contract, a Commercial General Liability Policy, with a minimum limit as defined within the contract documents, naming Piazza Construction as additionally insured.

HOW TO REPLY	
ONLINE	Visit dbegoodfaith.com/respond and enter Solicitation ID 1793836-50422
BY FAX	Fax back this invitation with your response to: (707) 876-3256 <input type="checkbox"/> Yes, we will send a fax quote by the bid date. <input type="checkbox"/> No, we are not interested. <input type="checkbox"/> Interested, but we would like more information. Please contact us at _____.
BY EMAIL	Contact James Piazza at piazzapc02@gmail.com

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INVITATION TO BID

FROM: Piazza Construction
 P.O. Box 573
 Penngrove, CA 94951
 Tel: (707) 876-3410
 Fax: (707) 876-3256
 piazzapc02@gmail.com
 CONTACT NAME: James Piazza

TO: CALIFORNIA GRINDING SPECIALTIES, INC. DBA
 AUSTIN ENTERPRISE
 Tel: (661) 589-1001
 Fax: (661) 589-9509

Piazza Construction is Seeking Qualified DBEs	
PROJECT NAME	Tenney Tank Water Tank Replacements
BID DUE DATE	02/17/2021 at 02:00
BID / PROJECT #	2630.05
AGENCY NAME	Inverness Public Utility District
PROJECT LOCATION	Inverness, Marin, CA

Piazza Construction is seeking the use of DBE subcontractors and suppliers for the following aspects of the job: concrete, rebar, thermoset powder coated bolted steel tanks, pre-fabricated shed, water pipe and fittings, pipe bedding, trench backfill, shale, electrical conduit and fittings, and bolte d steel tank cathodic protection.

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HOW TO REPLY	
ONLINE	Visit dbegoodfaith.com/respond and enter Solicitation ID 1793837-50422
BY FAX	Fax back this invitation with your response to: (707) 876-3256 <input type="checkbox"/> Yes, we will send a fax quote by the bid date. <input type="checkbox"/> No, we are not interested. <input type="checkbox"/> Interested, but we would like more information. Please contact us at _____.
BY EMAIL	Contact James Piazza at piazzapc02@gmail.com

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INVITATION TO BID

FROM: Piazza Construction
P.O. Box 573
Penngrove, CA 94951
Tel: (707) 876-3410
Fax: (707) 876-3256
piazzapc02@gmail.com
CONTACT NAME: James Piazza

TO: CENTRAL VALLEY REINFORCING
Tel: (559) 365-0340
Fax: () -

Piazza Construction is Seeking Qualified DBEs	
PROJECT NAME	Tenney Tank Water Tank Replacements
BID DUE DATE	02/17/2021 at 02:00
BID / PROJECT #	2630.05
AGENCY NAME	Inverness Public Utility District
PROJECT LOCATION	Inverness, Marin, CA

Piazza Construction is seeking the use of DBE subcontractors and suppliers for the following aspects of the job: concrete, rebar, thermoset powder coated bolted steel tanks, pre-fabricated shed, water pipe and fittings, pipe bedding, trench backfill, shale, electrical conduit and fittings, and bolte d steel tank cathodic protection.

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HOW TO REPLY	
ONLINE	Visit dbegoodfaith.com/respond and enter Solicitation ID 1793838-50422
BY FAX	Fax back this invitation with your response to: (707) 876-3256 <input type="checkbox"/> Yes, we will send a fax quote by the bid date. <input type="checkbox"/> No, we are not interested. <input type="checkbox"/> Interested, but we would like more information. Please contact us at _____.
BY EMAIL	Contact James Piazza at piazzapc02@gmail.com

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INVITATION TO BID

FROM: Piazza Construction
P.O. Box 573
Penngrove, CA 94951
Tel: (707) 876-3410
Fax: (707) 876-3256
piazzapc02@gmail.com
CONTACT NAME: James Piazza

TO: DISABLED AMERICAN VETERAN ENTERPRISES
TRUCKING & SWEEPING, I
Tel: (559) 370-5756
Fax: (559) 374-6470

Piazza Construction is Seeking Qualified DBEs	
PROJECT NAME	Tenney Tank Water Tank Replacements
BID DUE DATE	02/17/2021 at 02:00
BID / PROJECT #	2630.05
AGENCY NAME	Inverness Public Utility District
PROJECT LOCATION	Inverness, Marin, CA

Piazza Construction is seeking the use of DBE subcontractors and suppliers for the following aspects of the job: concrete, rebar, thermoset powder coated bolted steel tanks, pre-fabricated shed, water pipe and fittings, pipe bedding, trench backfill, shale, electrical conduit and fittings, and bolte d steel tank cathodic protection.

Project documents can be downloaded at the following link: <https://www.dropbox.com/sh/ykfvpor57zgiyg/AAAzAFecudsXulFCAzGUYLCxa?dl=0> 100% performance and payment bonds may be required. Subcontractor s must possess a valid contractor's license, DIR registration number, and current insurance. Contrac tors and suppliers to provide proof of current DBE certification with proposal. Subcontractor shall take out and maintain during the life of the contract, a Commercial General Liability Policy, with a minimum limit as defined within the contract documents, naming Piazza Construction as additionally insured.

HOW TO REPLY	
ONLINE	Visit dbegoodfaith.com/respond and enter Solicitation ID 1793839-50422
BY FAX	Fax back this invitation with your response to: (707) 876-3256 <input type="checkbox"/> Yes, we will send a fax quote by the bid date. <input type="checkbox"/> No, we are not interested. <input type="checkbox"/> Interested, but we would like more information. Please contact us at _____.
BY EMAIL	Contact James Piazza at piazzapc02@gmail.com

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INVITATION TO BID

FROM: Piazza Construction
P.O. Box 573
Penngrove, CA 94951
Tel: (707) 876-3410
Fax: (707) 876-3256
piazzapc02@gmail.com
CONTACT NAME: James Piazza

TO: DOUBLE G'S SUPPLY, INC.
Tel: (530) 902-3058
Fax: (866) 878-2769

Piazza Construction is Seeking Qualified DBEs	
PROJECT NAME	Tenney Tank Water Tank Replacements
BID DUE DATE	02/17/2021 at 02:00
BID / PROJECT #	2630.05
AGENCY NAME	Inverness Public Utility District
PROJECT LOCATION	Inverness, Marin, CA

Piazza Construction is seeking the use of DBE subcontractors and suppliers for the following aspects of the job: concrete, rebar, thermoset powder coated bolted steel tanks, pre-fabricated shed, water pipe and fittings, pipe bedding, trench backfill, shale, electrical conduit and fittings, and bolte d steel tank cathodic protection.

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HOW TO REPLY	
ONLINE	Visit dbegoodfaith.com/respond and enter Solicitation ID 1793840-50422
BY FAX	Fax back this invitation with your response to: (707) 876-3256 <input type="checkbox"/> Yes, we will send a fax quote by the bid date. <input type="checkbox"/> No, we are not interested. <input type="checkbox"/> Interested, but we would like more information. Please contact us at _____.
BY EMAIL	Contact James Piazza at piazzapc02@gmail.com

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INVITATION TO BID

FROM: Piazza Construction
P.O. Box 573
Penngrove, CA 94951
Tel: (707) 876-3410
Fax: (707) 876-3256
piazzapc02@gmail.com
CONTACT NAME: James Piazza

TO: EAGLE ROCK INDUSTRIES
Tel: (925) 524-3004
Fax: (925) 524-3004

Piazza Construction is Seeking Qualified DBEs	
PROJECT NAME	Tenney Tank Water Tank Replacements
BID DUE DATE	02/17/2021 at 02:00
BID / PROJECT #	2630.05
AGENCY NAME	Inverness Public Utility District
PROJECT LOCATION	Inverness, Marin, CA

Piazza Construction is seeking the use of DBE subcontractors and suppliers for the following aspects of the job: concrete, rebar, thermoset powder coated bolted steel tanks, pre-fabricated shed, water pipe and fittings, pipe bedding, trench backfill, shale, electrical conduit and fittings, and bolte d steel tank cathodic protection.

Project documents can be downloaded at the following link: <https://www.dropbox.com/sh/ykfvfpor57zgiyg/AAAzAFecudsXulFCAzGUYLCxa?dl=0> 100% performance and payment bonds may be required. Subcontractors must possess a valid contractor's license, DIR registration number, and current insurance. Contractors and suppliers to provide proof of current DBE certification with proposal. Subcontractor shall take out and maintain during the life of the contract, a Commercial General Liability Policy, with a minimum limit as defined within the contract documents, naming Piazza Construction as additionally insured.

HOW TO REPLY	
ONLINE	Visit dbegoodfaith.com/respond and enter Solicitation ID 1793841-50422
BY FAX	Fax back this invitation with your response to: (707) 876-3256 <input type="checkbox"/> Yes, we will send a fax quote by the bid date. <input type="checkbox"/> No, we are not interested. <input type="checkbox"/> Interested, but we would like more information. Please contact us at _____.
BY EMAIL	Contact James Piazza at piazzapc02@gmail.com

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INVITATION TO BID

FROM: Piazza Construction
 P.O. Box 573
 Penngrove, CA 94951
 Tel: (707) 876-3410
 Fax: (707) 876-3256
 piazzapc02@gmail.com
 CONTACT NAME: James Piazza

TO: G & C EQUIPMENT CORP.
 Tel: (310) 515-6715
 Fax: (310) 515-5046

Piazza Construction is Seeking Qualified DBEs	
PROJECT NAME	Tenney Tank Water Tank Replacements
BID DUE DATE	02/17/2021 at 02:00
BID / PROJECT #	2630.05
AGENCY NAME	Inverness Public Utility District
PROJECT LOCATION	Inverness, Marin, CA

Piazza Construction is seeking the use of DBE subcontractors and suppliers for the following aspects of the job: concrete, rebar, thermoset powder coated bolted steel tanks, pre-fabricated shed, water pipe and fittings, pipe bedding, trench backfill, shale, electrical conduit and fittings, and bolte d steel tank cathodic protection.

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HOW TO REPLY	
ONLINE	Visit dbegoodfaith.com/respond and enter Solicitation ID 1793842-50422
BY FAX	Fax back this invitation with your response to: (707) 876-3256 <input type="checkbox"/> Yes, we will send a fax quote by the bid date. <input type="checkbox"/> No, we are not interested. <input type="checkbox"/> Interested, but we would like more information. Please contact us at _____.
BY EMAIL	Contact James Piazza at piazzapc02@gmail.com

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INVITATION TO BID

FROM: Piazza Construction
P.O. Box 573
Penngrove, CA 94951
Tel: (707) 876-3410
Fax: (707) 876-3256
piazzapc02@gmail.com
CONTACT NAME: James Piazza

TO: GRAND BRIDGE INC
Tel: (559) 433-5919
Fax: () -

Piazza Construction is Seeking Qualified DBEs	
PROJECT NAME	Tenney Tank Water Tank Replacements
BID DUE DATE	02/17/2021 at 02:00
BID / PROJECT #	2630.05
AGENCY NAME	Inverness Public Utility District
PROJECT LOCATION	Inverness, Marin, CA

Piazza Construction is seeking the use of DBE subcontractors and suppliers for the following aspects of the job: concrete, rebar, thermoset powder coated bolted steel tanks, pre-fabricated shed, water pipe and fittings, pipe bedding, trench backfill, shale, electrical conduit and fittings, and bolte d steel tank cathodic protection.

Project documents can be downloaded at the following link: <https://www.dropbox.com/sh/ykfvfpor57zgiyg/AAAzAFecudsXulFCAzGUYLCxa?dl=0> 100% performance and payment bonds may be required. Subcontractor s must possess a valid contractor's license, DIR registration number, and current insurance. Contrac tors and suppliers to provide proof of current DBE certification with proposal. Subcontractor shall take out and maintain during the life of the contract, a Commercial General Liability Policy, with a minimum limit as defined within the contract documents, naming Piazza Construction as additionally insured.

HOW TO REPLY	
ONLINE	Visit dbegoodfaith.com/respond and enter Solicitation ID 1793843-50422
BY FAX	Fax back this invitation with your response to: (707) 876-3256 <input type="checkbox"/> Yes, we will send a fax quote by the bid date. <input type="checkbox"/> No, we are not interested. <input type="checkbox"/> Interested, but we would like more information. Please contact us at _____.
BY EMAIL	Contact James Piazza at piazzapc02@gmail.com

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INVITATION TO BID

FROM: Piazza Construction
P.O. Box 573
Penngrove, CA 94951
Tel: (707) 876-3410
Fax: (707) 876-3256
piazzapc02@gmail.com
CONTACT NAME: James Piazza

TO: GSJ UTILITY SUPPLY & SERVICE
Tel: (562) 404-1113
Fax: (888) 356-1250

Piazza Construction is Seeking Qualified DBEs	
PROJECT NAME	Tenney Tank Water Tank Replacements
BID DUE DATE	02/17/2021 at 02:00
BID / PROJECT #	2630.05
AGENCY NAME	Inverness Public Utility District
PROJECT LOCATION	Inverness, Marin, CA

Piazza Construction is seeking the use of DBE subcontractors and suppliers for the following aspects of the job: concrete, rebar, thermoset powder coated bolted steel tanks, pre-fabricated shed, water pipe and fittings, pipe bedding, trench backfill, shale, electrical conduit and fittings, and bolte d steel tank cathodic protection.

Project documents can be downloaded at the following link: <https://www.dropbox.com/sh/ykfvfpor57zgiyg/AAAzAFecudsXulFCAzGUYLCxa?dl=0> 100% performance and payment bonds may be required. Subcontractors must possess a valid contractor's license, DIR registration number, and current insurance. Contractors and suppliers to provide proof of current DBE certification with proposal. Subcontractor shall take out and maintain during the life of the contract, a Commercial General Liability Policy, with a minimum limit as defined within the contract documents, naming Piazza Construction as additionally insured.

HOW TO REPLY	
ONLINE	Visit dbegoodfaith.com/respond and enter Solicitation ID 1793844-50422
BY FAX	Fax back this invitation with your response to: (707) 876-3256 <input type="checkbox"/> Yes, we will send a fax quote by the bid date. <input type="checkbox"/> No, we are not interested. <input type="checkbox"/> Interested, but we would like more information. Please contact us at _____.
BY EMAIL	Contact James Piazza at piazzapc02@gmail.com

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INVITATION TO BID

FROM: Piazza Construction
P.O. Box 573
Penngrove, CA 94951
Tel: (707) 876-3410
Fax: (707) 876-3256
piazzapc02@gmail.com
CONTACT NAME: James Piazza

TO: IMPERIAL ELECTRIC SERVICE
Tel: (559) 374-6484
Fax: () -

Piazza Construction is Seeking Qualified DBEs	
PROJECT NAME	Tenney Tank Water Tank Replacements
BID DUE DATE	02/17/2021 at 02:00
BID / PROJECT #	2630.05
AGENCY NAME	Inverness Public Utility District
PROJECT LOCATION	Inverness, Marin, CA

Piazza Construction is seeking the use of DBE subcontractors and suppliers for the following aspects of the job: concrete, rebar, thermoset powder coated bolted steel tanks, pre-fabricated shed, water pipe and fittings, pipe bedding, trench backfill, shale, electrical conduit and fittings, and bolte d steel tank cathodic protection.

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HOW TO REPLY	
ONLINE	Visit dbegoodfaith.com/respond and enter Solicitation ID 1793845-50422
BY FAX	Fax back this invitation with your response to: (707) 876-3256 <input type="checkbox"/> Yes, we will send a fax quote by the bid date. <input type="checkbox"/> No, we are not interested. <input type="checkbox"/> Interested, but we would like more information. Please contact us at _____.
BY EMAIL	Contact James Piazza at piazzapc02@gmail.com

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INVITATION TO BID

FROM: Piazza Construction
P.O. Box 573
Penngrove, CA 94951
Tel: (707) 876-3410
Fax: (707) 876-3256
piazzapc02@gmail.com
CONTACT NAME: James Piazza

TO: K & G CONCRETE INC
Tel: (916) 774-0287
Fax: (866) 878-2769

Piazza Construction is Seeking Qualified DBEs	
PROJECT NAME	Tenney Tank Water Tank Replacements
BID DUE DATE	02/17/2021 at 02:00
BID / PROJECT #	2630.05
AGENCY NAME	Inverness Public Utility District
PROJECT LOCATION	Inverness, Marin, CA

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HOW TO REPLY	
ONLINE	Visit dbegoodfaith.com/respond and enter Solicitation ID 1793846-50422
BY FAX	Fax back this invitation with your response to: (707) 876-3256 <input type="checkbox"/> Yes, we will send a fax quote by the bid date. <input type="checkbox"/> No, we are not interested. <input type="checkbox"/> Interested, but we would like more information. Please contact us at _____.
BY EMAIL	Contact James Piazza at piazzapc02@gmail.com

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INVITATION TO BID

FROM: Piazza Construction
P.O. Box 573
Penngrove, CA 94951
Tel: (707) 876-3410
Fax: (707) 876-3256
piazzapc02@gmail.com
CONTACT NAME: James Piazza

TO: K R C SAFETY CO. INC.
Tel: (559) 732-0393
Fax: (559) 732-2684

Piazza Construction is Seeking Qualified DBEs	
PROJECT NAME	Tenney Tank Water Tank Replacements
BID DUE DATE	02/17/2021 at 02:00
BID / PROJECT #	2630.05
AGENCY NAME	Inverness Public Utility District
PROJECT LOCATION	Inverness, Marin, CA

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HOW TO REPLY	
ONLINE	Visit dbegoodfaith.com/respond and enter Solicitation ID 1793847-50422
BY FAX	Fax back this invitation with your response to: (707) 876-3256 <input type="checkbox"/> Yes, we will send a fax quote by the bid date. <input type="checkbox"/> No, we are not interested. <input type="checkbox"/> Interested, but we would like more information. Please contact us at _____.
BY EMAIL	Contact James Piazza at piazzapc02@gmail.com

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INVITATION TO BID

FROM: Piazza Construction
P.O. Box 573
Penngrove, CA 94951
Tel: (707) 876-3410
Fax: (707) 876-3256
piazzapc02@gmail.com
CONTACT NAME: James Piazza

TO: MAS METALS
Tel: (510) 259-1426
Fax: (510) 259-1476

Piazza Construction is Seeking Qualified DBEs	
PROJECT NAME	Tenney Tank Water Tank Replacements
BID DUE DATE	02/17/2021 at 02:00
BID / PROJECT #	2630.05
AGENCY NAME	Inverness Public Utility District
PROJECT LOCATION	Inverness, Marin, CA

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HOW TO REPLY	
ONLINE	Visit dbegoodfaith.com/respond and enter Solicitation ID 1793848-50422
BY FAX	Fax back this invitation with your response to: (707) 876-3256 <input type="checkbox"/> Yes, we will send a fax quote by the bid date. <input type="checkbox"/> No, we are not interested. <input type="checkbox"/> Interested, but we would like more information. Please contact us at _____.
BY EMAIL	Contact James Piazza at piazzapc02@gmail.com

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INVITATION TO BID

FROM: Piazza Construction
P.O. Box 573
Penngrove, CA 94951
Tel: (707) 876-3410
Fax: (707) 876-3256
piazzapc02@gmail.com
CONTACT NAME: James Piazza

TO: NITTA EROSION CONTROL
Tel: (916) 652-7459
Fax: (916) 652-4376

Piazza Construction is Seeking Qualified DBEs	
PROJECT NAME	Tenney Tank Water Tank Replacements
BID DUE DATE	02/17/2021 at 02:00
BID / PROJECT #	2630.05
AGENCY NAME	Inverness Public Utility District
PROJECT LOCATION	Inverness, Marin, CA

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HOW TO REPLY	
ONLINE	Visit dbegoodfaith.com/respond and enter Solicitation ID 1793849-50422
BY FAX	Fax back this invitation with your response to: (707) 876-3256 <input type="checkbox"/> Yes, we will send a fax quote by the bid date. <input type="checkbox"/> No, we are not interested. <input type="checkbox"/> Interested, but we would like more information. Please contact us at _____.
BY EMAIL	Contact James Piazza at piazzapc02@gmail.com

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INVITATION TO BID

FROM: Piazza Construction
P.O. Box 573
Penngrove, CA 94951
Tel: (707) 876-3410
Fax: (707) 876-3256
piazzapc02@gmail.com
CONTACT NAME: James Piazza

TO: NUNEZ PRECISION WELDING, INC
Tel: (408) 263-9503
Fax: (408) 263-9506

Piazza Construction is Seeking Qualified DBEs	
PROJECT NAME	Tenney Tank Water Tank Replacements
BID DUE DATE	02/17/2021 at 02:00
BID / PROJECT #	2630.05
AGENCY NAME	Inverness Public Utility District
PROJECT LOCATION	Inverness, Marin, CA

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HOW TO REPLY	
ONLINE	Visit dbegoodfaith.com/respond and enter Solicitation ID 1793850-50422
BY FAX	Fax back this invitation with your response to: (707) 876-3256 <input type="checkbox"/> Yes, we will send a fax quote by the bid date. <input type="checkbox"/> No, we are not interested. <input type="checkbox"/> Interested, but we would like more information. Please contact us at _____.
BY EMAIL	Contact James Piazza at piazzapc02@gmail.com

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INVITATION TO BID

FROM: Piazza Construction
P.O. Box 573
Penngrove, CA 94951
Tel: (707) 876-3410
Fax: (707) 876-3256
piazzapc02@gmail.com
CONTACT NAME: James Piazza

TO: NUNO IRON & MFG, INC
Tel: (831) 386-0513
Fax: (831) 386-9976

Piazza Construction is Seeking Qualified DBEs	
PROJECT NAME	Tenney Tank Water Tank Replacements
BID DUE DATE	02/17/2021 at 02:00
BID / PROJECT #	2630.05
AGENCY NAME	Inverness Public Utility District
PROJECT LOCATION	Inverness, Marin, CA

Piazza Construction is seeking the use of DBE subcontractors and suppliers for the following aspects of the job: concrete, rebar, thermoset powder coated bolted steel tanks, pre-fabricated shed, water pipe and fittings, pipe bedding, trench backfill, shale, electrical conduit and fittings, and bolte d steel tank cathodic protection.

Project documents can be downloaded at the following link: <https://www.dropbox.com/sh/ykfvfpor57zgiyg/AAAzAFecudsXulFCAzGUYLCxa?dl=0> 100% performance and payment bonds may be required. Subcontractors must possess a valid contractor's license, DIR registration number, and current insurance. Contractors and suppliers to provide proof of current DBE certification with proposal. Subcontractor shall take out and maintain during the life of the contract, a Commercial General Liability Policy, with a minimum limit as defined within the contract documents, naming Piazza Construction as additionally insured.

HOW TO REPLY	
ONLINE	Visit dbegoodfaith.com/respond and enter Solicitation ID 1793851-50422
BY FAX	Fax back this invitation with your response to: (707) 876-3256 <input type="checkbox"/> Yes, we will send a fax quote by the bid date. <input type="checkbox"/> No, we are not interested. <input type="checkbox"/> Interested, but we would like more information. Please contact us at _____.
BY EMAIL	Contact James Piazza at piazzapc02@gmail.com

This solicitation was generated and sent on behalf of Piazza Construction at 02/04/2021 12:09:02 pm Pacific through the DBEGoodFaith.com outreach platform.

