Calaveras County Water District
Copper Cove, California
Bidding Documents
Copper Cove Phase 1 and 2 Tanks Project

ADDENDUM NO. 3
Issued August 7, 2023

The Drawings and Project Manual including Specifications are modified as follows. Addendum No.3 forms a part of the Contract Documents and modifies the original documents dated June 14, 2023.

This Addendum consists of ten (10) pages and one (1) attachment:

- Attachment A: Revised drawings

Bidder's Note: Bidder shall acknowledge receipt and examination of this addendum on the Bid form and attach a signed copy to the Bid, both as required by the Sealed Proposal.

Contract Documents - Drawings Changes:

Modify the following drawings per the instruction outlined below:

1) Replace C7, C8, C9A, C14, and C16 with the attached revised sheets in attachment A.

Contract Documents – Specifications Change:

1) Revise Section 01 10 00: Summary, as follows:

B. Clearwell Site
   1. Prepare subgrade for new Clearwell foundation and construct foundation with a minimum 28-day compressive strength of 7,000 pounds per square inch.
   2. Construct new 346,000-gallon welded steel storage tank Clearwell.
   3. Construct all below ground site piping and terminate short of tanks and tie-in locations.
      a. Perform pressure testing, disinfection, sampling and verification of bacteriological test results.
      b. Connect inlet and outlet piping to new Clearwell.
      c. **Complete installation of inline insertion valve #11 and** shut down 24-inch outlet TW/BWS pipe to complete tie-in of new outlet TW/BWS piping per Contract Documents.

2) Add line 1 to paragraph 1.05 B in section 09 97 13.24: Steel Water Tank Painting, as follows:

1.05 SUBMITTALS

B. Containment: Contractor shall submit to the District a written plan describing the type and performance of the proposed containment method to ensure spent abrasive and overspray does not leave the site. Performance data shall include time required to raise and lower containment and containment efficiency. This submittal shall be for informational purposes only. Review of this submittal shall not constitute approval of the proposed method nor place any responsibility for the same upon the District. An engineer licensed in the State of California must seal the containment plan.
   1. **No airborne particulates may leave the job site nor cross over the site property line onto adjacent public or private property. If airborne particulates are observed to be leaving the project site and/or complaints are made by nearby property owners, the abrasive blasting and/or spraying operations must be immediately suspended until proper controls are implemented by the contractor/subcontractor.**

3) Revise Section 32 31 13: Chain Link Fences and Gates, as follows:

2.01 COMPONENTS

A. Line Posts: Minimum 2 inch inner diameter.
B. ~~**Victory Arms**~~ **Angled Outriggers**: Minimum 2 inch inner diameter formed with a 45 degree angle in the direction of the climber.
   1. **To accommodate 3 strands of barbed wire.**
C. Corner and Terminal Posts: Minimum 2.5 inch inner diameter.
D. ~~**Victory Arms**~~ **Angled Outriggers** and Terminal Posts: Minimum 2.5 inch inner diameter formed with a 45 degree angle in the direction of the climber.
   1. **To accommodate 3 strands of barbed wire.**
E. Gate Posts: Minimum 6 inch inner diameter for gate widths of 6 feet to 12 feet.
F. Top and Brace Rail: Minimum 1.25 inch diameter, plain end, sleeve coupled.
G. Bottom Rail: Minimum 1.25 inch diameter, plain end, sleeve coupled.
H. Fabric: 2 inch diamond mesh interwoven wire, 9 gauge, 0.1483 inch thick, top selvage knuckle end closed, bottom selvage twisted tight.
I. Tension Wire: 6 gauge, 0.1920 inch thick steel, single strand.
J. Tie Wire: Aluminum alloy steel wire.

4) Revise Section 33 14 19: Valves and Hydrants, as follows:

2.03 GATE VALVES: 3 TO 12 IN DIAMETER

K. ~~**Double Disc Gate Valve**~~ **Resilient Wedge Gate Valve**:

1. Comply with AWWA C509 or AWWA C515.
2. Ductile iron, NRS, open left, NSF 61 and NSF 372 compliant, 2-inch square operating nut (unless otherwise noted).
3. Fusion epoxy coated and lined
4. Design Requirements:
   a. 200 psi working pressure.