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INVITATION TO BID

FROM: Piazza Construction
P.O. Box 573
Penngrove, CA 94951
Tel: (707) 876-3410
Fax: (707) 876-3256
piazzapc02@gmail.com
CONTACT NAME: James Piazza

TO: PVF SALES
Tel: (562) 623-9999
Fax: (562) 623-0909

Piazza Construction is Seeking Qualified DBEs	
PROJECT NAME	Tenney Tank Water Tank Replacements
BID DUE DATE	02/17/2021 at 02:00
BID / PROJECT #	2630.05
AGENCY NAME	Inverness Public Utility District
PROJECT LOCATION	Inverness, Marin, CA

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HOW TO REPLY	
ONLINE	Visit dbegoodfaith.com/respond and enter Solicitation ID 1793852-50422
BY FAX	Fax back this invitation with your response to: (707) 876-3256 <input type="checkbox"/> Yes, we will send a fax quote by the bid date. <input type="checkbox"/> No, we are not interested. <input type="checkbox"/> Interested, but we would like more information. Please contact us at _____.
BY EMAIL	Contact James Piazza at piazzapc02@gmail.com

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INVITATION TO BID

FROM: Piazza Construction
 P.O. Box 573
 Penngrove, CA 94951
 Tel: (707) 876-3410
 Fax: (707) 876-3256
 piazzapc02@gmail.com
 CONTACT NAME: James Piazza

TO: RCJ & ASSOCIATES, INC
 Tel: (916) 399-4852
 Fax: (916) 399-4853

Piazza Construction is Seeking Qualified DBEs	
PROJECT NAME	Tenney Tank Water Tank Replacements
BID DUE DATE	02/17/2021 at 02:00
BID / PROJECT #	2630.05
AGENCY NAME	Inverness Public Utility District
PROJECT LOCATION	Inverness, Marin, CA

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HOW TO REPLY	
ONLINE	Visit dbegoodfaith.com/respond and enter Solicitation ID 1793853-50422
BY FAX	Fax back this invitation with your response to: (707) 876-3256 <input type="checkbox"/> Yes, we will send a fax quote by the bid date. <input type="checkbox"/> No, we are not interested. <input type="checkbox"/> Interested, but we would like more information. Please contact us at _____.
BY EMAIL	Contact James Piazza at piazzapc02@gmail.com

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INVITATION TO BID

FROM: Piazza Construction
P.O. Box 573
Penngrove, CA 94951
Tel: (707) 876-3410
Fax: (707) 876-3256
piazzapc02@gmail.com
CONTACT NAME: James Piazza

TO: SASS INDUSTRIES INC DBA SAICAD
Tel: (408) 506-6097
Fax: () -

Piazza Construction is Seeking Qualified DBEs	
PROJECT NAME	Tenney Tank Water Tank Replacements
BID DUE DATE	02/17/2021 at 02:00
BID / PROJECT #	2630.05
AGENCY NAME	Inverness Public Utility District
PROJECT LOCATION	Inverness, Marin, CA

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HOW TO REPLY	
ONLINE	Visit dbegoodfaith.com/respond and enter Solicitation ID 1793854-50422
BY FAX	Fax back this invitation with your response to: (707) 876-3256 <input type="checkbox"/> Yes, we will send a fax quote by the bid date. <input type="checkbox"/> No, we are not interested. <input type="checkbox"/> Interested, but we would like more information. Please contact us at _____.
BY EMAIL	Contact James Piazza at piazzapc02@gmail.com

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INVITATION TO BID

FROM: Piazza Construction
P.O. Box 573
Penngrove, CA 94951
Tel: (707) 876-3410
Fax: (707) 876-3256
piazzapc02@gmail.com
CONTACT NAME: James Piazza

TO: SILVER CREEK ELECTRIC, INC.
Tel: (408) 321-9094
Fax: (408) 321-9329

Piazza Construction is Seeking Qualified DBEs	
PROJECT NAME	Tenney Tank Water Tank Replacements
BID DUE DATE	02/17/2021 at 02:00
BID / PROJECT #	2630.05
AGENCY NAME	Inverness Public Utility District
PROJECT LOCATION	Inverness, Marin, CA

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HOW TO REPLY	
ONLINE	Visit dbegoodfaith.com/respond and enter Solicitation ID 1793855-50422
BY FAX	Fax back this invitation with your response to: (707) 876-3256 <input type="checkbox"/> Yes, we will send a fax quote by the bid date. <input type="checkbox"/> No, we are not interested. <input type="checkbox"/> Interested, but we would like more information. Please contact us at _____.
BY EMAIL	Contact James Piazza at piazzapc02@gmail.com

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INVITATION TO BID

FROM: Piazza Construction
P.O. Box 573
Penngrove, CA 94951
Tel: (707) 876-3410
Fax: (707) 876-3256
piazzapc02@gmail.com
CONTACT NAME: James Piazza

TO: SOUTH EAST ELECTRICAL CONTRACTOR
Tel: (415) 574-6582
Fax: () -

Piazza Construction is Seeking Qualified DBEs	
PROJECT NAME	Tenney Tank Water Tank Replacements
BID DUE DATE	02/17/2021 at 02:00
BID / PROJECT #	2630.05
AGENCY NAME	Inverness Public Utility District
PROJECT LOCATION	Inverness, Marin, CA

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HOW TO REPLY	
ONLINE	Visit dbegoodfaith.com/respond and enter Solicitation ID 1793856-50422
BY FAX	Fax back this invitation with your response to: (707) 876-3256 <input type="checkbox"/> Yes, we will send a fax quote by the bid date. <input type="checkbox"/> No, we are not interested. <input type="checkbox"/> Interested, but we would like more information. Please contact us at _____.
BY EMAIL	Contact James Piazza at piazzapc02@gmail.com

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INVITATION TO BID

FROM: Piazza Construction
 P.O. Box 573
 Penngrove, CA 94951
 Tel: (707) 876-3410
 Fax: (707) 876-3256
 piazzapc02@gmail.com
 CONTACT NAME: James Piazza

TO: WEST PACIFIC ELECTRIC COMPANY
 Tel: (559) 924-6422
 Fax: (559) 924-4826

Piazza Construction is Seeking Qualified DBEs	
PROJECT NAME	Tenney Tank Water Tank Replacements
BID DUE DATE	02/17/2021 at 02:00
BID / PROJECT #	2630.05
AGENCY NAME	Inverness Public Utility District
PROJECT LOCATION	Inverness, Marin, CA

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HOW TO REPLY	
ONLINE	Visit dbegoodfaith.com/respond and enter Solicitation ID 1793857-50422
BY FAX	Fax back this invitation with your response to: (707) 876-3256 <input type="checkbox"/> Yes, we will send a fax quote by the bid date. <input type="checkbox"/> No, we are not interested. <input type="checkbox"/> Interested, but we would like more information. Please contact us at _____.
BY EMAIL	Contact James Piazza at piazzapc02@gmail.com

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**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's² 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 Piazza Construction		Project Name Tenney Tank Site Water Tank Replacements	
Bid / Proposal No.	Assistance Agreement ID No. (if known)	Point of Contact James Piazza	
Address PO Box 573, Penngrove, CA 94951			
Telephone No. 707-876-3410		Email Address piazzapc02@gmail.com	
Issuing/Funding Entity			

I have identified potential DBE certified subcontractors. YES NO

If yes, please complete the table below. If no, please explain:

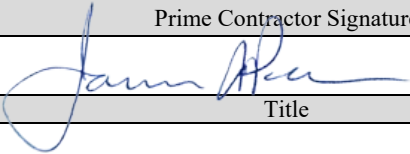
Subcontractor Name/ Company Name	Company Address / Phone / Email	Estimated Dollar Amount	Currently DBE Certified?
Superior Tank Company, Inc.	19436 Colombo Street, Bakersfield, CA 93308	161,972	Yes

--Continue on back if needed--

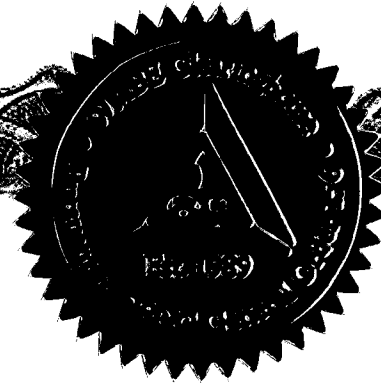
¹ A DBE is a Disadvantaged, Minority, or Woman Business Enterprise that has been certified by an entity from which EPA accepts certifications as described in 40 CFR 33.204-33.2015 or certified by EPA. EPA accepts certifications from entities that meet or exceed EPA certification standards as described 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
	James A. Piazza
Title	Date
owner	2/19/2021

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.



***SUPPLIER CLEARINGHOUSE
CERTIFICATE OF ELIGIBILITY***

CERTIFICATION EXPIRATION DATE: **May 16, 2022**

The Supplier Clearinghouse for the Utility Supplier Diversity Program of the California Public Utilities Commission hereby certifies that it has audited and verified the eligibility of:

***Superior Tank Co., Inc.
Minority Business Enterprise (MBE)***

pursuant to Commission General Order 156, and the terms and conditions stipulated in the Verification Application Package. This Certificate shall be valid only with the Clearinghouse seal affixed hereto.

Eligibility must be maintained at all times, and renewed within 30 days of any changes in ownership or control. Failure to comply may result in a denial of eligibility. The Clearinghouse may reconsider certification if it is determined that such status was obtained by false, misleading or incorrect information. Decertification may occur if any verification criterion under which eligibility was awarded later becomes invalid due to Commission ruling. The Clearinghouse may request additional information or conduct on- site visits during the term of verification to verify eligibility.

This certification is valid only for the period that the above firm remains eligible as determined by the Clearinghouse. Utility companies may direct inquiries concerning this Certificate to the Clearinghouse at (800) 359-7998 in Los Angeles.

VON: 3JS00005

DETERMINATION DATE: May 16, 2019



Inverness Public Utility District
Board Meeting February 24, 2021

Agenda Item No. 3

Inverness Foundation Survey on Proposed Parcel Tax Initiative Ordinance

- **Presentation by Jerry Meral and Kathy Hartzell of the Inverness Foundation**
- **Staff Report on its analysis of the proposed ordinance.**
- **Public Comments (Comments may be time limited, at the discretion of the President).**
- **Questions/comments by the Directors**



Board Agenda Item Staff Report

Subject: Inverness Foundation Survey Letter: Proposed Parcel Tax Initiative Within the IPUD for Fire Protection
Meeting Date: February 24, 2021
Date Prepared: February 18, 2021
Prepared by: Shelley Redding, Administrator; Wade Holland, Customer Services Manager

Recommended Action: Information item only; staff recommends that the Board thank the proponents for their efforts in bringing many important issues into public view, but otherwise the Board should take no action (and should avoid stating a position on the proposed initiative ordinance).

The attached survey letter from the Inverness Foundation has been received by many members of the community. The survey solicits voters' opinions on a proposed initiative to enact an ordinance setting a parcel tax within the IPUD. The proposed tax would provide funds to the IPUD for a specific set of fire protection and water conservation programs.

Over the past several months, the District's staff has responded on several occasions to inquiries from community member Jerry Meral for publicly available information on a number of topics related to the following programs that are listed in the IF's survey letter:

- 1) A water conservation program of leak detection and replacing leaky wooden water storage tanks
- 2) Replacement of antiquated and leaky pipelines and distribution systems
- 3) Cost sharing for removal of dead and hazardous trees
- 4) Add 100,000 gallons of new water storage
- 5) ONE THIRD of the cost of fuel control and ecological restoration on lands immediately adjacent to Inverness in Tomales Bay State Park and Point Reyes National Seashore.

It needs to be emphasized that the survey paints a broad-brush overview of a set of potential programs that, presumably, would be fleshed out in specific detail in an ordinance that would be part of an initiative petition on which voters' signatures would be solicited. If the required number of valid signatures are obtained, your Board would be obligated to place the initiative on the ballot. The initiative ordinance that the electorate would then vote on would have to be exactly identical to the version that appeared on the petitions that people signed; the District would be unable to change the proposed ordinance in any way.

Moreover, if such an initiative ordinance were to be approved by the voters, it would constitute a set of mandates that the District would be obligated to implement. It is to be hoped that such an ordinance would be drafted in a manner that provides the District with a reasonable degree of program implementation flexibility, giving some leeway to the District to adapt implementation specifics so as to maximize compliance with the overarching goals of the mandated programs rather than to be constrained by overly specific programmatic details.

Staff also has concerns about some legal issues (which it will present during the meeting).

Staff recommends that this agenda item be conducted as follows:

- Presentation by the proponents
- Staff report on its analysis of the proposed ordinance
- Public comments (comments may be time limited, at the discretion of the President)
- Questions/comments by the Directors



January 5, 2021

Dear Wade & Michael,

We don't want Inverness to be like the town of Paradise, which was ravaged by the Camp Fire. We also don't want repeated water shortages, especially during the fall fire season, as the climate changes.

The Inverness Public Utility District (IPUD) provides water and fire protection services to our community. It is managed by an elected Board of Directors consisting of Inverness residents.

IPUD faces increasing water shortages for water supply and fire protection in late summer and autumn due to rising temperatures, drought, and reduced summer fog. IPUD does not have the funds to build new storage.

Much of IPUD's water distribution system was installed 70 to 80 years ago, and leaks have developed. IPUD needs to finance a leak detection and correction program but does not have the funds to do so.

Our community is at greater risk of fire due to drought, higher temperatures and reduced fog. Dead and dying trees are present throughout Inverness. Tomales Bay State Park is full of dead and dying trees and great piles of dead brush and leaf litter. It is a huge fire hazard for Inverness, and needs substantial ecological restoration. The same is true of the State Park property on the west side of Inverness. A fuel break was created in 2006 along the State Park boundary with Seahaven, but it was not maintained and has grown back. State Parks has not budgeted funds to correct these problems. If local matching funds were available, it would move us up on the State Parks priority list. IPUD has no funds available to solve these problems.

Our allocation from the recently passed county fire funding measure is very small, since we are a tiny part of the county. The county funds are not nearly enough to cure our fire problems, and cannot be used for water supply purposes.

The Inverness Association is considering sponsoring a parcel tax ballot measure to address these problems. We would like to know your willingness to support such a measure. A parcel tax is based on the size of your home, not your property. The parcel tax would stay in place for 10 years, and then be reduced to simply maintain the water system, and preserve the areas where vegetation has been controlled.

If IPUD is allowed to provide an exemption for low-income people, would you support a 10 year parcel tax if it cost a 1700 square foot house \$340 per year (20 cents per square foot) and funds the following programs:

- A water conservation program of leak detection and replacing leaky wooden water storage tanks
- Replacement of antiquated and leaky pipelines and distribution systems
- Cost sharing for removal of dead and hazard trees
- Add 100,000 gallons of new water storage (a 25% increase in water system storage)
- **ONE THIRD** of the cost of fuel control and ecological restoration on lands immediately adjacent to Inverness in Tomales Bay State Park and Point Reyes National Seashore.

Would you support this parcel tax of 20 cents per square foot if it paid for these programs?

yes _____ no _____ not sure _____

A parcel tax of 30 cents per square foot (\$510 a year for a 1700 square foot house) would provide enough funds over 10 years for the same programs as above, but would provide sufficient funds to pay for **ALL** the costs of fuel control and ecological restoration on lands adjacent to Inverness in Tomales Bay State Park and Point Reyes National Seashore.

Would you support this parcel tax of 30 cents per square foot?

yes _____ no _____ not sure _____

If IPUD provided a 50% cost share for the following programs, would you consider implementing them at your home:

Installing a rainwater or greywater water storage system which could be used for irrigation Yes__ No__

Replacing inefficient toilets, showerheads, washing machines, and dishwashers Yes__ No__

Detecting leaks in your home water system Yes__ No__

Finding leaks and increasing efficiency in your drip irrigation system Yes__ No__

Removing dead trees from your property Yes__ No__

Adding 5000 gallons of water storage at your home for fire protection. A used 5000 gallon tank costs about \$2300, plus installation Yes__ No__

Comments or ideas?

Name _____

Thanks for participating in this survey.



Kathy Hartzell, President
Inverness Foundation

(you can support the work of the Inverness Foundation at www.invernessassociation.org)

Questions: call Jerry Meral, IF board member, at 415-717-8412 or email jerrymeral@gmail.com

Point Reyes Light

Inverness scopes tax for fire, drought preparedness

By

Anna Guth

01/20/2021

The smoke from the Woodward Fire was still lingering in the air when a group of Inverness residents decided that the village's immediate needs related to wildfire prevention and water storage would require a new funding source. In a survey launched this month, residents are weighing in on whether they would support a new parcel tax that the Inverness Association hopes to sponsor.

"The biggest driver of this is climate change," said Jerry Meral, who sits on the association's board and had the idea for the tax. "Look, we have had almost no rain halfway through January, and that's true throughout the whole Pacific Southwest, it's not just Inverness. And so I think we need to be ready—to be ready with our water supply and to fight the fires we all know are getting more and more frequent. Now whether the Inverness voters share that view, I guess we will find out."

The Inverness Foundation, which shares a board with the association, is spearheading the initiative and wrote the survey. It outlines five possible projects that would make use of a new batch of funds, including a handful that would improve Inverness Public Utility District infrastructure to mitigate the impacts of drought. Another proposed project is to cover a third of the estimated cost of fuel control and ecological restoration on the federal and state lands immediately adjacent to Inverness, including in the Tomales Bay State Park and the Point Reyes National Seashore.

Should Inverness residents show support for the idea, a ballot measure could appear as early as August. The survey proposes two options for a parcel tax, with some exclusions for low-income residents. The first option, which would cost 20 cents per square foot and last for a decade, would mean the owner of a 1,700-square-foot house would pay \$340 a year. The second, which would exact 30 cents per square foot for the same duration, would cost the same homeowner \$510 per year.

The funds for water-related projects and some fire projects would go to the utility district, which manages the village's water system and volunteer fire department with a budget of \$1 million.

In its survey, the Inverness Foundation lists creating an additional 100,000 gallons of water storage as a priority. IPUD, which pulls water from the streams and creeks that run down from the Inverness Ridge, has been hit hard by the current drought. The district has minimal storage capacity, turning over all the water in its existing storage tanks every three days.

After experiencing the driest year in its 40 years of water management, the district declared a water shortage emergency last summer. It has since rolled back some of the conservation measures after seeing a reduction in use and receiving some rain, but rainfall since last July is still only 38 percent of normal.

The proposed additional 100,000 gallons in storage would amount to a 25 percent increase over IPUD's current capacity. Wade Holland, the district's customer services manager, said ideally Inverness should have a water storage capacity of a million gallons—far larger than its existing 440,000-gallon capacity.

The Inverness Foundation also hopes the parcel tax could fund a new leak detection program and the replacement of leaking and aging infrastructure. The district currently estimates that around 15 to 20 percent of its water is lost in part due to tank and distribution system leaks, Mr. Holland said.

There are 10 tanks in the system: Half are redwood, and they leak, and the other half are newer steel tanks. IPUD is in the process of replacing the two key tanks in the system with steel, with help from a state grant.

The distribution system is also a mix of old and new. In the last four decades, IPUD has upgraded and replaced 60 percent of the system with PVC pipe; the rest was built with asbestos concrete before 1980.

IPUD board members will discuss their opinions on the idea of a parcel tax on Feb. 24.

The fourth project the parcel tax would target is the removal of dead and hazardous trees throughout Inverness. And lastly, the parcel tax proposes to cover a third of the estimated cost of fuel control and ecological restoration on the state and federal lands adjacent to Inverness.

Kathy Hartzel, the board president of the Inverness Foundation, said new county wildfire initiatives—such as the Marin Wildfire Prevention Authority, funded by Measure C—were promising, but it wasn't enough. "The concept [for the parcel tax came up] because of the brutal truth that the funds for the needed fire protection measures—be they fuel reduction or work on an evacuation route or expanding water capacity or any number of things that fall into those categories—are not going to be coming down the pike to us in all likelihood through some of the measures providing funding," she said.

Marin County Fire recently allocated some of its Measure C monies to reestablish an overgrown fuel break that runs along the boundary between Seahaven and Tomales Bay State Park, but only committed to tackling roughly a third of the footprint. The hope is that having a source of local funds would help move projects such as the break higher up on priority lists for state and federal land managers.

For Seahaven homeowner Gray Brechin, a historical geographer, completing the fuel break is essential. Mr. Brechin favors the higher, 30-cent parcel tax option.

“In the short term, the fuel break must be completed from Tomales Bay to Sir Frances Drake before the next fire season,” he wrote to the Light. “If that means the community pooling capital to complete the work and waivers granted for it, so be it, because the need is urgent. In the longer term, Inverness needs a comprehensive plan to build and maintain the kind of fire levees that could be a model for the rest of the state. To do less risks losing everything we love about this place, including our lives.”

According to the survey, the 30-cent parcel tax would be able to cover the entirety, versus just a third, of the estimated funds for fuel control and ecological restoration on the lands adjacent to Inverness.

Inverness resident Francine Allen is uncertain whether the tax is the right solution. She understands the financial burden for homeowners, and said that more information would help her make up her mind.

“How did the [Inverness Foundation] come to this figure for a 10-year parcel tax? Is there a budget for how IPUD would spend this money? How are the priorities determined? Where is the oversight?” Ms. Allen asked.

The foundation plans to publicize the results of the survey.

Wade Holland

From: Wade Holland <wade@horizoncable.com>
Sent: Monday, January 25, 2021 12:49 PM
To: Wade Holland
Subject: Fw: story in Light

Wade B. Holland
PO Box 87
Inverness CA 94937

From: Gerald Meral
Sent: Thursday, January 21, 2021 8:57 AM
To: Wade Holland
Subject: story in Light

Hi Wade

I think the story in the Light came out OK. No one said anything really negative. Even Francine's comments were reasonable. (She has not returned her survey).

Although returns still only represent a fraction of the voters (and none of the second home owners, who were not surveyed). I am impressed by the number of people interested in installing 5000 gallons of storage (if not more). There is interest in graywater, rainwater, and (presumably) treated water storage. 27 people so far (about half) have indicated an interest in cost sharing 5000 gallons of storage.

I saw your comment about Inverness needing 1m gallons of storage. It would only take 100 people adding 5000 gallons of storage to provide .5m gallons of storage, if IPUD can find a way to use the local storage. IPUD would have to find a way to integrate these 100 tanks into the IPUD system, and fill them with treated water. The customer would have to pay for the initial fill, but IPUD could manage the installation process, which is permit heavy. The question is how that storage could be managed, and drinking water quality maintained. It would presumably be quite easy to install remote monitoring and control, and simply automatically turn off the meter, and have the homeowner switch over to the stored water. This would probably have to be done often enough so that the quality of the stored water was still usable for human consumption purposes. Expensive, but still a lot cheaper than trying to locate and pay for 500,000 gallons worth of storage tanks at 100,000 gallons each.

Even if the homeowner prefers to use stored rainwater for irrigation (as Phil does), it would still dramatically reduce demand. Not gallon for gallon, but a lot.

As Phil Jonik has done, the outlet to the tank would be fitted for fire department use, so the tanks would also provide fire protection.

If this idea is not completely impractical, I am willing to explore this technology if it is of interest. Britt Stitt is probably willing to help: he has done water storage tanks of a million gallons and more.

Woodacre did a mass storage buy for homeowners some years ago. They did not manage installation, since it was not for treated water. (Phil told me about this.)

Let's discuss.

Jerry

Ps: this idea appeals to me, since it takes advantage of homeowner interest in distributed generation and storage, which is reflected in all the new solar/battery combinations that are going in all over Inverness.

—
Jerry Meral
jerrymeral@gmail.com
415-717-8412

██████████

Thanks for your email about the proposed IPUD parcel tax. Here are some answers to your questions:

IA Q&A: The tax-deductible Inverness Foundation is investigating the possibility of putting this measure on the ballot through the initiative process.

Initiatives are considered “Lobbying,” for which 501c3’s are limited, so I assume you have checked to make sure that the effort will qualify under the IRS limits. Conversely, if this goes the parcel tax way, I believe it requires a super-majority of **parcel owners** to get on the ballot and then a super-majority of **Inverness voters** to pass. You have only surveyed voters. Of course, if the number of approving voters is also adequate to qualify as the needed number of parcel owners, then you’re good to go, but I suspect the overlap between these two categories is not sufficient.

As an initiative 10% of the voters will have to sign a petition to place it on the ballot. They must be voters in IPUD, not just parcel owners. (You may be thinking of the protest procedure under Prop. 218, Government Code Section 53753. This does not apply to voter-initiated measures.) As a voter initiative, based on the relatively recent decision of the 1st DCA, which was not taken up on appeal by the California Supreme Court, the measure only needs a majority vote of the voters to pass. Parcel owners not registered to vote in IPUD cannot vote on the measure.

Thanks to an IRS ruling some years ago solicited by Silk, Adler and Colin, initiative research (including surveys and drafting) are an allowable activity for 501(C)(3) activity. Furthermore, based on this ruling, these organizations can spend up to 20% of their budget on initiative election activity, once the initiative has qualified for the ballot. This is because initiative activity is considered “direct legislative lobbying”, since the voters are considered to be the legislative body.

However, the Inverness Foundation will cease its activity on this subject once the initiative is filed with IPUD. At that point, the Inverness Association will assume responsibility for signature gathering and the campaign to pass the measure.

We are consulting with attorneys specializing in both election law and nonprofit law to confirm this information.

IA Q&A: “The measure would also help pay for dead tree removal both on the private property and adjoining public lands.”

The measure should not pay to remove dangerous and dead trees on private property...that is the responsibility of the parcel owner and I believe the County Fire Dept has the authority to require the owner to mitigate that danger. Parcel owners who take good care of their trees shouldn't have to pay for other parcel owners who don't.

If the County actually ordered people to remove dead trees, this part of the measure would not be necessary. But to our knowledge, the county has never taken this action in Inverness. Second homeowners often neglect to remove these dangerous trees. Apparently, some motivation to do so would be helpful. Also, there are some lower income property owners in Inverness who cannot afford to remove these trees. This funding source can help them do so.

IA Q&A “Additional water storage for summer water shortages and firefighting.”

I don't believe IPUD has a water shortage...instead it has a landscaping surplus. Thus the measure should not pay for additional water storage capacity. I believe that if IPUD looks at winter water use per household that use water in the winter and project that figure onto all households (to account for summer only residents), then the difference will roughly be landscape water. Again, a parcel owner with no or xeric landscaping shouldn't have to pay to water a rose garden on someone else's parcel. Instead, the amortized and maintenance costs of that extra storage tank should go on the IPUD water bills as a summer surcharge (per Prop 218) so that those using that extra water are also the ones who are paying for the infrastructure needed to allow them that use. Such a summer surcharge would also encourage conservation.

We can only go by what IPUD has publicly stated: that the desirable amount of district wide storage would be one million gallons. Present storage is 400,000 gallons. This is slightly more than 1 acre foot. IPUD serves about 500 connections.

For comparison, MMWD has 80,000 acre feet of storage (not including water tanks and the Russian River supply), for approximately 100,000 connections, or approximately one acre foot of storage per connection. Their per capita storage is about 500 times better per capita than IPUDs.

Bolinas Community Public Utility District has 56 acre feet of storage. This does not include storage tanks. BCPUD has the same number of households as IPUD, and they have more than fifty times the storage per capita.

Long term storage allows the district to survive long term droughts. It also provides water for fire protection. IPUD has essentially no capacity to survive a serious long term drought, which is likely to occur with climate change.

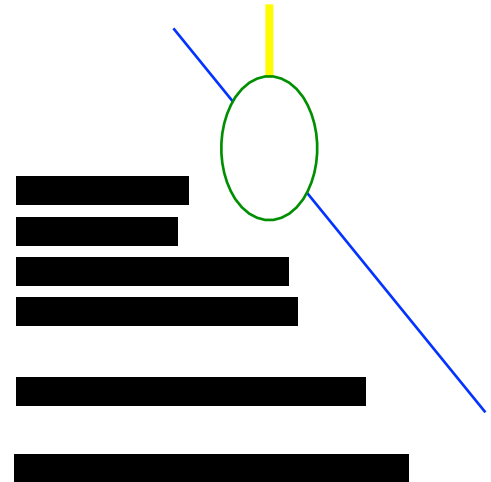
While IPUD could change its rate structure to encourage conservation, most people who are large water users are also able to easily absorb increases, so higher water rates might not result in substantial water conservation.

IA Q&A: *"Some companies allow property owners to make a case that the risk to their property is low."*

Paradise Ranch Estates, as a result of its own fire prevention efforts from its own parcel tax is certified as a "Firewise Community." <https://www.nfpa.org/Public-Education/Fire-causes-and-risks/Wildfire/Firewise-USA/Firewise-USA-Resources/Firewise-USA-sites/State-listing-of-participants>. However, the only insurance company that I have found that offers a Firewise discount (5%) is USAA, which is available only to members and family of the military, so the insurance benefits are very limited. If you have found other companies that offer discounts, you should listing them along with USAA and the specific discounts provided. As currently worded, the Q&A is a come-on because anyone can "make a case," but the only reality is how the insurance companies respond, which has been almost uniformly unhelpful.

The key question is not whether insurance companies will give a discount, but whether they will continue to insure properties in Inverness at all. While there is not a lot of history to settle

whether an increased fire protection program will give the companies sufficient comfort to continue to insure Inverness properties, that program added to the planned Fire Wise Inverness program that the IF is organizing surely will be helpful.



To: Inverness Foundation re IPUD Tax Initiative

Please see responses in red

In addition to the form (attached) here are some additional comments/concerns/suggestions:

Your tax proposal request is for a number of projects for both the water and fire departments. For the water projects I would favor a market approach with taxation only if adjusting rates didn't work. I spent considerable time over the past several years getting our small network of roads (Rannoch, Sterling, Keith) repaired/repaved and for residents here we still have several more years of payments on our tax notices due for that work (~\$1400/ developed lot and about half that for undeveloped lots). So additional taxes are going to be tough for some of us.

In summary I am not opposed to the tax proposals, but there is insufficient public information as to what is being proposed and how those proposals would tie to the proposed assessments.

The actual costs per project aren't provided, but breaking out the water projects first:

- A water conservation program of leak detection and replacing leaky wooden water storage tanks

I'M SURPRISED THERE ISN'T LEAK DETECTION BUILT INTO THE SYSTEM NOW. THERE MUST BE SOME SORT OF METERS ON EACH TANK, THERE ARE METERS AT EACH SERVICE LOCATION, SO I DON'T UNDERSTAND WHY THIS CAN'T BE CALCULATED. IF YOU MOVE WATER BETWEEN TANKS THEN THERE SHOULD BE METERS FOR THAT ALSO. PERHAPS THE METERS MUST BE MANUALLY READ, SO THAT CREATES A TIME LAG BETWEEN READINGS? AND OBVIOUSLY AN ELECTRONIC/REAL TIME METER SYSTEM WOULD BE A PLUS, BUT IS IT A NECESSITY?

The leaks in the IPUD system are primarily in the old redwood tanks. There is funding to replace the Tenney tanks, but not the others. IPUD has no leak detection program for the pipes. System losses are around 18%, as opposed to the industry standard of less than 5%. Much of this is caused by tank

leakage. With sufficient funding (not currently available) a company could be hired to survey the entire system and detect all leaky pipes. With our decomposed granite highly porous soils, leaks do not surface until they are major.

AGAIN NOT SURE HOW MANY TANKS ARE LEAKING OR ARE PLANNED TO BE REPLACED. LEAKS COULD PROBABLY BEST BE MITIGATED WITH LINERS IF THE TANKS ARE STRUCTURALLY SOUND.

The remaining wooden tanks (Colby) will cost \$350,000 to replace. Funds are not available. Wooden tanks are a terrible danger in a fire: a private wooden tank burned in the Vision fire. Replacement is the only solution.

I AM MORE CONCERNED ABOUT EARTHQUAKE INTEGRITY. HAVE THERE BEEN SEISMIC REVIEWS FOR THE SYSTEM? WOULD HATE TO INSTALL A BUNCH OF NEW TANKS/LINES ONLY TO FIND THEY ARE AT HIGH RISK OF FAILURE IN AN EARTHQUAKE.

The new steel tanks (like the one recently installed in Seahaven, and the ones planned to replace the Tenney tanks) will meet all modern earthquake resistant standards. American Water Works Association sets standards of operation (filling limit) so that an earthquake will not cause so much water movement as to damage or topple the tank.

- Replacement of antiquated and leaky pipelines and distribution systems

AGAIN NOT SURE IF THIS IS A WHOLESALE REPLACEMENT OR A PROGRAM OVER TIME TO REPLACE LINES. AS SUCH IT IS DIFFICULT NOW TO DETERMINE WHAT THE SCOPE IS. I WOULD THINK THAT LINE MAINTENANCE REPLACEMENT SHOULD BE BUILT INTO THE OPERATING BUDGETS

Yes, the operating budget includes ordinary maintenance. But major capital outlay projects come up. The Seahaven main distribution line needs to be replaced, and it will cost \$190,000. I believe, however, that this project has been budgeted. But as the system ages, these type of projects will become more common.

- Add 100,000 gallons of new water storage (a 25% increase in water system storage)

AGAIN NOT CLEAR IF THIS IS A SINGLE NEW TANK OR SIMPLY AN INCREASE IN STORAGE WHEN OLD TANKS ARE REPLACED?

This would be new storage. A site has not been chosen. It would be an increase of 25% in our system storage. IPUD often runs quite low on water in the late summer, just as fire season begins. Our ratio of storage to population is incredibly low. It is one tenth of Bolinas PUD, and a two hundredth of Marin Municipal Water District. Ideally, IPUD would have at least a million gallons of storage. We have only 400,000.

OF MORE CONCERN TO ME IS THE AQUIFER(S) THAT WE USE TO GET

OUR WATER. HAVE THERE BEEN HYDROLOGIC STUDIES DONE? I WOULD HATE TO SEE ANOTHER WATER SERVICE DISASTER SUCH AS PRS IS EXPERIENCING (DUE, IMHO, DIRECTLY BY THE REMOVAL OF THE GIACOMINI LEVEE, ALLOWING SEA WATER AQUIFER INFILTRATION).

IT MAY BE THAT TO MAINTAIN HIGH AQUIFER RECHARGE A SERIES OF SMALL PONDS AT THE TOP OF THE RIDGE MIGHT BE MORE EFFECTIVE THAN AN INCREASE IN STORAGE CAPACITY!

Fortunately, even with sea level rise, IPUD is in no danger of sea water intrusion. All the water is collected at least a few hundred feet above sea level. All the water comes from surface runoff, in a series of very small streams coming off Inverness Ridge. Since almost all the land upstream of the diversion points is publicly owned, there is little danger of development cause a degradation of water quality. However, as desirable as more storage upstream might be, almost all the land is owned by Tomales Bay State Park or Point Reyes National Seashore, and after the debacle of San Francisco building Hetch Hetchy Reservoir in Yosemite National Park, there is no chance the parks would allow IPUD to build storage on park land.

Assuming clarity as to the specifics of the various water projects/costs/timing, then I would need to understand why a market (pricing) component shouldn't be considered either as a replacement of the proposed tax or in conjunction with it.

I agree that IPUD should modify its rate structure in two ways. First, there should be an elevation charge. It takes energy to pump water to people higher in the district, and they should pay based on elevation. Second, there should be an ascending rate structure, with people using above the per capita median amount paying more per unit.

However, only 10% of IPUD's total revenue of \$1.2 million per year comes from the sale of water. Most of the revenue comes from various tax allocations, and a standby charge that is applied to every property. This is because IPUD must be ready to serve each residence for water and fire purposes, but about half the residences are second homes, using very little water. The standby charge is more equitable than charging full time residents a lot more for water.

In reviewing the water rates (last updated July 1, 2020) it appears we have only a single scaled rate on water usage. There is no industrial/commercial rate. Yet water is regularly taken (sometimes illegally without payment) for contractors and by local businesses. Do they pay the same usage rates?

IPUD has only one water rate. There should be more enforcement against contractors taking free water from hydrants. As far as I know, businesses pay the same rate as everyone else. There could be a separate rate for them.

In addition there is a basic \$146/two months service fee. Finally there is a \$12/unit

fee for non-residential customers for 61+ units/month usage (is this for businesses or folks with second homes?)

Everyone pays the service fee. I'm not sure about the \$12/unit fee.

I would propose that both the service fee and the usage rate be increased with emphasis on commercial (high volume usage) increasing rates. There is no better way to reduce consumption than to increase rates (through progressive rate programs such as you currently have).

Regarding fire protection services:

- * Cost sharing for removal of dead and hazard trees
IS THIS FOR TREES ON PRIVATE PROPERTY OR ???? I KNOW THAT FOR OUR NEIGHBORHOOD (PRIVATE ROADS) PRIVATE PROPERTY OWNERS ARE RESPONSIBLE FOR THEIR OWN TREES. TREES IN THE 40 FT RIGHT OF WAY ON THE PRIVATE ROADS ARE ADJUDICATED INDIVIDUALLY WITH THE AFFECTED NEIGHBORS AND FUNDS MAY BE USED FROM THE PRD (PERMANENT ROAD DIVISION #2 (PRD2)) COUNTY ACCOUNT. IF THESE TREES ARE ON COUNTY/STATE ROAD ROW's THEN THE APPROPRIATE AGENCY SHOULD BE RESPONSIBLE.

On county roads, the county pretty much removes hazard trees. Every private road is different. On our road (Via de la Vista) there are no community funds for trees, and property owners are either diligent or negligent about hazard or dead trees, with absolutely no county enforcement. There are also a fair number of people in Inverness who cannot afford the entire cost of dead tree removal. This measure would help them, and incentivize others (especially second home owners) to remove these trees.

- **ONE THIRD** of the cost of fuel control and ecological restoration on lands immediately adjacent to Inverness in Tomales Bay State Park and Point Reyes National Seashore.

THE SITUATION TO THE NORTH AND WEST OF INVERNESS REGARDING INTOLERABLY HIGH FIRE DANGER ON BOTH FEDERAL AND STATE LANDS MUST BE ADDRESS ASAP. NO MATTER HOW FIRE SAFE EACH LANDOWNER IS THESE AREAS ARE A TINDERBOX DUE TO ZERO MANAGEMENT BY THE CONTROLLING AGENCIES. ANY FIRE COMBINED WITH WINDS WILL CAUSE CATASTROPHIC FIRE DAMAGE TO OUR COMMUNITY DUE TO CROWN FIRES.

MUCH BLAME WAS PUT ON RESIDENTS OF PARADISE, BUT THE FIRES DID NOT ORIGINATE THERE AND IT WAS PG&E COMBINED WITH FOREST MISMANAGEMENT AT THE STATE AND FEDERAL LEVEL THAT DESTROYED THAT COMMUNITY.

WE MUST DO EVERYTHING WE CAN TO ADVISE STATE AND FEDERAL

AGENCIES OF THE DANGER THEY ARE PUTTING US IN AND SUCH NOTICE SHOULD INCLUDE STRONG LANGUAGE IF THEY DON'T MITIGATE THE FIRE DANGER THEY WILL BE HELD RESPONSIBLE FOR LOSS OF LIFE AND PROPERTY. WE ARE NOT ALONE IN THIS FIGHT AS MANY COMMUNITIES IN CALIFORNIA HAVE THE SAME ISSUES.

You point out a real and serious problem. State Parks (and national parks) have nothing like the funds needed to mitigate fire hazard. While we might hold them morally responsible for damage resulting from fires originating on their property, they are not legally responsible. They are pretty much immune from lawsuits trying to recover damage, even in the case of badly deferred maintenance. One of the major goals of this measure is to move us up on the priority list for Tomales Bay State Park forest improvement.

MY TAX BILLS ALREADY INCLUDE SEPARATE LINE ITEMS FOR INVERNESS FIRE, WILDFIRE JPA, MARINEMERGENCY RADIO. I AM NOT SURE WHY WE WOULD NEED ADDITIONAL LOCAL TAXES TO RESOLVE ISSUES DUE TO STATE AND FEDERAL LAND MISMANAGEMENT. I WOULD RATHER OUR EXISTING LOCAL TAX REVENUES BE PUT BACK INTO THE COMMUNITY TO ADDRESS THE WATER AND FIRE ISSUES.

As you point out above, and as demonstrated in Inverness resident (and professional forester) Tom Gaman's recent report on the Shell Beach/Heart's desire unit of the park, which is available on the Inverness Association website, if we don't do something about Tomales Bay State Park, our other efforts might be in vain.

Finally, you are proposing a single tax for all of these projects based on house size. While the water issues could best be addressed through pricing (see above), the fire mitigation affects all property owners and thus any assessment should be shared by all property owners, not just home owners.

I agree. All property owners would pay, not just developed properties. Our draft text (also available on the Inverness Association website) sets a fee for undeveloped properties as well.

Hope this is helpful for you.

January 176, 2021

FULL TEXT OF MEASURE ***

ORDINANCE NO. ****

FULL TEXT OF THE INVERNESS PUBLIC UTILITY DISTRICT INCREASED FIRE PREVENTION AND CONTROL MEASURE THROUGH AN INITIATIVE ORDINANCE SUBMITTED BY VOTERS IN THE INVERNESS PUBLIC UTILITY DISTRICT TO AUTHORIZE THE LEVY OF A SPECIAL PARCEL TAX

THE VOTERS OF THE INVERNESS PUBLIC UTILITY DISTRICT (hereinafter "District") ORDAIN AS FOLLOWS:

SECTION 1. AUTHORIZATION, PURPOSE, AND INTENT.

It is the purpose and intent of this Ordinance to authorize the levy of a tax on parcels of real property on the secured property tax roll of Marin County that are within the jurisdiction of the District.

Pursuant to the authority of Chapter 4 of Division 9 of the Election Code and other applicable law, following the certification of results of the *, * election, if a majority of the voters vote "yes" to the ballot question authorized under Section 7 of this Ordinance, there shall hereby be levied and assessed a special parcel tax by the District on all parcels of real property in the District for each fiscal year. It is the purpose and intent of this ordinance to impose a special parcel tax for fire protection and prevention services, including but not limited to improvements to the District water supply system to improve the ability of the system to fight fires, to improve district and customer efficiency to make more water available to fight fires and survive droughts, and to reduce fuels, and partner with state and federal park agencies to implement fuel reduction projects within and near the boundaries of the District.

SECTION 2. DEFINITIONS.

The following definitions shall apply throughout this Ordinance.

A. "Parcel" means the land and any improvements thereon, designated by an assessor's parcel map and parcel number and carried on the secured property tax roll inside the boundaries of the District. For the purposes of this Ordinance, parcel does not include any land or improvements owned by any governmental agency.

B. "Fiscal year" means the period of July 1 through the following June 30.

C. "Consumer Price Index" means the Consumer Price Index for all Urban Consumers (CPI-U) for the San Francisco-Oakland-San Jose Area (1982-84=100) as published by the U.S. Department of Labor, Bureau of Labor Statistics. If the Consumer Price Index is discontinued or revised, another similar government index or computation shall be utilized, as determined by the District.

D. "Use Code" means the two-digit number created by the Marin County Assessor's Office to define classes of properties.

SECTION 3. SPECIAL PARCEL TAX IMPOSED.

(a) A special parcel tax for the purpose specified in Section 1 of this ordinance shall be imposed on all taxable parcels of real property within the jurisdictional boundaries of the District. The County of Marin defines certain classes of properties that appear on the assessment roll, which may be updated as necessary.

The maximum amount of the special parcel tax for each fiscal year from fiscal years 2021-2022 through fiscal year 2030-2031 shall be as follows, as adjusted annually by the change in the Consumer Price Index:

Improvement Status	Property Type	Maximum Rate	Per
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Improved	Agricultural Preserve Contract (Use Code 33) Agricultural Preserve Farmland Security Zone (Use Code 35)		
	Commercial (Use Code 51)		
	Historical Property (Mills Act) (Use Code 38)		
	Industrial (Use Code 41)		
	Multiple Family Residential (Use Code 21)		
	Open Space Contract (Use Code 37)	\$0.20	Building Square Foot
	Rural (Use Code 31)		
	Single Family Residential; Single Family Residential, one living unit; Single Family Residential, one living unit with second dwelling unit (Use Code 11)		
	True Duplex (Use Code 21)		
	Attached Single Family Residential (includes condominiums, townhouses, attached Planned Unit Developments, and co-ops) (Use Code 14)		
Manufactured Home (Use Code 12)			
Unimproved	All Non-Exempt vacant, less than or equal to 0.25 acres (Use Codes 10, 20, 30, 32, 34, 36, 40, 50)	\$40.00	Parcel
Unimproved	All Non-Exempt vacant, greater than 0.25 acres up to and including 0.50 acres (Use Codes 10, 20, 30, 32, 34, 36, 40, 50)	\$150.00	Parcel
Unimproved	All Non-Exempt vacant, greater than 0.50 acres (Use Codes 10, 20, 30, 32, 34, 36, 40, 50)	\$225.00	Parcel

For each fiscal year from fiscal year 2031-2032 through fiscal year 2040-2041, the maximum amount of the special parcel tax for each fiscal year for improved property shall be one cent per square foot per year less than the previous year, after adjustment pursuant to paragraph (b) of this section. After fiscal year 2040-2041 no further changes in the maximum amount of the special parcel tax shall be made, except for changes made pursuant to paragraph (b) of this section.

(b) Before the beginning of each fiscal year, the Board of Directors of the District shall adjust the maximum parcel tax to be levied upon the parcels for the upcoming fiscal year as adjusted by inflation.

The Board of Directors of the District shall set a parcel tax not to exceed the maximum parcel tax as adjusted by inflation.

The maximum tax per year for each property type shall be adjusted to reflect any change in the Consumer Price Index beyond the first fiscal year the parcel tax is levied. Change in the Consumer Price Index shall be calculated from February of the immediately preceding year to February of the current year, or 3%, whichever is less.

The records of the Marin County Tax Collector each year shall provide the basis for determining the calculation of the special parcel tax applicable to each parcel, with such corrections as deemed necessary by the Board of Directors for the District to reflect the actual use and improvement of any parcel.

The District may implement a parcel tax fee waiver or reduction program for low income households at its discretion.

SECTION 4. SPECIAL FUND, USE OF TAX PROCEEDS.

The proceeds of the special tax imposed by this ordinance shall be placed in a special fund to be used solely for the purposes of this measure, as set forth in Sections 1 and 7, for use within the District, and on public land adjacent to the District.

SECTION 5. TAXES AS LIENS AGAINST THE PROPERTY.

The amount of taxes for each parcel each fiscal year shall constitute a lien on such property in accordance with Revenue and Taxation Code Section 2187 and shall have the same effect as an ad valorem real property tax lien until fully paid. Said special parcel tax, together with all penalties and interest thereon, shall constitute until paid, to the extent authorized by law, a personal obligation to the District by the persons who own the parcel on the date the tax is due.

This tax is a special tax within the meaning of Section 4 of Article XIII A of the California Constitution. Because the burden of this tax falls upon property, this tax also is a property tax, but this tax is not determined according to nor in any manner based upon the value of property; this tax is levied on a parcel, class of improvement, and use of property basis. Insofar as not inconsistent with this Ordinance or with legislation authorizing special taxes, and insofar as applicable to a property tax that is not based on value, such provisions of the California Revenue and Taxation Code and of Article XIII of the California Constitution as relate to ad valorem property taxes apply to the collection and administration of this tax (Severability Clause of Section 10), except as stated below.

In the decision of the California Court of Appeals First District in "CITY AND COUNTY OF SAN FRANCISCO, Plaintiff and Respondent, v. ALL PERSONS INTERESTED IN THE MATTER OF PROPOSITION C, Defendants and Appellants. A158645 (City & County of San Francisco Super. Ct. No. CGC-19-573230)", the court determined that citizen initiatives imposing new taxes need only pass by a majority vote. The California Supreme Court declined to review this case. In "California Cannabis Coalition vs City of Upland" the California Supreme Court determined that Article XIII C does not constrain voters' constitutional power to propose and adopt taxation initiatives and that under Article II, Section 11 of the Constitution and the Elections Code, the initiative should be submitted at a special election, and Article XIII C does not limit voters' power to raise taxes by statutory initiative. Supreme Court decision S234148.

These two cases make this citizen initiative to impose taxes legal, and the measure need pass by only a majority vote.

SECTION 6. COLLECTION.

The taxes on each parcel shall be billed on the secured roll tax bills for ad valorem property taxes and shall be due to the District, insofar as feasible and insofar as not inconsistent with this Ordinance, the

taxes are to be collected in the same manner in which the County of Marin collects secured roll ad valorem property taxes. Insofar as feasible and insofar as not inconsistent with the Ordinance, the times and procedures regarding exemptions, due dates, installment payments, correction, cancellations, refunds, late payments, penalties, liens, and collections for secured roll ad valorem property taxes shall be applicable to the collection of this tax. Notwithstanding anything to the contrary in the foregoing, as to this tax: (1) the secured roll tax bills shall be the only notices required for this tax; and (2) the homeowners and veterans' exemptions shall not be applicable to this tax because such exemptions are determined by dollar amount of value. The reasonable costs incurred by the County officers collecting this tax shall be deducted from the collected taxes.

SECTION 7. BALLOT LANGUAGE.

This measure shall appear on the ballot at the election held on *, *. The voters who placed this measure on the ballot request it reads as follows:

Measure *. Inverness Public Utility District Fire Prevention and Control. To improve the water supply of the Inverness Public Utility District in order to better fight fires and avoid water shortages, to implement water conservation measures by the District and its customers, and to control fuels and other fire hazards inside District boundaries and on state and federal lands adjoining the District; shall the Inverness Public Utility District Fire Prevention and Control Parcel Tax Measure be adopted?