5) Add Sections 2.07 and 3.02 C Inline Insertion Valve to 33 14 19: Valves and Hydrants, as follows:

2.07 INLINE INSERTION VALVES

A. Model: AVT EZ Valve, or equal.

1. **Rated for 250 psi.**
2. **NSF 61 compliant.**
3. **Epoxy coated ductile iron body, bonnet, and resilient wedge valve cartridge**
4. **The valve shall be engineered to achieve a positive seal on the interior of a clean or tuberculated host pipe.**
5. **Insertion valves shall have a full-size, full-port flow way unobstructed and free of depressions to provide optimum flow and sealing and not trap tuberculation or debris.**
6. **Insertion valves shall be NRS (non-rising stem).**
7. **Contractor will submit shop drawings and vendor product information for approval by the engineer.**

3.02 Installation

C. INLINE INSERTION VALVES

1. **All insertion valves must be installed by companies trained and authorized by the approved valve manufacturer. This will ensure high-quality installation and guarantee the warranty of the product.**

2) Revise Section 33 14 19.03: Butterfly Valves, as follows:

1.03 ACCEPTABLE MANUFACTURERS

A. Subject to Compliance with the Contract Documents, the Following Manufacturers are Acceptable to match District standards:
   1. Mueller LinesealXPH, Pratt HP 250II, NIBCO T-FP600A-LF, **Val-Matic** or approved equal.

2.01 BUTTERFLY VALVES

A. General:
   1. AWWA C504, Class ~~**150B**~~ **250B**:
      a. One piece shaft construction.
      b. One piece body construction.
   2. Minimum operator torque rating:
      a. AWWA C504, Class ~~**150B**~~ **250B**.
   3. Resilient-seat, tight-closing, set in valve body.
   4. Flanged body construction where indicated specifically in Contract Drawings.
   5. Discs seat at 90 Degrees with pipe axis.
   6. Buried or submerged service: 0-ring shaft seals or chevron seal.
   7. Valve position indicators:
      a. Provide on each exposed operator.
      b. Provide on each extension stem operating nut, Mills Engineering "Indico Model 128," Pratt "Diviner," or equal.
   8. Operator locking devices:
      a. Throttling service: Infinitely variable locking device or a totally enclosed geared operator.
      b. Other lever operators: Readily locked in the open, closed, and not less than five intermediate positions.
   9. Disc:
      a. ~~**Cast iron**~~ **Ductile iron**, ASTM ~~**A126**~~ **A536** Class B, with stainless steel type 316 edge.
      b. Discs shall be retained by stainless steel pins extending through full diameter of shaft.
   10. Shaft: Stainless steel, type 304.
   11. Seat: EPDM.

2.02 VALVE BODIES

A. Flanged, where called for in Contract Documents: ASTM ~~**A126**~~ **A536** Class B, with 18-8 Type 304 Stainless.

3) Revise Section 33 16 00: Water Utility Storage Tanks, as follows:

C. Stairs, Ladders, Platforms, and Railings: Comply with 29 CFR 1910, Subpart D, Sections 21-30.
   1. Inside tank and other submerged locations use welded steel.~~ **in accordance with**~~
   2. Outside tank, use hot-dipped galvanized steel, zinc coated in accordance with ASTM A123/A123M.
   3. Provide handrails at open sides of all platforms and:
   4. Provide ladders in the following locations:
      a. Inside tank, from bottom to top.
   5. Provide stairs in the following locations:

a. Outside of tank, up to roof.

6. **Landing grates shall be serrated.**

Responses to Bidder Questions:

Question #1: Can section 14 of AWWA D100 be used for design of new and rehab tanks?

Response #1: No, section 14 cannot be used. The District prefers the standard D100 design.

Question #2: Sheet C8 shows a line from the new 12" TW line that ties in to the existing 10" BPS effluent line outside of the B Tank booster pump station building that includes an altitude valve vault with a 36" removable spool piece. Is this line intended to be 10" or 12"? Is the altitude valve being relocated from another location or provided by the utility? Could you provide a detail for the vault and piping? Could you provide a detail for the tie-in to the existing 10" BPS effluent?

Response #2: The altitude valve will be procured as part of a future project. This line is intended to be a 12" line, see revised sheets C8 and C14 included in Attachment A.

Question #3: Per Spec 331600 paragraph 2.03 / C, do the Landing Gratings need to be Serrated?

Response #3: Yes, the landing gratings need to be serrated. Refer to revised specification Section 33 16 00 herein.

Question #4: Per Spec 331600 para 2.03 / C, what is the Material required of the Tank Internal Ladders?

Response #4: Tank internal ladders shall use welded steel material, per specification Section 33 16 00 article 2.03: Tank Fittings.

Question #5: Could you send us the PHL / Bidder List / Prebid Sign-in sheet for our bidding?

Response #5: The Prebid Sign-in sheet can be found in Attachment B in Addendum 1.

Question #6: Specification section 33 14 19 2.03 Gate Valves: 3 to 12 in Diameter asks for "Double Disc Gate Valves", but references AWWA C509 and AWWA C515. Those AWWA references are for Resilient Wedge (RW) Gate Valves. The

manufacturer part numbers listed in the project specification and in the CCWD Approved Materials List are also for RW gate valves. Is the call out for "Double Disc Gate Valves" in error?

Response #6: Yes, the call out for "Double Disc Gate Valves" is in error. Refer to revised specification Section 33 14 19 herein.