SECTION 8. USE OF FUNDS.

~~(A) (1) (a)~~ Over each three-year period, approximately half of the funds collected shall be used for ~~customer-incentives paid to property owners within the District, for implementing~~ water conservation, leak detection and elimination, and greywater and rainwater storage; and water capital outlay improvements which increase and improve the reliability of the water supply available to fight fires. ~~(b)~~ Over each three-year period, approximately half of the funds collected shall be used to reduce fuels on public and private property within the District and on state and federal park lands adjoining the district; to reduce the danger of trees and branches falling on electrical wires and causing fires; for increased water storage to better fight fires; and to share in the costs of removing dead trees and other fuels on private property if the private property owner agrees to create and maintain defensible space in accordance with the requirements of Section 4290 et seq. of the California Public Resources Code.

~~(A) (2) Projects and programs which the District is authorized to undertake using funds provided by paragraph (A)(1)(a) of this section include but are not limited to cost sharing with consumers to a) undertake leak detection, b) make outdoor irrigation systems more efficient, c) construct storage of rainwater and graywater including equipment to make it available to firefighters, d) construct on site storage of District water which is accessible to the District and firefighting organizations, e) removal of dead trees and other fuels, and f) replacing inefficient water using appliances with more efficient appliances.~~

(B) All projects to reduce fuels shall comply with the California Environmental Quality Act, and use the California Department of Forestry and Fire Protection Vegetation Treatment Plan as guidance for project implementation.

SECTION 9. ADMINISTRATION AND AMENDMENT.

The District by resolution may adopt procedures or definitions for the implementation or administration of the special parcel tax, with approval of the District Board of Directors. The District Board of Directors shall be empowered to amend this ordinance by an affirmative unanimous vote of its members to carry out the general purposes of this ordinance, to conform the provisions of this ordinance to applicable state law, to modify the methods of collection, or to assign the duties of public officials under this ordinance.

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Except as provided in Section 3, the District Board of Directors shall not amend this ordinance to increase the maximum amount of the special parcel tax established in Section 3 of this ordinance, or to modify the purposes for which the tax proceeds were established in Section 8 of this ordinance, unless approved by a majority of the District's voters voting thereon.

SECTION 10. EXEMPTIONS.

The special parcel tax shall not be imposed upon any parcel that is exempt from the special parcel tax pursuant to any provision of the United States Constitution, California Constitution, California State law, or any paramount law. Additionally, parcels that are classified by County Assessor Use Codes 13, 15, and 53-90 are exempt from this special tax. These exemptions include churches, non-profits and local governments that meet the standards for exemption from ad valorem tax.

SECTION 11. SEVERABILITY.

If any provision, section, subsection, sentence, phrase or clause of this Ordinance is for any reason held to be invalid, such decision shall not affect the validity of the remaining portion of the Ordinance. The voters hereby declare that they would have adopted the remainder of this Ordinance, including each provision, section, subsection, sentence, phrase or clause, irrespective of the invalidity of any other provision, section, subsection, sentence, phrase or clause.

SECTION 12. EFFECTIVE DATE.

This Ordinance shall take effect immediately following the certification of results of the *, * election if a majority of the voters vote "yes" to the ballot question authorized under Section 7, and taxes shall first be levied hereunder for the fiscal year beginning *, *.

SECTION 13. AUDITS.

An independent audit of the accounts and records of the District shall be conducted annually to comply with all requirements of the State Controller's office.

SECTION 8. USE OF FUNDS.

A) (1) Over each three-year period, approximately half of the funds collected shall be used for incentives paid to property owners within the District for implementing consumer water conservation, leak detection and elimination in District facilities; and water capital outlay improvements which increase and improve the reliability of the water supply available to fight fires. Projects and programs which the District is authorized to undertake using funds provided by this paragraph include but are not limited to cost sharing with consumers to a) undertake leak detection on the consumer side of the meter, b) make irrigation systems more efficient, c) construct storage of rainwater and graywater for consumer use, including equipment to make the water available to firefighters, d) construct on site storage of District water which is accessible to the consumer, and to the District and firefighting organizations, and e) replacing inefficient water using appliances with more efficient appliances.

(2) Over each three-year period, approximately half of the funds collected shall be used to reduce fuels on public and private property within the District and on state and federal park lands adjoining the district, including creation, restoration and maintenance of fuel breaks; to reduce the danger of trees and branches falling on electrical wires and causing fires where removal of such trees and branches is not the obligation of other companies or public agencies; for increased water storage to better fight fires; to share in the costs of removing dead trees and other fuels on private property if the private property owner agrees to create and maintain defensible space in accordance with the requirements of Section 4290 et seq. of the California Public Resources Code; and removal of fuels which impair the utility of roads and trails needed for access by firefighters or for evacuation.

(B) All projects to reduce fuels shall comply with the California Environmental Quality Act, and use the California Department of Forestry and Fire Protection Vegetation Treatment Plan as guidance for project implementation.

Subject: FW: Soliciting feedback on fire and water measure
Attachments: expenditure plan concept \$.20 per square foot.xlsx

From: Gerald Meral
Sent: Saturday, February 13, 2021 7:58 AM
To: [REDACTED]
Subject: Re: Soliciting feedback on fire and water measure

Hi [REDACTED]

Sorry for the delayed response. [REDACTED] Please see below for responses to your questions in CAPS. I'd be happy to discuss this measure further.

Thanks for your defense of SMART. An initiative I sponsored in 1990 provided the first funds for SMART.

best regards

Jerry

Hi,

I read about the IF's fire and water measure in the Pt Reyes Light Perspective section. I visited your website at <https://www.invernessassociation.org/fire-water-measure> and see that it says "We sent a survey to Inverness voters to test this concept." We are new residents of Inverness as of May, 2020, but didn't receive a survey. How did you send it out? Is it closed? And if so what were the results? (If not please send me one via email here...thank you!)

I HAVE ASKED OUR WEB PERSON TO FIX THE TYPO. THANKS FOR POINTING THAT OUT.

WE SENT THE MAILING TO ALL REGISTERED VOTERS IN INVERNESS, BASED ON INFORMATION WE GOT FROM THE COUNTY ELECTIONS OFFICE. PERHAPS THE FILE THEY SENT US WAS NOT UPDATED. IF YOU HAVE REGISTERED TO VOTE HERE IN INVERNESS, YOU MIGHT WANT TO CHECK WITH THE ELECTIONS OFFICE TO BE SURE THEY GOT YOUR REGISTRATION INFORMATION RIGHT. IF YOU ARE A REGISTERED VOTER IN INVERNESS I WOULD BE HAPPY TO SEND YOU A SURVEY.

Separately, I took a look at the [text of the current measure](#) and I am concerned that as worded it seems most possible that the funds will be claimed by those in the community who are least likely to need them. Take the phrase "cost sharing with consumers". Cost sharing can only happen when the "consumer" is capable of an initial outlay. So for example, if we buy a new 2500 gallon storage tank, might we get a refund of 20-50% of the cost? Is that how it would be expected to work? Or if we add new drip irrigation we would get reimbursed for that? How about if we cut down some trees on our land...could we be reimbursed for

that? And then what happens if all the funds are allocated during the year...who gets priority for the funds the next year? Is it first come first served? Can someone get multiple reimbursements in a single year? Is there a maximum that any one parcel or family or entity can be reimbursed in a year, across years, or for the life of the tax? And who will decide that?

THESE ARE ALL EXCELLENT QUESTIONS. THIS MEASURE WILL LAST QUITE A WHILE, SO WE NEED TO ALLOW THE IPUD BOARD OF DIRECTORS DISCRETION IN THE EXPENDITURE OF FUNDS TO MEET CHANGING CIRCUMSTANCES. EVERY QUESTION YOU RAISE WILL HAVE TO BE DECIDED BY THE BOARD OF DIRECTORS IF THE MEASURE PASSES. IF THE MEASURE QUALIFIES FOR THE BALLOT, THE BOARD COULD LET THE VOTERS AND OTHER PROPERTY OWNERS KNOW WHAT PROCEDURES THEY WOULD FOLLOW, AND EVEN ADOPT SPECIFIC CRITERIA TO ANSWER THE QUESTIONS YOU RAISE.

HERE IS MY VIEW OF THE ANSWERS TO YOUR SPECIFIC QUESTIONS, BUT AGAIN, THIS WILL BE UP THE BOARD. THE BOARD IS ELECTED BY THE VOTERS OF INVERNESS, WITH 2-3 SEATS OPEN EVERY TWO YEARS. DIRECTORS SERVE 4 YEAR TERMS.

I WOULD ESTABLISH TWO CRITERIA FOR EACH OF THE CATEGORIES YOU MENTION. FIRST, COST EFFECTIVENESS. WOULD AN INVESTMENT BY IPUD PRODUCE SUBSTANTIAL WATER SAVINGS OR REDUCE FIRE DANGER. SECOND, FINANCIAL NEED. IF THE PROPERTY OWNER HAD ASKED FOR AN EXEMPTION FROM THE PARCEL TAX BASED ON FINANCIAL NEED, I WOULD PRIORITIZE THEIR REQUEST. I THINK THERE WILL BE VERY FEW OF THESE, SINCE ONLY TWO PROPERTY OWNERS IN IPUD ACTUALLY ASKED FOR AN EXEMPTION BASED ON FINANCIAL NEED FROM THE PARCEL TAX IMPOSED BY MEASURE C (PASSED BY MARIN COUNTY VOTERS LAST MARCH.)

REGARDING OUTDOOR IRRIGATION SYSTEMS, I THINK ONLY RETROFITTING LEAKY SYSTEMS WOULD BE ALLOWED, SINCE THERE WOULD BE NO WATER SAVINGS FROM INSTALLATION OF NEW SYSTEMS.

REGARDING INSTALLATION OF WATER STORAGE, I THINK THAT IF THE PROPERTY OWNER AGREED TO USE THE SYSTEM TO REPLACE WATER TAKEN FROM IPUD (IRRIGATION OF OUTDOOR PLANTS, FOR EXAMPLE) THE SYSTEM WOULD BE ELIGIBLE FOR SOME SUBSIDY. SIMILARLY, IF THE PROPERTY OWNER AGREED TO ALLOW THE USE OF THEIR NEW WATER STORAGE TO FIGHT FIRES, THEY MIGHT BE ELIGIBLE FOR A SUBSIDY.

AGAIN, THESE ARE ALL QUESTIONS THAT WILL HAVE TO BE RESOLVED BY THE IPUD BOARD OF DIRECTORS. IF I MAY QUOTE FORMER GOVERNOR PAT BROWN, WHO ONCE SAID "BETTER PROBLEMS WITH WATER THAN PROBLEMS WITHOUT WATER", I WOULD LOOK FORWARD TO THE RESOLUTION OF THE ISSUES YOU DESCRIBE BASED ON NEW RESOURCES, RATHER THAN HAVING TO GO TO RATIONING IN THE EVENT OF A DRY YEAR, OR RUNNING OUT OF WATER DURING A FIRE FIGHT.

In addition to these questions I have a couple of questions about the text as currently designed:

1) How long will this tax extend? I see the years 2040-2041 mentioned, but no specific end date. THE CURRENT DRAFT TEXT CREATES THE PARCEL TAX AT \$.20 PER SQUARE FOOT FOR THE FIRST TEN YEARS, THEN REDUCES IT ONE CENT PER SQUARE FOOT OVER THE NEXT TEN YEARS. AFTER 20 YEARS IT REMAINS AT \$.10 PER SQUARE FOOT. THESE REVENUES WOULD BE USED TO MAINTAIN THE FUEL REDUCTION AREAS (THINGS GROW BACK), AND TO MAINTAIN THE WATER INVESTMENTS MADE IN THE FIRST 20 YEARS.

2) I'd like to see a spreadsheet showing how much money this measure will raise, and for how long. The spreadsheet would show what the tax would cost and raise for each year, and also show what happens if the tax is raised by the maximum of 3% yearly... as a first year rate of \$340 will be \$614 at the end of 20 years.

I HAVE ATTACHED MY OWN VIEW OF A POSSIBLE EXPENDITURE PLAN. THIS HAS NOT BEEN IN ANY WAY APPROVED BY IPUD. THE FINAL DECISION WOULD BE MADE BY THE BOARD OF DIRECTORS. SINCE THE ANNUAL INCREASE IS TIED TO THE CONSUMER PRICE INDEX, WE HAVE TO ASSUME THAT ANY INCREASE IN THE PARCEL TAX WOULD ONLY KEEP UP WITH THE INCREASED COST OF THE PROGRAM, SO THERE WOULD BE NO REAL INCREASE IN THE COST OF THE PROGRAM.

3) What entity will collect and disburse the funds? MARIN COUNTY WILL COLLECT THE FUNDS AND PROVIDE THEM TO IPUD.

4) How much of the funds will go to IF? NONE. IF IS NOT A GOVERNMENT AGENCY.

5) This appears to be mixing two things - IPUD's water storage needs, and fuel reduction -- and I agree with the Perspective author that if IPUD needs additional facilities that it should be the one to lead a tax measure just for IPUD. And if we need fuel reduction, the measure should specify exactly what fuel reduction is planned before voting on a tax to fund such. IPUD PROVIDES WATER AND FIRE PROTECTION SERVICES. THE NEED FOR FUEL REDUCTION IN INVERNESS AND IN THE SURROUNDING PARKLANDS IS WELL KNOWN. A RECENT SURVEY BY THE MARIN FIRE DEPARTMENT SHOWED THAT VERY FEW PROPERTIES COULD BE CONSIDERED FIRE SAFE. A RECENT REPORT BY PROFESSIONAL FORESTER TOM GAMAN (ON THE IF WEBSITE) DEMONSTRATES A VERY LARGE AND URGENT NEED FOR FUEL REDUCTION AND ECOLOGICAL RESTORATION AT TOMALES BAY STATE PARK, WHICH BORDERS MOST OF INVERNESS. THE NEED FOR MORE WATER STORAGE WILL LIKELY BE DEMONSTRATED ONCE AGAIN AT THE END OF THIS SUMMER WHEN SEVERE WATER USE RESTRICTIONS ARE LIKELY TO BE IMPOSED.

IPUD CANNOT RAISE PROPERTY TAXES DUE TO RESTRICTION PLACED BY PROPOSITION 13 (1978 STATEWIDE BALLOT MEASURE). WATER RATES PROVIDE ONLY 10% OF IPUD'S BUDGET, SO ARE NOT A GOOD SOURCE OF SUBSTANTIAL NEW REVENUE.

SEE PRESIDENT HARTZELL'S LETTER TO THE LIGHT IN RESPONSE TO THE PERSPECTIVE COLUMN.

PLEASE LET ME KNOW IF YOU HAVE ANY ADDITIONAL QUESTIONS, OR WOULD LIKE TO DISCUSS BY PHONE.

Sincerely,

A black rectangular redaction box covering the signature of the sender.

Wade Holland

From: Wade Holland
Sent: Monday, January 25, 2021 11:42 AM
To: 'gbatmuirb@aol.com'
Cc: Shelley Redding
Subject: RE: Water Shortage Thoughts

Gordon, this is an initiative measure being put together by its proponents, not by the District (although we have responded to a number of requests for information, as we are obligated and happy to do). We have been asked to place an item about it on the agenda for the Board's Feb. 24 meeting, and we expect that the proponents will be present to make a presentation. Staff has been asked to prepare its views on the specific programs itemized on the IA's survey document and Directors will likely have an opportunity to express their individual views (it is not anticipated that the Board will take any official action).

We'll send you the agenda and info on linking into the meeting in case you are interested in participating.

--Wade

Wade B. Holland
Customer Services Manager
Inverness Public Utility District
P.O. Box 469
50 Inverness Way North
Inverness CA 94937-0469
(415) 669-1414

From: gbatmuirb@aol.com <gbatmuirb@aol.com>
Sent: Saturday, January 23, 2021 2:30 PM
To: Wade Holland <wade.holland@invernesspud.org>
Subject: Re: Water Shortage Thoughts

Hi Wade...I see the Jerry Meral has picked up my July 2020 idea for a parcel tax for fire protection, which is good.

However, the parcel tax as proposed in the garbled Pt Reyes Light article should not pay to remove dangerous and dead trees...that is the responsibility of the parcel owner and I believe the Fire Dept has the authority to require the owner to mitigate that danger. Parcel owners who take good care of their trees shouldn't have to pay for other parcel owners who don't.

Further, I don't agree that proposed additional water storage capacity (a good idea) should be paid for by the parcel tax. I believe that if you look at winter water use per household that use water in the winter and project that figure onto all households (to account for summer only residents), then the difference will roughly be landscape water. So I don't believe IPUD has a water shortage...instead it has a landscaping surplus. Again, a parcel owner with no or xeric landscaping shouldn't have to pay to water a rose garden on someone else's parcel. Instead, the amortized and maintenance costs of that extra storage tank should go on the IPUD water bills as a summer surcharge so that those using that extra water are also the ones who are paying for the infrastructure needed to allow them that use.

Gordon

From: gbatmuirb@aol.com <gbatmuirb@aol.com>
Sent: Thursday, July 9, 2020 2:35 PM

To: Wade Holland <wade.holland@invernesspud.org>

Subject: Water Shortage Thoughts

Wade: I have long been puzzled by how the IPUD rate structure relates to the regular summer water shortages (more severe this summer). Based on my old bills (current rates are not on the IPUD website), the rate structure appears to be heavy on the **"Basic Charge"** and light on **"Use Charge."**

IPUD's "Use Charge" would seem to encourage (or at least not discourage) more profligate use during summer months. (Steeply) tiered water rates are a well-known and generally-accepted conservation practice among water utilities. We had perhaps similar water-shortage problems every summer when I was on the Board of the Muir Beach Community Services District. Summer 2nd home users with their water bills on auto pay had no incentive to look at water usage or at their water bills, which were considered a triviality to the overall cost of a 2nd home. Although the summer population went up by 25%, summer water usage tripled, so it was clear that landscaping, not population, was driving usage and creating the shortage problem. That problem only changed when steeply tiered water rates were enacted and the highest users got bills over \$1000...i.e. enough to catch their attention. Water use immediately dropped as it became less expensive to change landscaping practices and to repair leaking watering systems than to pay a \$1000+ water bill. So it is not clear why IPUD does not have steeply tiered rates.

IPUD's "Basic Charge" brings financial stability to the District. The Basic Charge was explained to me as essentially a stand-by charge for fire protection that is independent of use (i.e. whether the unit is occupied or not). Similarly, the Basic Charge could also be considered a stand-by charge for water service availability for parcels that have yet to be built-on. But given those rationales, then why isn't the fixed Basic Charge structured as a parcel tax applicable to all parcels (whether built-on or not). As currently structured, the Basic Charge is applicable only to improved parcels with water service and thus those customers subsidize the fire protection and water availability for the owner of un-improved parcels. It would seem more equitable to spread the burden over all parcels. If the number of un-improved parcels is small, then the difference would be between charging only improved parcels vs all parcels would be small. But if there are a significant number of "free-riding" parcels, then spreading the cost over all parcels would reduce the cost to residents (who would be the only voters on the parcel tax). Further, I do not see on the IPUD website any information about the buy-in cost of a new connection, which should be a prorated cost of the total system (not the \$50 "account set up" fee).

The combination of Tiered Rates and a more-broadly-spread Basic Charge would seem to encourage conservation and be a more equitable distribution of costs that now seem to subsidize those who can afford a 2nd home or parcel at the expense of long-term residents who are the community's bill-payers, voters and backbone.

Gordon

TO: IPUD Board Cc:IA/IF
RE: Jerry Meral's Fire/Water Tax Proposal

February 13, 2021

I am dismayed by the apparent purpose and focus of the parcel tax proposal that is currently being presented to the community and to the IPUD Board. I am neither a forester, a fireman, nor a civil engineer, but I do know impractical wishful thinking when I see it.

I think the singular focus of the proposal is to find a funding source to primarily work on firebreaks and fuel reduction---particularly the unsustainable and questionably effective firebreak that separates the Seahaven neighborhood from the forest along the boundary of Tomales Bay State Park. This boundary has already received an inordinately large share of previous fire-prevention grant funding, yet only demonstrates how minimally effective, expensive and short-term a solution these forest clearing exercises can be.

The fierce wind-driven fires that have done so much damage to other areas of California seem highly improbable here---our topography and relative humidity just don't provide the conditions for this type of fire. And if there comes a time when the conditions would increase the probability of these firestorms, no forest-trimming/fuel-reduction effort is going to keep the fire out of our neighborhoods.

The lay of our land makes the fire protection aspects of this parcel tax somewhat inequitable. The loudest voices currently in support all seem to be Seahaven residents. The residents of First and Second Valleys would get relatively far less benefit from the proposed firebreaks. Similarly, those with larger houses on smaller parcels would not receive the same benefits relative to those parcels with houses on larger parcels along the edges of town.

Much of the rest of the proposal amounts to lipstick on the pig. While improving our water supply and upping conservation efforts are good and desirable goals, many of the proposed projects are both impractical and unrealistic. Graywater systems are good on the chalkboard, but very hard to implement on the ground---basics such as separate plumbing and gravity keep getting in the way. Flooding the neighborhoods with small plastic storage tanks to hold catchment water really won't give us any significant improvement for firefighting---just ask any fireman---but will be a guaranteed diminishment of the town's aesthetic quality. And the vague promise of an extra 25% increase in the town's storage capacity is almost laughable in its naivety. I have had a front row seat for 32 years as the District has attempted to replace and occasionally thought to expand the storage at the Tenney Tank site---this is hard and expensive stuff.

Finally, the parcel tax may well have unintended consequences tying the District's hands in terms of delineating how the funds should be spent. As the District is not writing this parcel tax measure (and unfortunately needs to keep its hands off the process) it remains to be seen if the final form restricts or distorts District function in the years to come. Governance by this sort of initiative or measure is often a bad way to govern.

I don't mean to disregard the very real anxiety that my neighbors have towards wildfires. I just think that so much of this proposal is somewhere in the realm of sweeping the forest floor. And I deeply resent the fear-based sales pitch that seems to be driving the campaign for this parcel tax.

Sherry and I would be completely supportive of a significant increase in District revenues---either through a parcel tax or a further increase in our water rates---to help the District improve its water supply and storage systems. I hope the District thanks the IA/IF for their thoughts on this and proceeds with a more practical and water-centric program.

Forest fires are always a possibility when one lives in a forest. Our water supply however is a day-to-day necessity that transcends probabilities and is essential to our domestic lives, our vegetable gardens, and to non-cataclysmic fire protection efforts.

Tom Baty

From: [Wade Holland](#)
To: [Shelley Redding](#)
Subject: FW: INVERNESS PARCEL TAX NEEDS TO HIT THE PAUSE BUTTON
Date: Saturday, February 20, 2021 1:06:18 PM

Shelley, this should have come to you.

Wade B. Holland
Customer Services Manager
Inverness Public Utility District
P.O. Box 469
50 Inverness Way North
Inverness CA 94937-0469
(415) 669-1414

From: gbatmuirb@aol.com <gbatmuirb@aol.com>
Sent: Saturday, February 20, 2021 12:12 PM
To: Wade Holland <wade.holland@invernesspud.org>
Subject: INVERNESS PARCEL TAX NEEDS TO HIT THE PAUSE BUTTON

Wade: I'd appreciate this letter being distributed to the IPUD Board and also entered as part of the public comment in Agenda item #3 on the 2/24/21 IPUD meeting.
Thanks, Gordon

INVERNESS PARCEL TAX NEEDS TO HIT THE PAUSE BUTTON

The parcel tax proposed by the Inverness Association is a wish list created by the prospect of spending other people's money. The proposal is defective in both substance and presentation.

One sales pitch for the tax is that it will repair the leaky and aging infrastructure of the Inverness Public Utility District (IPUD). But we're all aging...the issue is how well we are aging. According to the IPUD 99% of its infrastructure is "well within its minimum life expectancy." And IPUD notes that it does not consider its system to be leaky. The sales pitch is misleading.

Another sale pitch is that the tax will enable residents to approach their insurance companies for lower rates due a "Firewise" rating for the community...implying that the tax cost could be offset by a lower insurance cost. Paradise Ranch Estates is a "Firewise" community, but only USAA gives a 5% reduction limited to veterans. The other insurance companies discount based on the fire rating assigned the Insurance Services Office (ISO). The tax proposal pitches a Firewise program that does not affect insurance rates for most property owners and ignores the ISO program that does affect insurance rates.

Another sales pitch is that the tax will enable more water storage that will relieve summer water shortages. But shortages in dry years are not caused by lack of storage...they are caused by lack of water to service landscaping use. Currently IPUD

is pulling every drop it can from its sources...IPUD can't store what it doesn't have.

Further, parcel owners with waterwise landscaping shouldn't be taxed to subsidize others with more water-hungry landscaping. Landscape water costs should be paid by water rates, not parcel taxes.

The parcel tax also claims to fund removal of fire prone vegetation from parcel owners who cannot afford to do so. But the Marin nuisance abatement code already allows the County to clean up problem parcels and put a tax lien on the problem parcel for the cleanup cost. In contrast, the tax proposes to put a tax lien on every parcel owner to clean up the problem parcel.

Such use of tax money creates a perverse incentive that could increase fire risk if owners with the means to maintain their parcel wait and lobby for tax money to do the job. If the Inverness Association wants to help parcel owners who are land rich but cash poor, then they should raise money from willing donors and extend loans or grants. But parcel owners who take care of their property shouldn't be taxed to subsidize others who don't.

The tax proposal also ignored water system design. According to IPUD, the originally proposed additional "500,000" gallon tank could never have been built because the system's "residence time" would have created "Disinfection By-Products" exceeding health standards. The tax proposal was shooting first and asking questions later...a continuing problem.

Nor does the downsized 100,000 gallon tank help the fire rating, as the proposal claims. The 24-page detailed testing and inspection of Insurance Services Office Report notes that Inverness has adequate water supply for an even higher fire rating because its existing storage is inter-tied with the North Marin system (which is itself inter-tied with Marin Municipal). The tax proposal is addressing a fire storage problem that does not exist and ignoring a fire distribution problem that does exist.

The same ISO Report notes that, while water supply on-hand and accessible is adequate for fire suppression, the distribution of that supply is not. Over half of the hydrants tested for flow failed to meet ISO fire standards. The Tenny tank just above the Fire Station supplied more than adequate flows with the highest at 150%, but the Colby tank just below the station failed at all of its hydrants with the lowest at only 17% of required flow. The tax proposal ignores this problem.

Lastly, the tax's proposed fire break may be a good idea, but it protects only the Seahaven portion of Inverness. Meanwhile, the one Seahaven hydrant tested by the ISO supplied only 51% of the required flow. As a Seahaven parcel owner, I appreciate the apparent Seahaven focus of the parcel tax, but when half the hydrants in the community are woefully under required flows and the other half greatly over and the uphill backside of Inverness has no fire break, I suggest consideration be given to evening out fire protections within the community.

All of the above said, readers may think that I am against a parcel tax. I am not. I proposed a parcel tax to the IPUD several months ago because I believe that fire impacts all parcels regardless of whether they have water meter and thus it was unfair for water users only to pay for fire infrastructure while vacant parcel owners got a free ride. I am not against a parcel tax...I am against a poorly-conceived parcel tax.

I urge the Inverness Association to go back to the drawing board and work with the IPUD Fire Chief, a water systems engineer and the IPUD Board to target cost-

effective projects that will improve Inverness's ISO rating and other fire/water projects that will benefit the entire community.

Gordon Bennett, Paradise Ranch Estates resident and Seahaven parcel owner



Inverness Public Utility District
Board Meeting February 24, 2021

Agenda Item No. 4

Regular Meeting December 16, 2020

Minutes Approval



Inverness Public Utility District

Fire Department ~ Water System

50 Inverness Way No., P.O. Box 469, Inverness CA 94937 ~ (415) 669-1414

Board of Directors

Minutes, Regular Meeting

Wednesday, December 16, 2020, 9:00 a.m.

Teleconference

1. Call to Order

President Emanuels called the meeting to order on Teleconference at 9:06 a.m.

Attendance Report

Directors Present: Kenneth J. Emanuels, Kathryn Donohue, Brent Johnson, Dakota Whitney, David Press

Directors Absent: None

Staff Present: Shelley Redding, Clerk and Administrator; Jim Fox, Chief of Operations; Wade Holland, Customer Services Manager

Public Present: Ann Elliott, Woody Elliott

2. Public Expression

Woody Elliott expressed interest in MWPA updates including evacuation route maintenance, the plan for submitting project applications for next fiscal year, and grants for projects. He also expressed an ongoing concern about the fuel load in Tomales Bay State Park.

3. Approval of Minutes: Regular Meeting of November 18, 2020

M/S Whitney/Donohue to approve the minutes of the Regular Meeting of November 18, 2020.

Roll Call Taken: AYES 5, NOES 0

4. Management Report

Financial Reports: Administrator Redding presented the financial reports for November. Director Emanuels asked why Personnel and Administrative expenses are running under budget for the personnel expenses and the Administrative expenses. Administrator Redding noted that for the Personnel expenses, there are prior year allocations that are awaiting auditor adjustments. The Administrative expenses may be over budgeted since the budget was created based on prior year activity and a budget review will be conducted in January. She also noted that the Balance Sheet will be re-organized and simplified for better understanding of the District's financial position.

2019/2020 Audit Update: Administrator Redding reported that the auditor is preparing the report for the State Controller office that is due in January. The Auditor anticipates the audit will be completed in February.

BOARD OF DIRECTORS: **KENNETH J. EMANUELS**, PRESIDENT • **DAKOTA WHITNEY**, VICE PRESIDENT
KATHRYN DONOHUE, TREASURER • **BRENT JOHNSON** • **DAVID PRESS**



SHELLEY REDDING, ADMINISTRATOR • **JAMES K. FOX**, CHIEF OF OPERATIONS

Capital Projects Accounting, November 2020: Administrator Redding presented a corrected report accounting for active capital projects. Director Donohue asked about the Capital Projects planning document that was presented at the previous meeting. Administrator Redding reported that the report is being reviewed by the Chief of Operations and will be presented at a future meeting.

Tenney Tanks Replacement Project Update: Administrator Redding presented the detailed accounting report for the project that shows the expenses since the beginning of the project. Also presented was a document that shows the timeline of activity used for reference purposes to create the quarterly project reports for the State Water Resources Control Board. Director Donohue noted the Technical Specifications had been returned for final review and approval; she asked when the review will be completed and the final packet will be prepared for the call for bids. Chief Fox noted that it should be complete by the end of the current week.

MWPA Update: Administrator Redding presented a report from the MWPA that outlines the shaded fuel break restoration project between Seahaven and Tomales Bay State Park. Director Press asked if there was a map of the project area; Chief Fox affirmed that maps are available. Chief Fox reported that he met with Christie Neill of Marin County Fire to survey the area and meet with homeowners about access for the project. Former Fire Chief Mike Meszaros attended to provide information about the previous mitigation project. After the meeting, Capt. Neill met with the contractors for a walk-through of the project area for their bid submissions. Chief Fox reported that the focus of vegetation management by the MWPA is “home-out”: from the residential structures outwards. They will concentrate efforts and grants where homeowners have been active in implementing mitigation efforts on their property. Chief Fox noted that both the MWPA Board of Directors and the MWPA Operations Committee determine the priority of projects, and that State Parks is responsible for the vegetation management plan within their property. President Emanuels asked staff to draft letters to State legislative representatives advocating for funding for State Parks for this purpose. Director Donohue noted that she has a scheduled MWPA Board meeting on Thursday and will ask about the process for project planning and the grant process.

MERA Update: Administrator Redding did not receive the MERA update document to present and asked to table the MERA Update until next meeting.

Disaster Council Update: Chief Fox reported that the interim Disaster Council Co-Coordinator Connie Morse and Sally Fairfax held a meeting with area coordinators, provided them with new reference books, and are currently reviewing maps. President Emanuels asked if they have been contacting neighborhood liaisons because he had not heard from anyone. Chief Fox stated he would follow up to make sure that they have his contact information.

5. Water System Report: November 2020

Superintendent Fox submitted a written Water System Report for November. The water conservation efforts by the community have been successful with 18% decrease in usage from October. President Emanuels asked about communicating with the public about water supply issues during a power outage. Chief Fox noted that during power outages the generator at F1 cannot provide sufficient power to keep the entire plant in operation, which reduces the amount of finished water that can be produced. The F3 plant does not have a generator at all, so providing a generator at F3 is a higher priority at this time than upgrading the generator at F1. During a storm, the treatment plants are usually shut down until the creeks become clear of storm-caused debris. Director Johnson suggested that the District develop a broader resiliency plan that includes expanded water sourcing and adequate backup power. He suggested accessing resources that may be available from the CSDA. President Emanuels asked how communication with the public is handled. Staff noted that the Disaster Council's communications network can be

activated, signs can be posted along roadways, and emails can be sent to customers.

6. Fire Department Report: November 2020

Chief Fox submitted a written Fire Department Report for November. He reported that drills and trainings have been suspended until the County lifts the current stay-at-home order. He has been sending online training videos and references to informative YouTube videos to volunteers. He also reported that Engine 381 passed its smog test.

7. Approval of Expenditures and Credit Card Charges

Administrator Redding presented the November 2020 expenditures list and the November 2020 Cal Card statements for S. Redding and J. Fox. Director Emanuels noted on the expenditures report a payment to Kaaren Gann, former General Manager/Accountant. Administrator Redding reported that Gann was asked to assist with Property Tax Reconciliation and audit preparation items. Administrator Redding also noted the eBay purchase on the Cal Card Statement was for 10 sets of turnout gear that will replace older gear for the volunteers.

M/S Donohue/Press to approve the listed expenditures for November 2020 and credit card charges invoiced in November 2020. Roll Call Taken: AYES 5, NOES 0

8. Ordinance 98-2020: Amendment to Regulation 117, Water Shortage Emergency

Staff presented for review and approval an ordinance that amends the current water shortage emergency Regulation 117 to clarify the restrictions on installing new landscaping during a declared water shortage emergency.

M/S Whitney/Donohue to adopt Ordinance 98-2020 as submitted. Roll Call Taken: AYES 5, NOES 0

9. Resolution 256-2020: Temporary Water Rate Relief for Customers Impacted Economically by the COVID-19 Pandemic

President Emanuels asked why customers who may need rate relief are not enrolled in the Lifeline program. Staff member Holland stated that Lifeline program enrollment is open once a year and in effect on a fiscal-year basis each year; also, it reflects the applicant's prior-year income. The proposed program is expected to be temporary and to be focused on current financial issues caused by the coronavirus pandemic.

M/S Whitney/Johnson to adopt Resolution 256-2020 as submitted. Roll Call Taken: AYES 5, NOES 0

10. Volunteer Limited Compensation & Employee Stipend Policy: Approve Update to Policy

Administrator Redding presented the amendment to the policy which adds a training stipend of \$10.00 per event, increases the on-call duty pay from \$50.00 to \$75.00, and clarifies the reimbursement to volunteers for purchases of personal gear.

M/S Whitney/Johnson to approve the updated Volunteer Limited Compensation Policy as submitted. Roll Call Taken: AYES 5, NOES 0

11. Volunteer Appreciation: Approve Volunteer Recognition in Lieu of Holiday Party

Staff presented a plan to purchase gift cards from local businesses to recognize and thank the volunteers of the District for their service to the community. Director Whitney expressed an interest to make the range between \$50 and \$75 per gift.

M/S Johnson/Donohue to approve the Volunteer Recognition plan with gift cards from local businesses within a range of \$50 to \$75 per volunteer. Roll Call Taken: AYES 5, NOES 0

12. Replacement of Firehouse Heating System: Approve Firehouse Heating System Replacement

Staff recommended the option of replacing the existing wall heaters in the meeting room and the office with newer models. Director Johnson restated his concern for hot weather and smoke days from potential future fire seasons that make the air unsafe in the office. Having a heating and cooling system would benefit staff. The component of the backup power option for the system is a concern and should be included in a resiliency plan.

M/S Donohue/Whitney to approve the proposed heating system replacement as submitted. Roll Call Taken: AYES 5, NOES 0

13. Committee Meetings/Reports**Recruitment Plan Update for Fire Chief Position**

Administrator Redding reported that she has been communicating with the Personnel Committee about the recent updates to the recruitment plan. There had been a meeting scheduled with Marin County Fire Chief Jason Weber, but it was cancelled after the County ordered a pandemic lockdown the same day. Chief Weber is planning to schedule the meeting via Zoom before the Christmas holidays. Additionally, Nelson Staffing was contacted about possible recruitment services and staff was provided a sample hiring brochure and agreement that outlines their policies. President Emanuels expressed his interest in making sure we move forward on recruitment as soon as possible.

14. Announcements, Next Meeting, Adjournment

The next regular meeting is scheduled for January 27, 2021, at 9 a.m. via Teleconference/Video.

President Emanuels adjourned the meeting at 10:25 a.m.

These minutes were approved by the Board of Directors at the regular meeting on February 24, 2021.

Attest: /s/

Shelley Redding, Clerk of the Board

Date: 2/24/2021



Inverness Public Utility District
Board Meeting February 24, 2021

Agenda Item No. 5

Management Report

Clerk S. Redding and J. Fox

- FY 2021 Financials
 - Financial Reports
 - 2019/20 Audit Update
 - Capital Projects Accounting December 2020 & January 2021
- MWPA Update
- Inverness Disaster Council (IDC) Update
- MERA Update
- Marin LAFCo

Inverness PUD
Profit & Loss by Fund
July 2020 through January 2021

	DISTRICT	FIRE	WATER	TOTAL
Ordinary Income/Expense				
Income				
N 600 · Property Tax Income				
600-01 · Ad Valorem Property Taxes	373,738	0	0	373,738
Total N 600 · Property Tax Income	373,738	0	0	373,738
N 700 · Water Charges				
700-01 · Basic Charges	0	0	224,950	224,950
700-02 · Usage Charges	0	0	56,204	56,204
700-03 · Cross Connection Fees	0	0	648	648
700-04 · Miscellaneous Charges	0	0	90	90
Total N 700 · Water Charges	0	0	281,892	281,892
N 710 · Misc. Income				
710-02 · Other Income	347	800	625	1,772
710-05 · Chipper Day Income	0	3,560	0	3,560
710-06 · New Service Connection Fee	0	0	7,700	7,700
710-07 · Interest Income	40	0	0	40
Total N 710 · Misc. Income	387	4,360	8,325	13,072
Total Income	374,125	4,360	290,217	668,702
Gross Profit	374,125	4,360	290,217	668,702
Expense				
N 810 · Personnel Expenses				
810-01 · Management	51,268	28,429	28,429	108,127
810-02 · Operations Personnel	0	25,437	119,043	144,480
810-03 · Administrative Personnel	7,787	0	14,962	22,749
810-04 · Employer Payroll Taxes	4,861	4,352	11,248	20,462
810-05 · Fire Wages - Staff	0	56	0	56
810-06 · Duty Officer	0	850	150	1,000
810-07 · Health Insurance Premiums	26,579	21,784	42,715	91,079
810-08 · Retirement Premiums	6,618	11,133	19,931	37,682
810-09 · Unfunded Accrued Liability	26,612	0	0	26,612
810-10 · Accrued Vacation	0	1,500	1,821	3,321
810-11 · Workers Comp Insurance	515	7,620	11,069	19,204
Total N 810 · Personnel Expenses	124,241	101,161	249,369	474,771
N 830 · Dispatch & Communications				
830-01 · Radio/Pager Repair	0	428	0	428
830-02 · Commo Supplies	0	5,956	0	5,956
830-03 · MERA Operations	0	10,431	0	10,431
830-04 · MERA Bonds	0	11,978	0	11,978
830-05 · MERA New Financing	0	1,121	0	1,121
Total N 830 · Dispatch & Communications	0	29,914	0	29,914
N 833 · Collection & Treatment				
833-01 · Chemicals	0	0	2,765	2,765
Total N 833 · Collection & Treatment	0	0	2,765	2,765
N 835 · Lab & Monitoring				
835-01 · BacT & Raw Samples	0	0	2,444	2,444
835-02 · Periodic Samples	0	0	2,808	2,808
835-03 · Lead & Copper	0	0	855	855
Total N 835 · Lab & Monitoring	0	0	6,107	6,107

Inverness PUD
Profit & Loss by Fund
July 2020 through January 2021

	DISTRICT	FIRE	WATER	TOTAL
N 840 · Maintenance & Utilities				
840-01 · Equipment Maintenance	0	365	666	1,031
840-02 · Building Maintenance	0	2,072	672	2,745
840-03 · Grounds Maintenance	0	452	0	452
840-04 · Tank Maintenance	0	0	268	268
840-05 · Collection & Treatment Maint.	0	96	4,802	4,898
840-06 · Distribution System Maintenance	0	0	3,906	3,906
840-07 · Collection-Treatment Utilities	0	0	27,191	27,191
840-08 · Distribution System Utilities	0	0	537	537
840-09 · Firehouse Utilities	0	3,529	0	3,529
840-10 · SCADA Maintenance	0	0	3,454	3,454
Total N 840 · Maintenance & Utilities	0	6,515	41,496	48,011
N 843 · Fire Prevention				
843-02 · Chipper Day Expenses	0	6,583	0	6,583
Total N 843 · Fire Prevention	0	6,583	0	6,583
N 844 · Storage & Distribution				
844-01 · Telemetry	0	0	1,124	1,124
844-03 · Miscellaneous	0	0	2,040	2,040
Total N 844 · Storage & Distribution	0	0	3,164	3,164
N 845 · Supplies & Inventory				
845-01 · Supplies and Inventory	-69	1,878	3,779	5,587
845-02 · Personal Protective Equipment	0	9,611	60	9,671
Total N 845 · Supplies & Inventory	-69	11,489	3,839	15,259
N 850 · Training				
850-01 · Volunteer Training	0	1,590	0	1,590
850-02 · Certification & Courses	0	0	60	60
850-03 · Volunteer Appreciation	0	1,650	0	1,650
850-04 · Volunteer Stipends	0	1,650	0	1,650
Total N 850 · Training	0	4,890	60	4,950
N 860 · Vehicle Operations				
860-01 · Gas & Oil	0	2,218	2,085	4,303
860-02 · Repairs & Service	0	896	2,258	3,155
Total N 860 · Vehicle Operations	0	3,114	4,344	7,458
N 870 · Administration				
870-01 · Telephone, Internet, Cable	1,385	941	0	2,326
870-02 · Dues & Publications	3,368	836	1,815	6,020
870-03 · Insurance	0	15,000	17,704	32,704
870-04 · Financial Reporting/Audit	4,100	0	0	4,100
870-05 · Office Supplies, Postage, Fees	3,998	23	138	4,159
870-06 · Bank & Payroll Charges	5,679	0	0	5,679
870-09 · Travel & Meetings	425	0	0	425
870-10 · Public Relations & Outreach	1,995	0	2,224	4,218
870-11 · Office IT Support	1,080	0	0	1,080
870-12 · Billing & Collections	1	0	2,702	2,703
870-13 · Disaster Council	320	1,122	0	1,442
870-14 · Miscellaneous	-0	847	6	853
870-15 · Other Agency Assessments	608	0	3,406	4,013
Total N 870 · Administration	22,959	18,769	27,995	69,723
Total Expense	147,131	182,436	339,138	668,705
Net Ordinary Income	226,994	-178,076	-48,921	-4
Net Income	226,994	-178,076	-48,921	-4

Inverness PUD
Balance Sheet
As of January 31, 2021

	Jan 31, 21
ASSETS	
Current Assets	
Checking/Savings	
1-103 · Checking B of A (W)	489,944.88
Total Checking/Savings	489,944.88
Accounts Receivable	
1-130 · Water Customers (W)	-65,037.15
1-138 · Other A/R (W)	236.39
2-136 · Property Taxes (F)	9,604.43
3-138 · Other A/R (D)	-6,364.60
Total Accounts Receivable	-61,560.93
Other Current Assets	
Prepaid Expenses	
1-146 · Other Prepays (W)	321.50
3-146 · Other Pre-Paid Expenses	706.45
Total Prepaid Expenses	1,027.95
1-110 · LAIF - Uncommitted (W)	24,976.51
1-116 · LAIF-Capital Projects (W)	-12,241.65
1-117 · LAIF-Customer Deposits (W)	6,818.43
1-118 · LAIF-Accrued Vacation (W)	27,275.74
1-120 · LAIF- Main Replacement (W)	27,275.73
1-121 · LAIF-Tank Replacement (W)	47,733.03
1-123 · LAIF-Vehicle Replacement (W)	27,275.73
1-124 · LAIF-Emergency Reserves (W)	222,757.35
1-126 · LAIF Assigned Funds (W)	-1,700,519.00
2-115 · Payroll Clearing (F)	277.05
2-118 · LAIF-Accrued Vacation (F)	27,275.74
2-122 · LAIF-Equipment Replacement (F)	81,827.20
2-123 · LAIF-Vehicle Replacement (F)	27,275.73
2-124 · LAIF-Emergency Reserves (F)	272,757.35
2-126 · LAIF Assigned Funds (F)	1,604,904.00
3-125 · LAIF-CalPERS Liability	272,757.35
3-126 · LAIF - Assigned Funds	95,615.00
Total Other Current Assets	1,055,069.24
Total Current Assets	1,483,453.19
Fixed Assets	
1-160 · Collection System (W)	352,967.24
1-170 · Distribution System (W)	1,084,474.78
1-180 · Tanks (W)	1,062,275.72
1-190 · Treatment Plants (W)	1,371,898.43
1-195 · Wells (W)	71,498.98
1-200 · Accumulated Depreciation	-2,491,472.68
1-250 · Vehicles (W)	33,006.05
1-251 · Field Equipment (W)	22,583.61
1-260 · Office Equipment (W)	4,507.72
1-261 · Land (W)	66,319.95
1-262 · Startup Costs	33,887.00
1-300 · Accumulated Depreciation (W)	-92,770.47
2-175 · Buildings (F)	179,065.76
2-180 · Tanks (F)	16,000.00
2-250 · Vehicles (F)	365,810.95
2-251 · Equipment (F)	162,013.30
2-252 · Communications Equipment (F)	69,950.09
2-253 · Personal Gear (F)	26,283.52
2-255 · Furnishings (F)	11,758.95
2-260 · Office Equipment (F)	24,446.03
2-280 · Other Fixed Assets (F)	58,449.10
2-300 · Accum. Depreciation-GF WIP	-890,684.63
Total Fixed Assets	1,542,269.40

Inverness PUD
Balance Sheet
As of January 31, 2021

	Jan 31, 21
Other Assets	
Construction in Progress	
1-371 · Water Work in Progress	
1371-22 · Tenney Tank Replacement	94,563.20
1371-23 · Colby Tank Replacement	3,633.75
1371-25 · Control & Monitoring Program	81,196.30
1371-28 · D4	30,000.00
1371-29 · 2015 Chev Utility Vehicle	38,987.16
Total 1-371 · Water Work in Progress	248,380.41
Total Construction in Progress	248,380.41
1-299 · OPEB Prefunding (W)	86,956.88
391 · Deferred Outflows (pension)	37,267.00
4-100 · Unknown	104,475.00
4-101 · Amount to be provided	159,022.00
Total Other Assets	636,101.29
TOTAL ASSETS	3,661,823.88
LIABILITIES & EQUITY	
Liabilities	
Current Liabilities	
Accounts Payable	
20000 · Accounts Payable	16,142.76
Total Accounts Payable	16,142.76
Credit Cards	
2670 · US Bank Cal Card	
XX-6477 · Cal Card - Eichastaedt	150.83
2670 · US Bank Cal Card - Other	-2,968.58
Total 2670 · US Bank Cal Card	-2,817.75
Total Credit Cards	-2,817.75
Other Current Liabilities	
1-405 · Accounts Payable (W)	742.63
1-410 · Payroll Tax Payable (W)	68.01
1-415 · Accrued Vacation (W)	28,517.35
1-416 · Deferred Inflows Pension	33,130.00
1-417 · OPEB Liability (W)	397,795.00
1-418 · Net Pension Liability (W)	270,855.00
1-420 · Retirement Payable (W)	1,649.46
1-430 · Customer Deposits (W)	8,175.15
1-435 · Deferred Revenue - Water	1,653.20
1-440 · Unearned Income (W)	398.25
2-410 · Payroll Tax Payable (F)	68.01
2-415 · Accrued Vacation (F)	14,871.77
2-420 · Retirement Payable (F)	2,927.74
3-415 · Compensated Absences	3,186.00
4-427 · OPEB Liability	170,484.00
426 · Deferred Inflows (pension)	14,199.00
Total Other Current Liabilities	948,720.57
Total Current Liabilities	962,045.58
Long Term Liabilities	
425 · Net Pension Liability	116,081.00
Total Long Term Liabilities	116,081.00
Total Liabilities	1,078,126.58

2:04 PM

02/19/21

Accrual Basis

Inverness PUD
Balance Sheet
As of January 31, 2021

	<u>Jan 31, 21</u>
Equity	
1-520 · Invest Fixed Assets (W)	1,914,721.05
1-543 · Unrestricted	325,521.96
1-552 · Retained Earnings (W)	-1,208,011.01
2-520 · Invest Fixed Assets (F)	12,236.88
2-541 · General Fund Bal (F)	1,731,889.00
3-3900 · Retained Earnings (D)	6,481.00
3900 · Retained Earnings	-197,769.08
Net Income	-1,372.50
Total Equity	<u>2,583,697.30</u>
TOTAL LIABILITIES & EQUITY	<u><u>3,661,823.88</u></u>

Inverness PUD
Profit & Loss Budget vs. Actual
July 2020 through January 2021

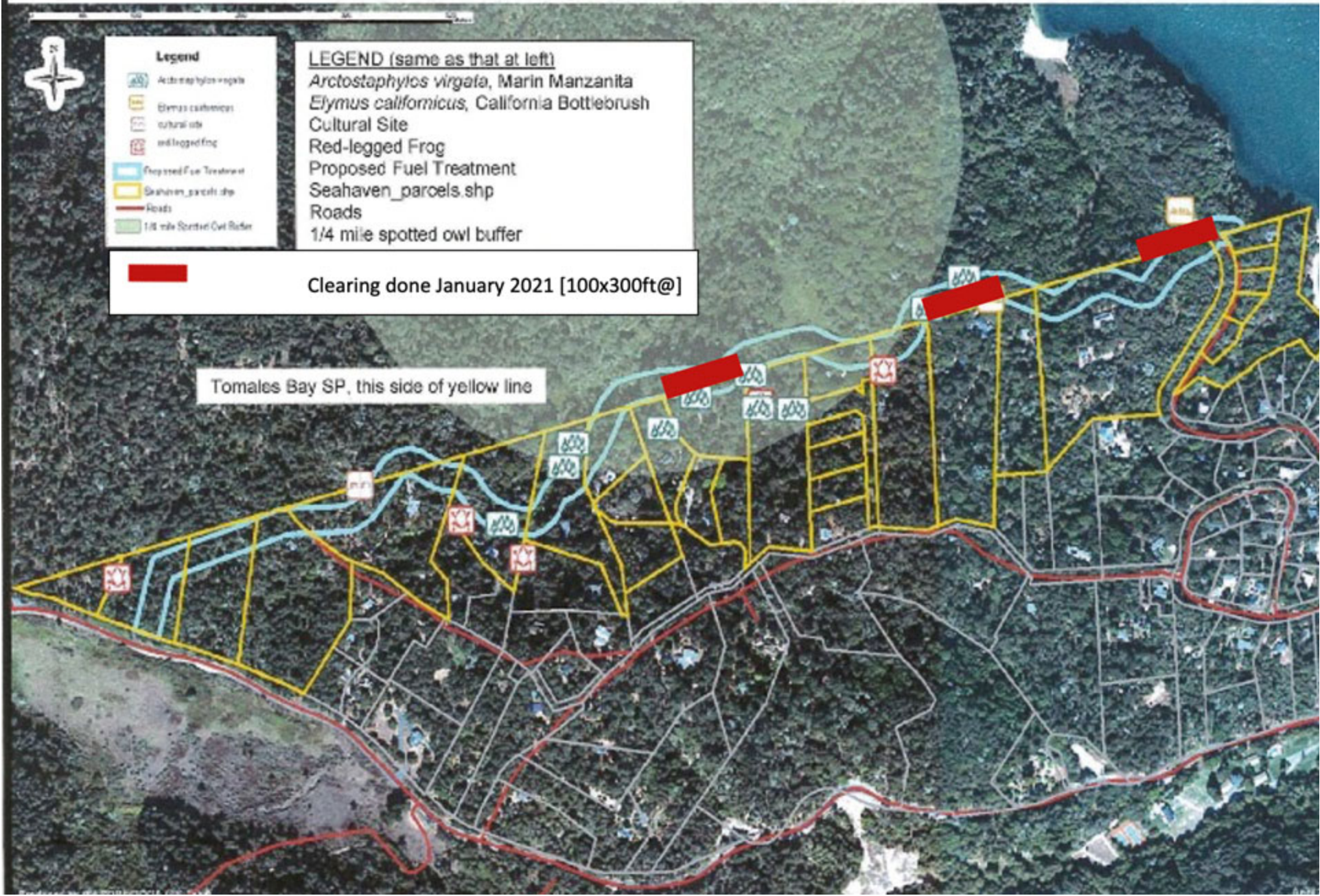
	Jul '20 - Jan 21	Budget	\$ Over Budget
Ordinary Income/Expense			
Income			
N 600 · Property Tax Income	373,737.93	351,495.00	22,242.93
N 700 · Water Charges	281,891.90	284,402.00	-2,510.10
N 710 · Misc. Income	13,071.80	28,740.00	-15,668.20
Total Income	668,701.63	664,637.00	4,064.63
Gross Profit	668,701.63	664,637.00	4,064.63
Expense			
N 810 · Personnel Expenses	474,771.45	463,492.20	11,279.25
N 830 · Dispatch & Communications	29,914.16	25,234.00	4,680.16
N 833 · Collection & Treatment	2,764.84	3,500.00	-735.16
N 835 · Lab & Monitoring	6,107.10	6,525.00	-417.90
N 840 · Maintenance & Utilities	48,011.10	47,530.00	481.10
N 843 · Fire Prevention	6,582.50	4,290.00	2,292.50
N 844 · Storage & Distribution	3,163.77	3,355.00	-191.23
N 845 · Supplies & Inventory	15,258.59	15,745.00	-486.41
N 850 · Training	4,950.39	10,944.00	-5,993.61
N 860 · Vehicle Operations	7,458.11	10,480.00	-3,021.89
N 870 · Administration	69,723.32	82,118.25	-12,394.93
Total Expense	668,705.33	673,213.45	-4,508.12
Net Ordinary Income	-3.70	-8,576.45	8,572.75
Net Income	-3.70	-8,576.45	8,572.75

**Inverness Public Utility District
TENNEY TANK CAPITAL PROJECT REPORT**

			FY1617	FY1718	FY1819	FY1920	FY2021	Active Projects	Completed Projects	Capitalized		
No.	Project Name	Total Budget						Total Am't Spent	Amount Remaining	Total Spent	Total Unspent	Total
Water												
1-371-22	Tenney Tank Replacement Project	\$865,000	\$4,000	\$49,316	\$7,381	\$4,122	\$29,744	\$94,563	\$770,437			\$0
Totals		\$865,000	\$4,000	\$49,316	\$7,381	\$4,122		\$94,563	\$770,437	\$0	\$0	\$0
Grand Totals		\$865,000						\$94,563	\$770,437	\$0	\$0	\$0

Date	Description	Expense Amount	5% Retention	Invoiced Receivable	Balance	FY Total						
	Beginning Balance	0.00			0.00							
6/30/2017	End of year balance					4,000.00	FY1617					
6/30/2019	End of year balance					49,316.32	FY1718					
6/30/2019	End of year balance					7,381.38	FY1819					
6/30/2020	End of year balance					4,121.60	FY1920					
8/18/2020	Riley F. Hurd III - Legal Review Fil	1,000.00			-65,819.30							
9/8/2020	Riley F. Hurd III - Legal Review Fil	22.88			-65,842.18							
9/29/2020	Signs.Com - Project Sign	72.77			-65,914.95							
10/15/2020	Brelje & Race Engineers	10,934.75			-76,849.70							
11/15/2020	Brelje & Race Engineers	11,752.50			-88,602.20							
11/24/2020	Bauer & Associates - Geotech	1,988.00			-90,590.20							
12/15/2020	Brelje & Race Engineers	1,817.50			-92,407.70							
1/12/2021	Pt.Reyes Light	475.50			-92,883.20							
1/15/2021	Brelje & Race Engineers	1,680.00			-94,563.20							
1/31/2021	Current year balance					29,743.90	FY2021 to date					

Seahaven Parcel Map



Legend

- Arctostaphylos virginica
- Elymus californicus
- Cultural Site
- Red-legged Frog
- Proposed Fuel Treatment
- Seahaven_parcels.shp
- Roads
- 1/4 mile Spotted Owl Buffer

LEGEND (same as that at left)

- Arctostaphylos virginica*, Marin Manzanita
- Elymus californicus*, California Bottlebrush
- Cultural Site
- Red-legged Frog
- Proposed Fuel Treatment
- Seahaven_parcels.shp
- Roads
- 1/4 mile spotted owl buffer

Clearing done January 2021 [100x300ft@]

Tomales Bay SP, this side of yellow line



Fact Sheet

Bay Area State Parks and the Wildland Urban Interface

The California Department of Parks and Recreation (State Parks) maintains wildland parks in order to preserve the natural, cultural, and scenic features for the people of California. Many of these native ecosystems contain plants that can become flammable under specific environmental conditions of high wind, high temperature and low humidity. These ecosystems inevitably burn either from natural or human causes.

State Parks policy permits vegetation modification on Department lands only when, 1) required by state law to clear around its structures/facilities, 2) previous legal commitments have been made to allow the creation and maintenance of fuel modification areas, 3) it is critical to the protection of life or park resources, or 4) park vegetation up to 130 horizontal feet from a non-Department habitable structure must be modified for a neighbor's defensible space.

What you can do as a State Parks Neighbor

Buildings constructed adjacent to park units in the wildland-urban interface zone are at risk from wildland fires. The design and maintenance of the structure itself is the most important factor in building survivability during a wildfire. Defensible space and hardening your home (i.e., making your home less ignitable) will dramatically increase the chance of your house surviving a wildfire and help protect firefighters.

Contact your local Fire Agency to obtain Home Hardening and Defensible Space guidelines for your property and ensure your property meets those guidelines.

Determine your defensible space zone by measuring the distance from the closest exterior wall of your home to the property line. If this distance is 100 feet or greater, all of the defensible space can be created on your property. If this distance is less than 100 feet it may be desirable, depending on the type of vegetation present, to create some of the defensible space on neighboring property. If so, determine who owns the neighboring land.

As a State Parks neighbor, you or your contractor can conduct vegetation work in the State Park through our Boundary Vegetation Modification Right of Entry (BVMROE) Permit process.* The BVMROE Permit is intended to give State Parks neighbors that share a common boundary with a State Park permission to temporarily access State Park land to conduct vegetation work along the boundary in order to achieve defensible space for their home. Homeowner groups can also pool resources and obtain one permit for multiple contiguous properties along a park boundary.

To learn more about obtaining a State Parks Boundary Vegetation Modification Right of Entry permit to complete defensible space for your home, please contact:

Cyndy Shafer, California State Parks Bay Area District
(707) 769-5652 x208

* A permit fee may be required. It may take up to a week to respond to inquiries regarding permits and processing a permit usually takes several weeks.





NEXT GENERATION PROJECT **December 2020 Governing Board UPDATE:**

- **Key Project Summary Updates**

Mobile radio installation and portable radio distribution for member agencies associated with the Assistance for Firefighters Grant are scheduled to begin installation and distribution in February 2021. Construction Bid Packages are moving forward, with the first package being approved for EOF, Civic Center and Mt. Barnabe sites. The remaining 15 site Bid Packages are in development and will be presented for Board approval in 2021. MERA is working with AT&T at the Tomales site location with the projected goal of sharing a power trench. This will eliminate the need for a second MERA trench and result in cutting costs and additional construction time. Final details are still being negotiated.

- **Next Gen System Training Committee**

MERA's Next Gen System Training Committee has been formed to familiarize members with the upgraded system's interface and functionality. The Training Committee has completed two orientation sessions and began standard committee meetings on 12/08/2020. MERA encourages all our member agencies to participate in the Training Committee to ensure streamlined transition to the Next Gen System and reduce potential troubleshooting issues during System cutover. If your agency has not yet included a staff member as a representative please contact MERA Deputy Executive Officer for the Next Gen System, Dave Jeffries at 707-483-1098 or dave@jeffriespsc.com.

- **Budget Approval**

Following the transition of project implementation to MERA staff and the addition of AECOM to the Next Gen Implementation Team, an updated Construction Schedule and updated Cost Estimate have been prepared. In addition, MERA staff has conducted a Field Survey gathering accurate inventory data of all member agency's MERA equipment and radios. Based on updated calculations of equipment and construction costs, the Governing Board approved a series of recommendations at the 12/09/20 meeting. This includes an increase to the Construction Budget and adjustments to the Equipment Budget, preparing for the beginning of the construction phase of the project in early 2021.

As a reminder, please refer any public or media inquiries regarding the MERA Next Gen System to MERA Deputy Executive Officer for the Next Gen System Dave Jeffries, 707-483-1098 or dave@jeffriespsc.com.

**Our MERA team relies on the input and participation of all of our 25 member agencies!
Please be sure to share the above Project update with others at your agency.**



NEXT GENERATION PROJECT

January 2021 Governing Board UPDATE:

- **Tomales Agreement**

As part of the development process, MERA was approached by the Marin Agricultural Land Trust (MALT) to consider sharing a power trench with AT&T at the Tomales Site. This would eliminate the need for a full-length electrical trench for MERA, resulting in an environmental benefit as well as cost savings. AT&T's Contractor, JFC Construction Inc., has proposed charging MERA \$13,633 for materials and labor. AECOM has reviewed their construction estimates and their proposal and has estimated that accepting this proposal will reduce MERA's construction costs by an estimated \$62,848 in direct costs and reduced contractor markup. Funding will come from the Construction line item. This results in a minor change to our project description that reduces environmental impacts.

- **Bid Packages**

The Construction Phase of the MERA Next Gen Project has been separated into several Bid Packages. The eighteen sites are spread across these Bid Packages as nineteen projects, with Coyote Peak being separated as two projects (Road/Trenching and Site Development). The Governing Board already approved the release of Bid Package #1 (Civic Center, EOF and Mt Barnabe). As circumstances evolved, some of the packages were rearranged, resulting in the creation of Bid Package #1A. Bid Package #1A includes Dollar Hill, Mt. Tiburon, and Stewart Point sites and is being considered for release by the Governing Board on 01/27/21. Once the bidding window closes, MERA staff will return to the Governing Board with a recommendation for the award of the bid. With this approval, six of the nineteen projects will be moving to bid and construction.

- **Member Briefings**

MERA is holding a Member Briefing Presentation in January 2021. This will be an overview of the progress of the Next Gen System Project and other current MERA news. This will be held in two identical Zoom Meeting presentations. A short question and answer period will follow the briefing and MERA representatives will address any questions or concerns from members. Attendance from all member agencies is encouraged.

Our MERA team relies on the input and participation of all of our 25 member agencies!

Please be sure to share the above project update with others at your agency.

Questions? Contact Deputy Executive Officer for the Next Gen System David Jeffries at dave@jeffriespsc.com.

MARIN EMERGENCY RADIO AUTHORITY

c/o Town of Corte Madera
300 Tamalpais Drive
Corte Madera, CA 94925
Phone: 415.927.5050
WWW.MERAONLINE.ORG

REVITALIZING OUR COMMUNITIES

LAFCO IS HERE TO HELP

We understand how difficult the COVID-19 pandemic has been on the staff and operations of cities and special districts, and we are looking forward to emerging from this very difficult period in our collective history. LAFCo is here to help guide the recovery process through proven leadership and fair decision-making that acknowledges and balances competing interests. LAFCo uses its regulatory and planning powers to manage growth and development and promote efficient service delivery. LAFCo has the tools and resources that can help your organization through the next steps.

LAFCOS ARE COMMITTED TO:



1. LEADING THE CONVERSATION WITHOUT BIAS

- Facilitating a constructive discussion with local and regional agencies
- Reaching out to local and regional agencies to identify issues and solutions
- Coordinating agency access to information, programs and resources
- Bringing agencies together by building relationships
- Offering unique local solutions to meet local challenges



2. DEVELOPING MORE EFFICIENT SERVICES

- Building on interagency strengths
- Developing options for efficient and effective services in the new normal
- Connecting agencies to each other for service streamlining
- Giving great weight to proposals that promote improved service delivery to underserved communities while achieving orderly growth patterns



3. PARTNERING TO REBUILD LOCAL ECONOMY IN A BALANCED WAY

- Considering the impacts of LAFCo decisions
- Facilitating economic opportunities based on local circumstances
- Balancing economic growth and conservation of open space and agricultural lands



4. TAKING CRISIS ACTIONS TOGETHER WITH STRESSED AGENCIES

- Helping agencies look at key health indicators (i.e. fiscal, governance)
- Working with agencies to identify internal solutions
- Exploring alternative service delivery options

WE OFFER:

- ✓ Email lists and contacts
- ✓ Connections to other agencies
- ✓ Local stakeholder access
- ✓ Professional affiliations
- ✓ SOI/MSRs/Special Studies
- ✓ Key agency health indicators
- ✓ LAFCo actions: Annexations, activation powers, reorganizations, applications, etc.



Inverness Public Utility District
Board Meeting February 24, 2021

Agenda Item No. 6

Water System Report

- **December 2020 & January 2021 Water Production and System Reports**
- **December 2021 Water Accounting Report**
- **Water Rates Legal Issue**
- **Safety Improvements**



INVERNESS PUBLIC UTILITY DISTRICT

FIRE DEPARTMENT • WATER SYSTEM

POST OFFICE BOX 469

INVERNESS, CA 94937

(415) 669-1414 • Fax (415) 669-1010 • INFO@INVERNESSPUD.ORG

DECEMBER 2020 - WATER SYSTEM REPORT -

End of December Stream-Flows

End of December Statistics	2020	2019	DIVERSION	2020 est. GPM	GPD	2019 GPM
RAINFALL	Recorded at F1	(@ F1)	D1	9	12,960	30
Monthly total (in inches)	2.88"	2.53	D2	16	23,040	46
Year 7/1//2020 -> to end Dec	5.29"	2.77	D3	15	21,600	45
Avg. yearly since 1925 (inches)	37.57"	37.72"	D4	10	14,400	35
*end of Month Streamflows	DEC 2020	DEC 2019	D5	20	28,800	45
*Compare to (approx. gpd) ->	161,280	482,400	D6	19	27,360	45
Jul, Aug, Sep, Oct trend: 84 > 64 > 54 > 119.5 gpm	72	335	D7	14	20,160	75
PRODUCTION: (18% decrease)	2,083,500 gal	2,460,800	D8	9	12,960	14
Average gallons per day ->	67,210	82,027	TOTALS--	112 gpm	161,280	335 gpm
Average gallons per minute ->	46.7	57.0	DEC. DISTRIBUTION SYSTEM PATTERNS			
SOURCES USED	Dec 2020	Dec 2019	USE BY	ZONE	2020	Dec 2019
1 st Valley High Intakes (3) (all)	29 %	78 %	Colby		753,600	32.2%
2 nd Valley High Intakes (3) (all)	31 %	0 %	Tenney		809,700	43.9%
3 rd Valley High Intakes (2) (all)	16 %	20 %	Conner		91,900	3.1%
1 st Valley lower intake	19 %	0 %	Stockstill		309,100	13.7%
2 nd Valley lower (L2)	0 %	0 %	Sea Haven		175,700	7.1%
Wells (W1, W3)	5 %	2 %				100.0 %
TOTAL	100 %	100 %				100 %

(* gpd = gallons per day; gpm = gallons per minute; ppm=parts per million)

Water Quality

All sources Ultra and Nano filtered; chlorine and turbidity correct continuously; no positive coliform bacteria samples from distribution sample grabs. Samples of distribution water tested twice monthly and influent raw water are being collected once a month for lab analysis of coliform content. Average CL₂ dose at F1 → 0.64 parts per million (ppm); F3 → > 0.72 ppm

Major Activities

- Monthly reports sent to CA RWQCB
- D4 new pipeline coupling issue: refitted and realigned
- Watershed roads clearing and water-bar maintenance
- Wright's Slide 2nd Valley trail and bridge rebuilding work commenced
- Streamflows increased somewhat, but will drop unless new storms appear
- Distribution System meters read; investigated leaks, assisted customers:
- F1 break tank-level control: new tank float switch arrived
- Leak repair on Elgin Way: (cracked fitting on 2" main=> replaced with saddle); repaired Wharf Hydrant in service now
- F3 NANO filter cleaned (CIP) x 2.
- F3 Break-Tank cleaned & disinfected.
- F3 Ultra filter CIP performed
- Augmented Conner solar system with small generator to charge batteries.
- F1 finish turbidimeter failed, replaced with standby
- F1 Nano B: CIP completed preliminary F1 caustic heater failed, replaced and re-insulated bin

Kenneth J. Fox

replaced and re-



INVERNESS PUBLIC UTILITY DISTRICT

FIRE DEPARTMENT • WATER SYSTEM

POST OFFICE BOX 469

INVERNESS, CA 94937

(415) 669-1414 • FAX (415) 669-1010 • INFO@INVERNESSPUD.ORG

JANUARY 2021 - WATER SYSTEM REPORT -

End of January Stream-Flows

End of January Statistics	<u>2021</u>	<u>Jan 2020</u>	DIVERSION	Jan 2021 GPM	Jan 2021 GPD	Jan 2020 GPM
RAINFALL	Recorded at F1	(@ F1)	D1	15	21,600	40
Monthly total (in inches)	4.90"	4.41"	D2	17+	24,700	42
Year 7/1/2020 -> end Jan 2021	10.19"	17.03"	D3	16-	23,000	33
Avg. yearly since 1925 (inches)	37.57"	37.72"	D4	26-	37,400	47
*comparative EOM Streamflow	NOV 2020	DEC 2020	D5	29-	41,720	47
*Compare to (approx. gpd) ->	103,680	161,280	D6	27+	38,880	48
Streamflow trend: Jul, Aug, Sep, Oct gpm=> 84 >64 >54 > 119.5 =>	72 gpm	112 gpm	D7	20	28,800	50
MONTHLY PRODUCTION:	Jan 2021	Jan 2020	D8	5	7,200	15
(Jan 2021 9% below Dec 2020)	1,897,700 gal	1,853,600	TOTALS--	155 gpm	223,300	322 gpm
Average gallons per day ->	61,216 gal	59,794 gal	JANUARY SYSTEM			
Average gallons per minute ->	42.5 gpm	41.50 gpm	DISTRIBUTION PATTERNS			
SOURCES USED	(Jan 2021)	(Jan 2020)	USE BY	ZONE	2021	2020
1 st Valley High Intakes (3) (all)	34 %	80 %	Colby	623,300	32.8%	45 %
2 nd Valley High Intakes (3) (all)	28 %	0 %	Tenney	827,100	43.6%	32 %
3 rd Valley High Intakes (2) (all)	18 %	20 %	Conner	65,100	3.4%	2 %
1 st Valley lower intake	17 %	0 %	Stockstill	259,100	13.7%	14 %
2 nd Valley lower (L2)	0 %	0 %	Sea Haven	123,100	6.5%	7 %
Wells (W1, W3)	3 %	nil %	TOTAL		100.0 %	100 %
TOTAL	100 %	100 %				

(* gpd = gallons per day; gpm = gallons per minute; ppm=parts per million)

Water Quality

All sources Ultra and Nano filtered; chlorine and turbidity correct continuously; no positive coliform bacteria samples from distribution sample grabs. Samples of distribution water tested twice monthly and influent raw water are being collected once a month for lab analysis of coliform content. Average CL₂ dose at F1→ 0.6 parts per million (ppm); F3→ > 0.65ppm

Major Activities

- Monthly reports sent to CA RWQCB
- Sudden Leak on Tenney Distribution system: found to be an open tank drain valve on old 10k tank. / shut
- Watershed roads clearing and water-bar maintenance ongoing
- Wright's Slide 2nd Valley trail and bridge rebuilding work mostly completed. New bridges installed
- Our first significant storm occurred (> 2.5") Streamflows have increased, but will drop unless new storms appear.
- F1 Ultra B and both Nano Filters chemically cleaned (CIP) + Replaced lead element on NF B with new
- F1 UF A has leaking valve, affecting Pressure Decay Tests
- F1 HMI (human-machine interface) went blank, found to be a loose connector
- F3 both Ultra and NANO filters chemically cleaned (CIP)
- D7 trail R&R work commences.
- Conner Tank solar system. Additional batteries and solar panels will be installed. Generator assisting on shady days.
- Colby stairs repaired

Kenneth J. Fox

Water Customer Accounts Receivable Totals, Nov/Dec 2020

- The Accounts Receivable balance on Nov. 1, 2020, consisted of:

Current balances (from bills sent out on Oct. 26)	97,674.50
Past-due balances (6.9%)	<u>7,198.87</u>
Total Accounts Receivable balance on Nov. 1, 2020:	<u>104,873.37</u>
- During Nov/Dec, we received the following payments from our customers:

Electronic payments:	63,403.74	(65.9%)
Payments by check:	32,868.10	(34.1%)
Total payments received:	-	96,271.84
- During Nov/Dec, we posted the following charges to our customers' accounts:

Write-offs:	--	
Adjustments:	--	
Basic charges (future):	74,934.50	(517 Basic charges billed 12/23 for Jan/Feb*)
X-C charges (future):	216.00	(18 Cross-Connection charges billed 12/23 for Jan/Feb)
Usage charges:	7,621.00	(Usage charges billed 12/23 for 10/21 to 12/17†)
Misc. charges:	125.00	
Refused payments:	--	
Refunds:	70.00	(1 closed account credit balance refund)
Total charges posted:		+ 82,966.50
- Thus, the Accounts Receivable balance on December 31 (the end of the period) was: **91,568.03**
(of which 9.5%, or \$8,671.53, is past due)

* Bimonthly Basic Charges (for Jan/Feb): 512 customers @ \$146.00; 1 Lifeline customer @ \$73.00; 3 Lifeline customers at \$36.50; 1 suspended customer @ \$0.00

† Total billed usage was \$12,008.00, less two credits totaling \$4,387.00 (for one prior-period leak adjustment and one prior-period meter read error).

Reconciliation with BofA checking account:

There were no deposits in transit on 12/31/2020. Thus, the A/R balance on the District's books as of 12/31 should also be \$91,568.03.

Scheduled ACH receipts: \$40,900.76 on January 13, 2021 (from 251 customers).

A temporary security debit to IPUD's checking account in this amount will be made on or about January 11, 2021.

Report on Number of Discontinuations of Residential Service (pursuant to paragraph (g) of IPUD Water System Regulation 303 and in compliance with Chapter 6, "Discontinuation of Residential Water Service," of Part 12, Division 104, of the Health and Safety Code (HSC) of the State of California)

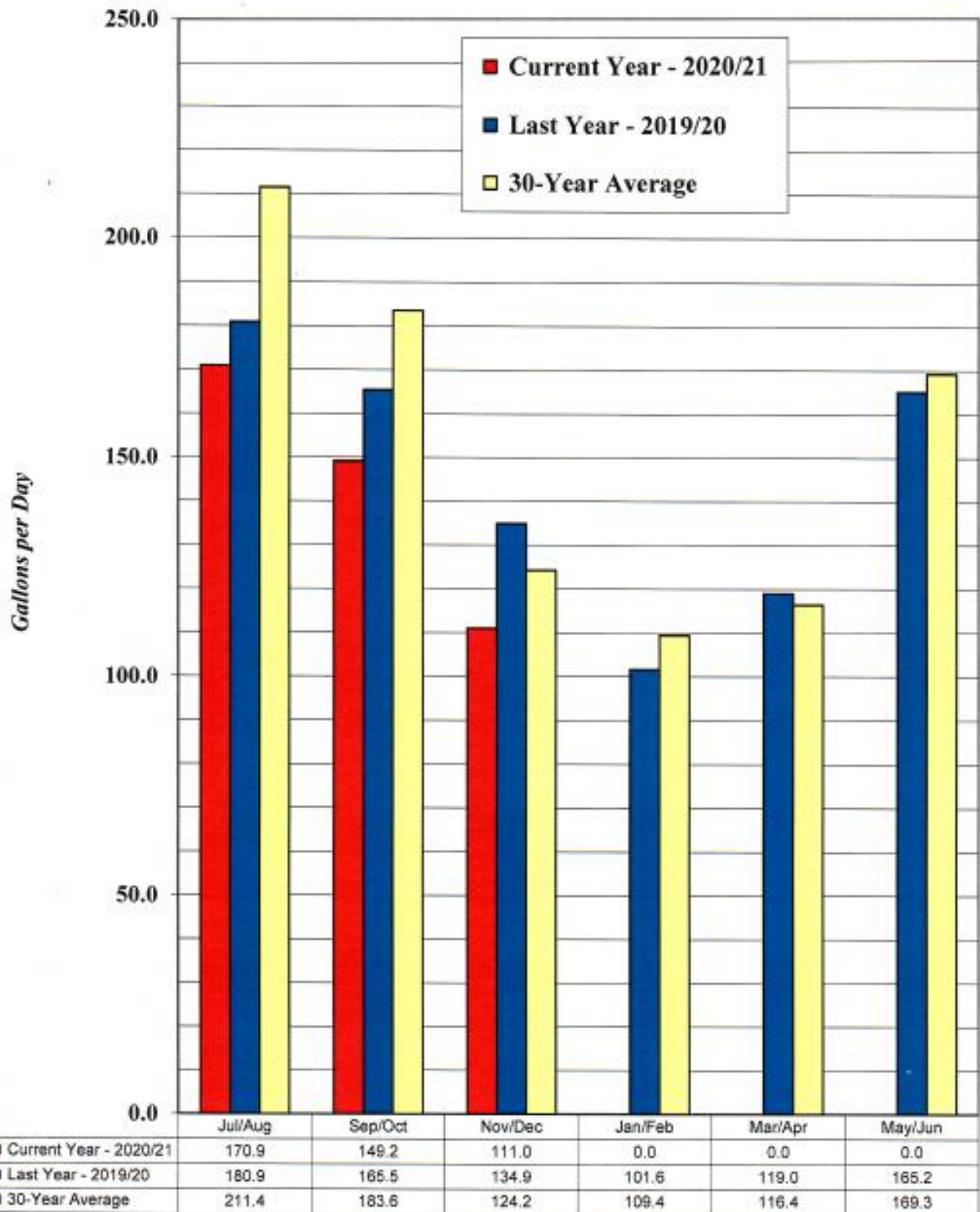
Period covered: November/December 2020

Number of residential services discontinued for inability to pay during the covered period: 0

Number of residential services discontinued for inability to pay during a previous period and still on discontinued status at the close of the covered period: 1

Inverness Public Utility District Water System

Average Daily Water Usage per Active Customer



Cost for lawyers soars in rate war

MMWD

Utility allots \$800K for 2 lawsuits over billing

By Will Houston

whouston@marinij.com

The Marin Municipal Water District is doubling down in its fight against two lawsuits challenging its water fees and seeking refunds on rates deemed unconstitutional.

The district's board of directors voted unanimously this month to enter into a two-year agreement with the Grass Valley-based law firm Colantuono, Highsmith & Whatley. The district will pay up to \$400,000 per year.

The district had already been using the firm to represent it in the two cases, but staff said the complexity of the litigation will require the district to retain the firm for a longer period, requiring the new agreement.

Some ratepayers and one of the organizations suing the district criticized the board for what they argued was needless spending amid a pandemic to defend unfair rate and fee increases.

"Now is the time to get money into the pockets of ratepayers," Larkspur resident Chris Wheaton wrote to the board. "By proposing to fund up to \$400,000 of legal expenses

Cost

FROM PAGE 1

agencies from charging more for a service than it costs to provide it.

"The district takes these matters seriously, and while we cannot comment on the specifics of pending litigation, the board is taking the necessary and appropriate steps to address both cases," district spokeswoman Jeanne Mariani-Belding said Friday.

Marin IJ

Monday, Dec. 21, 2020

to defend large rate increases, you are forcing ratepayers to sue themselves and pay for both sides ..."

"Come to your senses and scale back your spending and rates," Wheaton wrote.

Jack Gibson, president of the water district's board, said the district has a duty to defend its water rates and fees. He said officials have gone through a long and costly vetting process to ensure they comply with the state constitution.

"I'm a little shocked that we're getting criticized for not defending the district on the cheap," Gibson said. "We hired the most preeminent firm in the complex world of utility rates."

While the lawsuits are separate, both allege MMWD violated the voter-approved Proposition 218 from 1996. The law prohibits government

COST » PAGE 4

on the size of customers' water meters.

The district increases the fee charges as water meter sizes increase because of the potential demand that larger water meter sizes could have on the utility's system. COST argues these fees should be charged based on actual water use.

"If you're using lots and lots of water, and there are a few big water users around the district, you should be paying a lot more," COST attorney Walt McNeill said. "That works, and it would work quite well in the Marin

One lawsuit, by Mill Valley ratepayer Anne Walker, has been in litigation since 2015. Earlier this year, Marin County Superior Court Judge Stephen Freccero made a key and potentially costly ruling against the water district.

Freccero found that the previous water rate structure in place from 2011 to 2015 violated Proposition 218. The rate structure was meant to encourage conservation by charging higher rates for people who used more water.

Walker argued that this tiered rate system was not based on the actual cost of the water service. Other water districts throughout the state had been using a similar system and were also challenged.

"After reviewing the record, the court can only conclude that there is no correlation between the rates in the different tiers and the cost of water service in those tiers," Freccero wrote in his ruling on March 30.

This rate structure had been in effect since 2004, according to Walker's attorney, Beau Burbidge, until it was changed by the district in 2016. The court is now deciding how many ratepayers were overcharged and how much they should be refunded, Burbidge said. Any refunds would be limited to rates charged in 2014 and 2015, Burbidge said.

"Essentially it's been very clear that the Marin Municipal Water District has not complied with the constitutional requirements," Burbidge said Friday. "That has been known from about day one. We've been fighting that for five years. We expect a further fight from them and it's disappointing that a public agency that serves all of these customers and found to be overcharging these customers has done very little to try to remedy that wrong that has been done by them."

The next court date for the Walker case is scheduled for April 27.

The second lawsuit was filed in 2019 by the watchdog group Coalition of Sensible Taxpayers, or COST. The suit has many similarities to the Walker case, but instead targets two fixed water fees charged to ratepayers.

COST argues that the new capital maintenance fee, which MMWD adopted in June 2019, and the district's watershed maintenance fee violate Proposition 218. Both fees are charged based

Municipal Water District, but they decided not to go that direction."

The class-action lawsuit seeks to invalidate the fees and get all fee payments refunded.

The capital maintenance fee was adopted as a way for the district to pay for decades' worth of upgrades within the district's 22,000-acre watershed on Mount Tamalpais. The district is using the fee to pay for projects with cash rather than through bonds as it has normally done. This method would work to prevent customers from having to cover millions of dollars in interest costs that they would have to pay over the decades on the bonds, but it also comes with more upfront costs for ratepayers.

The majority of the district's 60,000 customer accounts have 5/8th-inch or 1-inch meters, which equate to a \$164 or \$409 fee respectively each year. Following complaints, the district began allowing customers who have larger meter sizes — because of circumstances such as having to install fire sprinklers in their homes or to maintain adequate water pressure — to lower their fee amount based on how much water they use.

McNeill argues this after-the-fact change requires customers to file an application with the district before any reduction can be approved.

"Their obligation is to give you a correct fee as you start paying that fee on the first bill," McNeill said. "The burden is not on the water user to correct their mistake. It's their obligation to make sure that they correct their mistake. It's bizarre and it's upside down."

The watershed maintenance fee ranges from about \$10 to \$26 for most customers and is used for fire prevention, protecting habitats, improving water quality and maintaining recreational sites on the watershed.

A case management hearing in the COST lawsuit is scheduled for Jan. 15 in Marin County Superior Court.

From: [Jeff DeGroot](#)
To: [Jeff DeGroot](#)
Subject: 14 8022
Date: Friday, January 9, 2020 2:46:40 PM

Here: it is all it's glory.
Jacob has before photographs, here's the after.











Inverness Public Utility District
Board Meeting February 24, 2021

Agenda Item No. 7

Fire Department Report

- **December 2020**
- **January 2021**

FIRE DEPARTMENT REPORT

December 2020

INCIDENTS:

<i>#</i>	<i>Date</i>	
#20-155	12-04	Public Assist @ 12785 SFD. Lift Assist.
#20-156	12-04	Carbon Monoxide Alarm @ Highland Way. Found malfunctioning heater.
#20-157	12-06	EMS @ Via de la vista for possible stroke. Helicopter transport.
#20-158	12-10	Propane Odor @ Pine Hill Drive. No merit-empty tank odor issue.
#20-159	12-13	Wires Down @ Dundee. Phone lines only.
#20-160	12-20	EMS @ Perth Way for a dog bite. Private transport.
#20-161	12-20	EMS mutual aid @ Shoreline school for a helicopter LZ.
#20-162	12-20	EMS @ Aberdeen for a lift assist.
#20-163	12-23	EMS @ Aberdeen for medical alarm. Accidental.
#20-164	12-25	Public Assist @ Madrone for a lift assist.
#20-165	12-26	EMS Assist for an LZ. Cancelled at time of dispatch.

TRAININGS:

No in person trainings due to COVID precautions. Training links emailed to volunteers.

ACTIVITIES AND MAINTENANCE:

1. Smog of Engine 381 in Petaluma.
2. Meeting with new Inverness Disaster coordinators Connie Morse and Sally Fairfax.
3. MERA training committee zoom meeting.
4. Seahaven Fuel Modification Zone walk through with State Park and MCFD.
5. Inverness Disaster Council zoom area coordinators meeting.
6. OES zoom COVID meetings every Wednesday.
7. MERA zoom board meeting.
8. Fire COVID testing zoom training.
9. Initial COVID vaccination for IFD volunteers requesting vaccination.

PERSONNEL:

Mike Meszaros, Jim Fox, Ken Fox, Tom Fox, Burton Eubank, Brian Cassel, Jeff McBeth, Tim Olson, Dennis Holton, Brett Miller, Roy Pitts, David Briggs, John Roche, David Wright, Kai Heimpel, Tim Olson, Sabrina Meyerson, Alex Frankel, Davis Allen, Nikki Spencer, Michael Duncan, Ian Duncan, Greg Eastman.

Jim Fox, Chief

FIRE DEPARTMENT REPORT

January 2021

INCIDENTS:

#	Date	
#21-001	01-01	EMS @ Via de la Vista for cardiac problem. No transport.
#21-002	01-01	EMS @ Sir Francis Drake for possible allergic reaction. M-94 code two transport.
#21-003	01-04	Public Assist @ Camino del Mar for tree blocking lane.
#21-004	01-12	Public Assist @ Tomales Bay for vessel adrift. NPS boat retrieved.
#21-005	01-13	EMS @ Via de la Vista for fall victim. M-94 code two transport to KTL.
#21-006	01-17	EMS Assist @ Cypress St, Pt. Reyes for helicopter LZ. Cancelled
#21-007	01-19	Public Assist @ SFD and Argyle for tree blocking lane.
#21-008	01-19	Wires Down @ Aberdeen & Cameron. Standby for PG&E.
#21-009	01-19	Tree Down @ 325 Aberdeen blocking road. Cleared road.
#21-010	01-21	EMS @ Heather for possible overdose. M-94 code two transport.
#21-011	01-21	EMS @ Rannoch for cardiac problem. M-96 code two transport to KTL.
#21-012	01-23	EMS Assist for LZ @ West Marin School. Cancelled before arrival.
#21-013	01-23	EMS @ Park Ave. for weakness. M-94 code two transport to KTL.
#21-014	01-24	Vehicle Accident @ Pt. Reyes Pet. Rd & Shoreline. Cancelled enroute.
#21-015	01-24	Tree and Wires down @ 85 Inverness Way. Road blocked. Standby for PG&E.
#21-016	01-26	EMS @ Via de la Vista for fall victim. M-94 code two transport to KTL.
#21-017	01-26	EMS @ Vision Road for fall victim. M-94 code two transport to KTL.
#21-018	01-26	Tree & Wires down @ 150 Laurel. (Inverness Park) Standby for PG&E.
#21-019	01-27	Wires Down blocking lane of SFD. Standby for PG&E.
#21-020	01-27	Lift Assist @ Aberdeen.
#21-021	01-27	Chimney Fire @ Kehoe Way. Out on arrival.
#21-022	01-28	EMS @ Aberdeen for fall victim. Non-injury lift assist only.
#21-023	01-31	EMS @ Balmoral for back pain. M-94 code two transport to KTL.

TRAININGS:

No in person trainings due to COVID precautions. Training links emailed to volunteers.

ACTIVITIES AND MAINTENANCE:

1. Meeting with Inverness Disaster coordinators Connie Morse and Sally Fairfax.
2. MERA operations committee zoom meeting.
3. OES zoom COVID meetings every Wednesday.
4. MERA zoom board meeting.
5. Second COVID vaccinations for IFD volunteers requesting vaccination.
6. Office and meeting room heaters replaced.
7. MWPA operations committee zoom meeting

PERSONNEL:

Mike Meszaros, Jim Fox, Ken Fox, Tom Fox, Burton Eubank, Brian Cassel, Jeff McBeth, Tim Olson, Dennis Holton, Brett Miller, Roy Pitts, David Briggs, John Roche, David Wright, Kai Heimpel, Tim Olson, Sabrina Meyerson, Nikki Spencer, Michael Duncan, Ian Duncan, Greg Eastman, Celine Bennett.

Jim Fox, Chief



Inverness Public Utility District
Board Meeting February 24, 2021

Agenda Item No. 8

- **December 2020 Expenditures and Credit Card Charges**
- **January 2021 Expenditures and Credit Card Charges**

2:17 PM

01/19/21

Accrual Basis

Inverness PUD
Monthly Expense Ledger Report
December 2020

Date	Num	Name	Memo
Dec 20			
12/01/2020	EFT	AT&T U-verse	Acct 139584573
12/01/2020	EFT	Paychex	S125 Fee
12/02/2020	13957	Barcomm Communications	1 TK3312 radio
12/02/2020	13958	Bauer Associates	Tenney Tank - Supplemental Geotech Consult Ltr
12/02/2020	13959	Brelje & Race Engineers	Professional Services Tenney Tank
12/02/2020	13960	Brelje and Race Laboratories, Inc.	November 2020 sampling
12/02/2020	13961	California Rural Water Association	Membership Dues 01/21 - 01/22
12/02/2020	13962	DeCarli's	Account # 2-45217
12/02/2020	13963	Good & Clean, Inc.	Janitorial Services - November
12/02/2020	13964	Horizon Cable TV Inc.	005-003907
12/02/2020	13965	Jairemarie Pomo	Sept., Oct., Nov. Disaster Council Coordinator
12/02/2020	13966	Jeff McBeth	Reimb Firefighter boots
12/02/2020	13967	Pace Supply Corp.	Customer# 09035-00
12/02/2020	13968	Point Reyes Light Publishing Co., LC	Legal Notice Nov 25 2020
12/02/2020	13969	Streamline	December 2020 Website w/Engage
12/02/2020	13970	U. S. Bank Corporate Payment Systems	Cal Card Payments
12/02/2020	13971	Connie Morse-c	Reimbursement - Disaster Council
12/03/2020	EFT	Bank of America	Nov 2020 Statement Analysis Fees
12/07/2020	EFT	CalPERS Health	December 2020 Health
12/07/2020	13972	California Special Districts Association	ID# 124 RMS Regular Member
12/07/2020	13973	Wolfe Communications	11 Unication G1 Low Band Pagers
12/07/2020	13974	Building Supply Center	Supplies
12/07/2020	13975	Frey's Automotive, Inc.	1976 Ford Smog
12/07/2020	13976	John's Dairy Equipment & Supply, Inc.	Liquid Chlorine
12/07/2020	13977	Petaluma Auto Parts	Acct# 3450 Inverness Public Utility
12/10/2020	Auto	Diversified Technology	Billing Service
12/15/2020	PR 01		Tax Payment
12/15/2020	PR 01		Direct Deposit
12/15/2020	EFT	BB & T- CPS Operations	11/01-11/30/2020 AR Box
12/15/2020	EFT	Paychex	Payroll Processing Fees
12/21/2020	13978	CORE	November 2020 services
12/21/2020	13979	E and M, Inc.	Inverness TOP VIEW
12/21/2020	13980	Empire Automotive, Inc.	Smog Repair 381
12/21/2020	13981	Grainger	Account # 836141895
12/21/2020	13982	Marin County Tax Collector	Customer # 21543
12/21/2020	13983	Verizon Wireless	VOID: Account 942336110-00001
12/21/2020	13984	Pace Supply Corp.	VOID: Customer# 09035-00
12/21/2020	13985	Pace Supply Corp.	Customer# 09035-00
12/21/2020	13986	Harold Nathan-c	Closed Account - Credit Balance Refund
12/23/2020	EFT	Verizon Wireless	Nov., Dec., 2020
12/23/2020	13988	Good & Clean, Inc.	Janitorial Services - December
12/25/2020	EFT	PG&E	Paid online 12/25/2020
12/28/2020	EFT	CalPERS - Retirement	November 2020 Retirement
12/31/2020	PR 2		Tax Payment
12/31/2020	PR 2		Direct Deposit
12/31/2020	13989	Brelje & Race Engineers	Professional Services Tenney Tank
12/31/2020	13990	Harrington Industrial Plastics	042985
12/31/2020	13991	Kroner, Pamela	Gardening Services July - December 2020
12/31/2020	13992	Point Reyes Light Publishing Co., LC	Legal Notice Dec 24 2020
12/31/2020	13993	SWRCB Accounting Office	2020-21 Water System Connection Fees/ System 2110001
12/31/2020	13994	USABluebook	70259
12/31/2020	13995	Kroner, Pamela-reimbursement	IPUD Gradening Suppries - reimbursement
12/31/2020	13996	AT&T CalNet	Telemetry, Phone lines
12/31/2020	13997	Building Supply Center	Supplies
12/31/2020	13998	Quill Corporation	Account # 645751
12/31/2020	13999	U. S. Bank Corporate Payment Systems	Managing Account 4246044555770662
12/31/2020	EFT	Paychex	Payroll Processing Fees

Dec 20

2:17 PM

01/19/21

Accrual Basis

Inverness PUD
Monthly Expense Ledger Report
December 2020

Amount

-69.55
-40.00
-700.00
-1,988.00
-11,752.50
-340.20
-643.00
-845.01
-220.00
-90.79
-600.00
-189.08
-286.86
-111.00
-260.00
-7,194.97
-122.23
-739.03
-10,384.01
-3,004.00
-3,731.57
-579.14
-66.00
-80.10
-488.53
-684.00
-5,962.80
-15,343.44
-10.92
-189.60
-90.00
-345.00
-241.12
-51.15
-680.35
0.00
0.00
-690.90
-70.00
-326.14
-220.00
-2,923.23
-5,437.28
-7,125.46
-17,571.64
-1,817.50
-697.31
-218.75
-120.00
-3,405.60
-66.15
-21.00
-458.24
-304.14
-77.92
-1,901.86
-194.55

-111,771.62

3:37 PM

01/04/21

Inverness PUD
Reconciliation Summary
XX-9383 · Cal Card - Jim Fox, Period Ending 12/24/2020

	<u>Dec 24, 20</u>
Beginning Balance	1,399.26
Cleared Transactions	
Charges and Cash Advances - 8 items	-583.07
Payments and Credits - 1 item	1,399.26
Total Cleared Transactions	<u>816.19</u>
Cleared Balance	<u>583.07</u>
Register Balance as of 12/24/2020	583.07
Ending Balance	583.07

Inverness PUD Reconciliation Detail

XX-9383 · Cal Card - Jim Fox, Period Ending 12/24/2020

Type	Date	Num	Name	Clr	Split	Amount	Balance
Beginning Balance							1,399.26
Cleared Transactions							
Charges and Cash Advances - 8 items							
Credit Card Charge	11/20/2020	5101021	Amazon	X	840-05 · Collection & Treatment Maint.	-58.33	-58.33
Credit Card Charge	11/24/2020	013982	Palace Market	X	850-01 · Volunteer Training	-52.30	-110.63
Credit Card Charge	12/02/2020	0921861	Amazon	X	845-01 · Supplies and Inventory	-36.81	-147.44
Credit Card Charge	12/07/2020	4352258	Amazon	X	845-01 · Supplies and Inventory	-14.72	-162.16
Credit Card Charge	12/10/2020	6392266	Amazon	X	870-05 · Office Supplies, Postage, Fees	-211.01	-373.17
Credit Card Charge	12/10/2020	5133841	Amazon	X	845-01 · Supplies and Inventory	-88.77	-461.94
Credit Card Charge	12/13/2020	ADD0...	Adobe	X	870-05 · Office Supplies, Postage, Fees	-24.99	-486.93
Credit Card Charge	12/15/2020	7771450	Amazon	X	840-05 · Collection & Treatment Maint.	-96.14	-583.07
Total Charges and Cash Advances						-583.07	-583.07
Payments and Credits - 1 item							
Bill	11/20/2020	XX-6591	U. S. Bank Corporat...	X	20000 · Accounts Payable	1,399.26	1,399.26
Total Cleared Transactions						816.19	816.19
Cleared Balance						-816.19	583.07
Register Balance as of 12/24/2020						-816.19	583.07
Ending Balance						-816.19	583.07

12:55 PM

01/04/21

Inverness PUD
Reconciliation Summary
XX-7642 · Cal Card - Redding, Period Ending 12/22/2020

	<u>Dec 22, 20</u>
Beginning Balance	5,795.71
Cleared Transactions	
Charges and Cash Advances - 6 items	-1,318.79
Payments and Credits - 1 item	<u>5,795.71</u>
Total Cleared Transactions	<u>4,476.92</u>
Cleared Balance	<u>1,318.79</u>
Register Balance as of 12/22/2020	1,318.79
Ending Balance	1,318.79

12:56 PM
01/04/21

Inverness PUD
Reconciliation Detail

XX-7642 · Cal Card - Redding, Period Ending 12/22/2020

Type	Date	Num	Name	Clr	Split	Amount	Balance	
							5,795.71	
Credit Card Charge	11/25/2020	E2017392	The Firestore	X	845-02 · Personal Protective Equipment	-399.43	-399.43	
Credit Card Charge	11/25/2020	E2017265	The Firestore	X	845-02 · Personal Protective Equipment	-399.43	-798.86	
Credit Card Charge	11/25/2020	52805	Ebay	X	845-02 · Personal Protective Equipment	-194.84	-993.7	
Credit Card Charge	11/25/2020	11865	Ebay	X	845-02 · Personal Protective Equipment	-169.75	-1,163.45	
Credit Card Charge	11/25/2020	11864	Ebay	X	845-02 · Personal Protective Equipment	-128.82	-1,292.27	
Credit Card Charge	11/30/2020	H9ZR5-66A56	Vistaprint	X	870-10 · Public Relations & Outreach	-26.52	-1,318.79	
Total Charges and Cash Advances							-	-1,318.79
							1,318.79	
Bill	11/12/2020	XX-9139	U. S. Bank Corporat...	X	20000 · Accounts Payable	5,795.71	5,795.71	
Total Cleared Transactions							4,476.92	4,476.92
Cleared Balance							-4,476.92	1,318.79
Register Balance as of 12/22/2020							-4,476.92	1,318.79
Ending Balance							-4,476.92	1,318.79

Inverness PUD
Monthly Expense Ledger Report
January 2021

Date	Num	Name	Memo
Jan 21			
01/01/2021	EFT	AT&T U-verse	Acct 139584573
01/04/2021	EFT	CalPERS Health	January 2021 Health
01/10/2021	Auto	Diversified Technology	Billing Service
01/14/2021	PR 3R	Paychex	Reverse of GJE PR 3 -- For CHK 14001 voided...
01/14/2021	PR 4R	Diversified Technology	Reverse of GJE PR 4 -- For CHK Auto voided ...
01/15/2021	EFT	BB & T- CPS Operations	12/01-12/31/2020 AR Box
01/15/2021	14000	Station House Cafe	Volunteer Appreciation
01/15/2021	EFT	Bank of America	December 2020 Analysis Charge
01/15/2021	PR 1		Tax Payment
01/15/2021	PR 1		Direct Deposit
01/15/2021	EFT	Paychex	Payroll Processing Fees & W-2 Processing
01/15/2021	EFT	Paychex	Payroll Processing Fees
01/21/2021	14001	AT&T CalNet	VOID:
01/21/2021	14002	Cheda's Garage	Chevy 2000 repairs
01/21/2021	14003	E and M, Inc.	Step 7 Basic TIA Portal
01/21/2021	14004	Frey's Automotive, Inc.	79 Ford C800
01/21/2021	14005	Horizon Cable TV Inc.	005-003907
01/21/2021	14006	John's Dairy Equipment & Supply, Inc.	Liquid Chlorine
01/21/2021	14007	Marin County Tax Collector	Customer # 21543
01/21/2021	14008	Pace Supply Corp.	Customer# 09035-00
01/21/2021	14009	Streamline	January 2021 Website w/Engage
01/21/2021	14010	U. S. Postmaster	VOID: PO Box Fee/ 469
01/21/2021	14011	Brelje & Race Engineers	Professional Services Tenney Tank
01/21/2021	14012	CORE	December 2020 services
01/21/2021	14013	DeCarli's	Account # 2-45217
01/21/2021	14014	Emergency Medical Products, Inc.	Account # 104
01/21/2021	14015	Frey's Automotive, Inc.	2000 Chev Pickup K3500
01/21/2021	14016	Grainger	Account # 836141895
01/21/2021	14017	McPhail Fuel Co.	Account INVPUD 143814
01/21/2021	14018	Point Reyes Light Publishing Co., LC	Legal Notice - Tenny Tank Bid
01/21/2021	14019	Recology	Refuse Disposal 01/1/21 - 3/31/21
01/21/2021	14020	U. S. Postmaster	VOID: PO Box Fee/ 469
01/21/2021	14021	Leyva, Jacob - Reimbursement	Reimbursement - Supplies
01/21/2021	14022	AT&T CalNet	Telemetry and Phone
01/25/2021	EFT	CalPERS - Retirement	December 2020 Retirement
01/25/2021	EFT	PG&E	Paid online 12/25/2020
01/29/2021	PR 2		Tax Payment
01/29/2021	PR 2		Direct Deposit
01/29/2021	EFT	Paychex	Payroll Processing Fees
01/31/2021	EFT	AT&T U-verse	139584573 January 2021

Jan 21

4:03 PM

02/17/21

Accrual Basis

Inverness PUD
Monthly Expense Ledger Report
January 2021

Amount

-69.55
-11,815.71
-684.00
189.60
665.00
-3.77
-1,650.00
-121.96
-6,541.42
-16,166.37
-377.10
-40.00
0.00
-504.83
-90.00
-81.75
-90.79
-67.08
-588.20
-6.40
-260.00
0.00
-1,680.00
-150.00
-824.48
-121.75
-51.75
-128.31
-762.00
-475.50
-125.97
0.00
-252.97
-461.05
-5,196.84
-3,156.09
-6,773.74
-16,505.23
-167.10
-69.55

-75,206.66

11:52 AM

02/08/21

Inverness PUD
Reconciliation Summary
XX-9383 · Cal Card - Jim Fox, Period Ending 01/24/2021

	<u>Jan 24, 21</u>
Beginning Balance	583.07
Cleared Transactions	
Charges and Cash Advances - 12 items	-1,114.14
Payments and Credits - 2 items	588.48
	<u> </u>
Total Cleared Transactions	-525.66
	<u> </u>
Cleared Balance	1,108.73
	<u> </u>
Register Balance as of 01/24/2021	1,108.73
Ending Balance	1,108.73

**Inverness PUD
Reconciliation Detail
XX-9383 · Cal Card - Jim Fox, Period Ending 01/24/2021**

Type	Date	Num	Name	Clr	Split	Amount	Balance
Beginning Balance							583.07
Cleared Transactions							
Charges and Cash Advances - 12 items							
Credit Card Charge	12/24/2020	432343	TrucknTow.com	X	845-01 · Supplies and Inventory	-330.14	-330.14
Credit Card Charge	12/31/2020	12839-1	UPS	X	830-01 · Radio/Pager Repair	-23.86	-354.00
Credit Card Charge	12/31/2020	12839-2	UPS	X	830-01 · Radio/Pager Repair	-7.37	-361.37
Credit Card Charge	01/06/2021	3149042	Amazon	X	845-01 · Supplies and Inventory	-43.28	-404.65
Credit Card Charge	01/06/2021	3101001	Inverness Store	X	870-05 · Office Supplies, Postage, Fees	-19.28	-423.93
Credit Card Charge	01/12/2021	2434606	Amazon	X	833-01 · Chemicals	-301.36	-725.29
Credit Card Charge	01/13/2021	8496259	Amazon	X	830-02 · Commo Supplies	-71.43	-796.72
Credit Card Charge	01/13/2021	6872210	Amazon	X	830-02 · Commo Supplies	-38.96	-835.68
Credit Card Charge	01/13/2021	ADD05752206	Adobe	X	870-05 · Office Supplies, Postage, Fees	-24.99	-860.67
Credit Card Charge	01/18/2021	MSL-106386	Smartsign	X	845-01 · Supplies and Inventory	-146.53	-1,007.20
Credit Card Charge	01/19/2021	6349086	United States Plastic...	X	845-01 · Supplies and Inventory	-99.16	-1,106.36
Credit Card Charge	01/21/2021	4533813	Amazon	X	845-01 · Supplies and Inventory	-7.78	-1,114.14
Total Charges and Cash Advances						-1,114.14	-1,114.14
Payments and Credits - 2 items							
Bill	12/13/2020		U. S. Bank Corporat...	X	20000 · Accounts Payable	583.07	583.07
Credit Card Credit	01/20/2021	34829755	TrucknTow.com	X	845-01 · Supplies and Inventory	5.41	588.48
Total Cleared Transactions						-525.66	-525.66
Cleared Balance						525.66	1,108.73
Register Balance as of 01/24/2021						525.66	1,108.73
Ending Balance						525.66	1,108.73

1:23 PM

02/02/21

Inverness PUD
Reconciliation Summary
XX-7642 · Cal Card - Redding, Period Ending 01/22/2021

	<u>Jan 22, 21</u>
Beginning Balance	1,318.79
Cleared Transactions	
Charges and Cash Advances - 1 item	-55.00
Payments and Credits - 1 item	1,318.79
	<u>1,263.79</u>
Total Cleared Transactions	
Cleared Balance	55.00
Register Balance as of 01/22/2021	55.00
Ending Balance	55.00

1:24 PM

02/02/21

Inverness PUD Reconciliation Detail

XX-7642 · Cal Card - Redding, Period Ending 01/22/2021

Type	Date	Num	Name	Clr	Split	Amount	Balance
Beginning Balance							1,318.79
Cleared Transactions							
Charges and Cash Advances - 1 item							
Credit Card Charge	01/21/2021	01212021	U. S. Postmaster	X	870-05 · Office Supplies, Postage, Fees	-55.00	-55.00
Total Charges and Cash Advances						-55.00	-55.00
Payments and Credits - 1 item							
Bill	11/30/2020	****9139	U. S. Bank Corporat...	X	20000 · Accounts Payable	1,318.79	1,318.79
Total Cleared Transactions						1,263.79	1,263.79
Cleared Balance						-1,263.79	55.00
Register Balance as of 01/22/2021						-1,263.79	55.00
Ending Balance						-1,263.79	55.00



Inverness Public Utility District
Board Meeting February 24, 2021

Agenda Item No. 9

**Election of Officers and Appointments
to Board Committees**



Inverness Public Utility District
Board Meeting February 24, 2021

Agenda Item No. 10

Committee Reports

Personnel Committee

- **Recruitment Update - Fire Chief Position**
- **Recruitment Plan – Water superintendent**



Service Agreement

This Agreement is made and entered into by and between Gary D. Nelson Associates, Inc. (“Nelson”) located at 19080 Lomita Avenue, Sonoma, CA 95476 and Inverness Public Utilities District (“Client”), located at 50 Inverness Way Inverness, CA 94937, and is subject to the Terms and Conditions below.

The fees and pricing stated herein apply to Nelson Staffing a division of Nelson, and apply only to Nelson’s Administrative, Clerical, Human Resources and Customer Service placement services.

The pricing and terms may NOT apply to any other divisions of Gary D. Nelson Associates, Inc. or the placement of Light Industrial, Legal, Technology & Engineering or Accounting & Finance positions.

Nelson will provide services under this Agreement to Client effective 12/15/2020 and shall remain in effect through February 1, 2022. Unless terminated by either party upon thirty (30) days written notice, this agreement shall be automatically renewed for succeeding terms of one year each. Nelson and Client shall be referred to collectively as the “Parties,” or individually as a “Party.”

Compliance with the Law. The Parties agree to comply with all applicable federal, state, and local laws relating to employment matters including, but not limited to, Title VII of the Civil Rights Act of 1964, as amended, the Americans with Disabilities Act of 1990, the Age Discrimination in Employment Act of 1967, and the Civil Rights Acts of 1966, 1970, and 1971.

Nature of Relationship. The services that Nelson will render to Client under this Agreement will be as a vendor. Nothing contained in this Agreement will be construed to create the relationship of principal and agent, or employer and employee, between Nelson and Client.

- **Hourly Bill Rate for Temporary and Payroll Services:** To be determined on a case by case basis, based on client job description and selected candidate. In California, any hours worked in excess of 8 hour per day or 40 hours per week will be billed at time and one-half (1 ½) the hourly bill rate. All Nelson temporary employees will be paid overtime as required by state and federal wage and hour laws
- Nelson shall incur costs relating to Patient Protection and Affordable Care Act compliance and shall charge Client a fee of \$0.20 per hour for all hours worked. This fee will be set forth in each Nelson invoice.
- Nelson will bill back to Client the cost of sick leave taken by employees (California’s Paid Sick Leave Law) at the regular hourly rate.
- **Temporary-to-Hire Fee Terms:** The fee to hire our temporaries on full-time is as follows. The fee will be 25% of the candidate’s expected base salary plus an estimate of annual bonuses or commissions, as applicable, during his/her first year of employment with your firm. Part-time roles have a minimum fee of \$5,500. Credit for hours worked is based on the schedule below. Note there is no guarantee for a temporary-to-hire placement and there is no credit applied to senior consulting engagements with bill rates at \$90/hour or above. Hours are calculated per person and discounts cannot be combined with hours worked by other employees in the same or other positions.

Hours	Credit
0-240	25% of annual salary
241-480	20% of annual salary
481-720	15% of annual salary
721-960	10% of annual salary
961+	5% of annual salary

- **Temporary Services Guarantee:** Nelson offers an 8-hour guarantee for all temporary and consulting positions. If for any reason the candidate does not meet your expectations and you are not completely satisfied, you have no obligation to pay for the first 8 hours of service.
- **Screening:** If pre-employment drug and/or criminal background screenings are requested by Client, Nelson will bill back to Client all associated costs. Nelson shall not inform Client of the results of the background checks and pre-employment drug testing but will only assign temporary employees to Client who have satisfactorily passed the background check and drug test screening. Nelson adheres to all Federal, State, and Local regulations. As the employer of record, Nelson shall remain responsible for eligibility determination.



Service Agreement

- **Direct Hire Fee:** It has been agreed between the parties that there will be a fee equal to 25% of the candidate's first year's salary plus an estimate of annual bonuses or commissions, as applicable, during the candidate's first year of employment. For part-time roles, there is a minimum fee of \$5,500.
- **Direct Hire Guarantee:** Each placement is guaranteed for Ninety (90) calendar days, effective the day the candidate begins. If the employer terminates for cause or the employee voluntarily resigns during the first Ninety (90) calendar days, the fee will be prorated at 1/90th of the original fee for each consecutive calendar day employed, and the portion of the fee that exceeds that amount will be promptly refunded. This guarantee is only valid if the invoice is paid within ten (10) days of candidate start date and void in the case of company downsizing, reorganization, sale, merger, relocation or other significant changes in the conditions of the role or agreed upon compensation provided to the candidate.
- **Payroll Services:** Nelson's payroll services are available upon Client's request. These individuals may be former Client employees, or other individuals Client has identified for temporary work at Client's Company. Client agrees to comply with all employment laws governing its relationship with payrolled workers and agrees to indemnify and hold Nelson harmless from claims arising from Client's employment relationship with such workers. Hourly bill rate to be determined on a case by case basis.
- **Payment Terms:** Payment is due ten (10) days from the date of invoice. Direct Hire placement invoices are submitted on the start date of the candidate. Temporary and consulting services invoices are processed weekly and are generated from the employee's timecard. If it becomes necessary to file suit for collection purposes, attorney's fees shall be paid to the prevailing party. Any amounts not paid within thirty (30) days of the due date shall be subject to a finance charge of 1.5% per month (18% per annum).
- Nelson reserves the right to request from Client an increased mark-up or to pass through costs in the event of increase in employee statutory taxes and related costs, including, but not limited to, Social Security Tax, Medicare Tax, Unemployment and Workers' Compensation, Patient Protection and Affordable Care Act and/or other similar employer costs (examples include California's Paid Sick Leave Law and San Francisco Health Care Security Ordinance).
- **Indemnification:** Each party agrees to indemnify, defend and hold the other, and its officers, directors, employees and agents harmless from any claim which arises out of the indemnifying party's failure to comply with the terms of this Agreement; violation of applicable federal, state or local law; or negligence. Promptly upon becoming aware of a claim subject to indemnification under this Agreement, the indemnified party must give notice of the claim to the indemnifying party, accompanied by a copy of any written documentation regarding the claim received by the indemnified party. The indemnifying party will, at its option, settle or defend, at its own expense and with its own counsel, the claim. The indemnified party will have the right, at its option, to participate in the settlement or defense of the claim, with its own counsel and at its own expense; however, the indemnifying party will have the right to control the settlement or defense of the claim. The indemnifying party will not enter into any settlement that imposes any liability or obligation on the indemnified party without the indemnified party's prior written consent. The parties will cooperate in the settlement or defense and give each other full access to all relevant information.

Client Responsibilities:

- **Confidentiality:** The candidates whom Nelson presents to Client are obtained as a result of Nelson's work and reputation and these candidates may want their job search to be kept confidential. Client and its agents agree to keep confidential the identities and related information concerning Nelson candidates. The information is to be used solely for the purpose of Client considering these candidates for employment by Client and with Client agreeing to not contact either candidate or any related references without Nelson's prior permission.
- **Cash and Valuables:** Client shall not entrust Nelson employees with unattended premises, or give access to Nelson employees any cash, cash negotiables, or other valuables, without Nelson's prior written consent. Client agrees to waive any claim against Nelson and to hold Nelson harmless and to indemnify Nelson from any costs, claims or losses which occur in whole or in part from Client's failure to comply with this provision.
- **Training and Supervision:** Client agrees that Nelson employees will be adequately protected, trained and supervised and provided with the equipment and supervisory protection necessary to the preservation of their right of privacy, their ability to perform their assignment, and their safety, as required by law. Client shall comply with its legal obligations to protecting Nelson employees from harassment, or any improper interference with their ability to perform their work.



Service Agreement

- **Notification of Changes to Personnel’s Job Duties:** Client agrees, upon any change in job duties from those for which Personnel was initially placed, to obtain written agreement from Nelson. This is necessary to ensure that Nelson is properly informed in order to assess the risk of the duties and responsibilities of Nelson Personnel. If Client makes a change without Nelson’s written consent, then Client agrees to reimburse Nelson for any additional cost incurred, including, without limitation, the increased cost of insurance premiums for Worker’s Compensation coverage.
- If Nelson’s candidate is referred to Client and is not hired, and Client refers the candidate to another division of Client Company, or a different company resulting in the candidate hiring, Client is liable for the fee.
- If, within 365 days after Nelson presents a candidate, Client, or one of its divisions or affiliates employs, engages or otherwise retains the services of that candidate (regardless of the position or nature of engagement), or refers him/her to another company, Client agrees to contact Nelson in writing within thirty (30) days and pay Nelson its full direct hire placement fee described above.
- Should Client decide to hire or contract with any Nelson temporary employee that was placed at Client’s company through Nelson, or interviewed as a result of Nelson and do so without Nelson’s written consent, Client agrees, even if the person was referred to a position by another agency, to pay Nelson the Direct Hire Fee described above effective as of the date of the hiring contract. This obligation continues for 365 days from the day we presented the candidate or the last day the employee was on Nelson payroll.
- Client warrants that the signature on the timecard certifies that the hours worked are correct and acceptable to Client for billing purposes, and that the work was performed in a satisfactory manner.
- Non-exempt employees furnished by Nelson to Client shall submit timecards to Client each week recording the number of hours worked in the preceding calendar week. Client shall review and approve those timecards, which accurately state the number of hours worked. The timecards approved by Client shall be the basis of the amounts billed to Client by Nelson for the services of its employee. Client approved timecards must be submitted to Nelson by the following deadlines: (i) Paper Timecards must be submitted by 10:00 am on Monday; (ii) electronically through NelsonTime must be submitted by 2:00 pm Monday.

The individual signing this Agreement on behalf of Client represents and warrants that he/she has the authority to enter into this Agreement on behalf of Client and to bind Client to the terms hereof.

Inverness Public Utilities District

Gary D. Nelson Associates, Inc.

Signature: _____

Signature: _____

Print Name: _____

Print Name: Joseph T. Prusko

Title: _____

Title: Chief Financial Officer

Date: _____

Date: _____

INVERNESS PUBLIC UTILITY DISTRICT WATER SUPERINTENDENT RECRUITMENT

February 17, 2021

1. High-Level Timeline/Schedule

i *The process is estimated to take up to 3 months to perform a salary survey, update the job description and recruitment packet, strategize the recruitment, and hire the replacement. It is desired to have the new Water Superintendent hired to train with Chief Fox Starting in May.*

Overview

2. Department Needs

i *The Department desires the recruit to reside within a reasonable distance of the West Marin region. The Department needs a Water Treatment and Distribution professional that has the required Certificates issued by the State Water Resources Control Board, experience with water system engineering, SCADA applications, training, budgeting, asset inventory management, community engagement and inter-agency representation.*

3. Job Description

i *The job description will be developed utilizing previous versions of the job description, reviewing other similar agency job descriptions, salaries and benefits. The Personnel Committee will be asked for input on position priorities, salary, benefits and housing.*

4. Develop Training Plan

i *Identify training priorities and timeline and create a calendar for applicant.*

5. Recruitment Plan

i *Contact the local water system community and resources; send job description with personalized letter. Utilize advertising locally and in specific trade publications online (AWWA, CSDA).*

6. Review Candidates

- i** 1. *High Level Applicant Review: Schedule a time for review, remove unqualified applicants*
- 2. *Rating and Ranking Process with Personnel Committee.*

7. Schedule Interviews

- i** *Create an interview schedule with applicants and interviewers.*

8. Conduct Phone Screening

- i** *Contact listed references for top applicants*

9. Job Offer

- i** *Create a job offer letter and, upon acceptance, present a hire packet.*

APPROVAL AND AUTHORITY TO PROCEED

We approve the project as described above, and authorize the team to proceed.

Name	Title	Date



Inverness Public Utility District

Board Agenda Item Staff Report

Subject: Water Superintendent Recruitment Plan
Meeting Date: February 24, 2021
Date Prepared: February 19, 2021
Prepared by: Shelley Redding
Attachments: Water Superintendent Recruitment Plan DRAFT

Recommended Action: Informational for discussion purposes

The recruitment for the position of Water Superintendent is being initiated with the attached draft of the Recruitment Plan. The first part of the plan is the Job Description update.

The position of the Water Superintendent is significant with the increased impact of climate change and the affect it has on our water supply. Additionally, the position requires that the District be represented by an individual who can engage collaboratively with the Administrator, District Fire Chief, local community members, County agency representatives, regional water system operators and State regulatory personnel. Additionally, the position requires Administrative tasks necessary for State Reporting requirements, record keeping and communications.

The recruitment plan requires some analysis of comparable salary considerations. The draft of the job description is currently being amended with assistance from the Chief of Operations and then the Personnel Committee.



Inverness Public Utility District
Board Meeting February 24, 2021

Agenda Item No. 2

Public Expression

Opportunity for members of the public to address the Board on matters under the Board’s jurisdiction but not on the posted agenda.

Directors or staff “*may briefly respond to statements made or questions posed*” during Public Expression, but “*no action or discussion shall be undertaken on any item not appearing on the posted agenda*” (Gov. Code §54954.2(a)(3)).

Members of the public may comment on any item listed on the posted agenda at the time the item is considered by the Board.



Inverness Public Utility District
Board Meeting February 24, 2021

Agenda Item No. 12

Announcements,

Next Meeting,

Adjournment