Question #7: Specification section 26 05 00, 1.01.N requires the system integrator to provide any necessary PLC hardware. Section 2.06 details requirements for all new I/O and panel modifications for this project. What are the make/model of the existing PLCs at the Tank B site and the Copper Cove WTP site? Is there available spare I/O for the new signals, or is the expectation that the contractor provide new I/O cards for the new signals? Please provide as built drawings of the PLC panels or an I/O list so the system integrator can define what (if any) new PLC hardware will be required.

Response #7: There are existing Modicon Compact and Momentum PLCs. No additional PLC IO cards need to be provided. Spare IO is available, interposing relays and isolators may be necessary at each site. No as-built drawings are available.

Question #8: Per section 0700 in the General Conditions it states that "Contractor shall pay all government charges and inspection fees necessary for the prosecution of the work". Does the district know what the costs of these fees will be?

Response #8: The contractor is not required to pay any arbitrary government charges and inspection fees unless the contractor's or subcontractor's scope specifically calls out for those inspections and clearly identifies the inspection requirements. Note that it is anticipated that the county may require a grading permit for the disposal of excavated materials and there may be an associated fee.

Question #9: Sheet C7 Clearwell Tank Site – At the 20" Transmission Main Tie-In, it calls for an 18" Wye to be installed with 2 valves. Please confirm the connection will be a transition from the 20" new Main to the exiting main using an 18" wye instead of a 20" Wye and what size the valves should be if we do connect to an existing 18" Line.

Response #9: Per addendum 2 Attachment A, the wye shall be 18" with a reduction downstream from the wye to the new 20" transmission main.

Question #10: I'd like to submit Val-Matic butterfly valves as "or equal" to the butterfly valves listed in specification section 33 14 19.03. Please see the attached information from B&K Valves, our Val-Matic manufacturers representative. I've also attached the page from the CCWD Approved Materials List showing Val-Matic as an accepted butterfly valve manufacturer.

Response #10: No exceptions taken. Refer to revised specification Section 33 14 19.03 herein.

<u>Question #11:</u> I have a question on this project from my integrator - Who is providing the clearwell vent control panels?

Response #11: The vent supplier should supply their standard control panel.

<u>Question #12:</u> It is unclear if PLC I/O cards are required to add the new I/O. It does not list what PLC it is or if there are multiple PLCs. Please Advise.

Response #12: There are existing Modicon Compact and Momentum PLCs. No additional PLC IO cards need to be provided. Spare IO is available, interposing relays and isolators may be necessary at each site. No as-built drawings are available.

<u>Question #13:</u> Is this project subject to the Buy America or Buy American material requirements for steel products?

Response #13: No, this project is not subjected to the Buy America or Buy American requirements.

<u>Question #14:</u> In the General Conditions under 6.03 – "F", it calls out for "Contractor Pollution Liability Insurance". In the Supplement Conditions where the limited amounts are given, there is no mention of the Contractor Pollution Liability Insurance. Is the Contractor Pollution Liability Insurance required? If so, what is the amount of coverage required?

Response #14: No, a separate pollution liability insurance policy is not required for this project. Refer to revised specification 09 97 13.24: Steel Water Tank Painting herein.

<u>Question #15:</u> If Contractor Pollution is required, this coverage is not typically carried by most subcontractors and is expensive to purchase. Will the subcontractor performing the fence and gate scope of the work be required to furnish the Contractor Pollution Liability Insurance policy?

Response #15: Not applicable.

<u>Question #16:</u> On plan sheet C15 detail "A" is called out as "Gate Operator Section", There are no other gate operator reference in the specifications or details. Is there a requirement for a gate operator? If required, please supply specifications for the gate operator.

Response #16: A gate operator is required per detail 5 on sheet C15.

Question #17: In the specification under Accessories – "C" calls out for Victory Arms, in the fence industry, this term is associated with a barb wire arm holding 6 strands of barb wire. In the details and other areas in the specs, it calls out 3 strands of barb wire. Please confirm that the required barb wire arm is a 45 degree barb wire arm for 3 strands of barb wire as shown on detail sheet C15.

Response #17: The required barb wire arm is a 45-degree arm with three (3) strands of barb wire as shown on detail sheet C15. Refer to revised specification Section 32 31 13 herein.

Question #18: Bid Item number 11 for "B" Tank on the Bid Schedule calls out 40 LF of chain link and gate. When scaled, it scales as 85 feet of fence and a 20' gate. Please clarify the amount of fence and gate for Bid Item #11.

Response #18: The estimated amount of fence is 20 feet to replace where the old gate was (to be demolished), and a new 20-foot gate, for a total of 40 feet.

Question #19: Bid Item 11 - B tank site chain link fence estimated quantity is 40 LF, however, actual at 95 LF of fence plus a 20' double gate for a total of 115 LF? Please confirm.

Response #19: The estimated amount of fence is 20 feet to replace where the old gate was (to be demolished), and a new 20-foot gate, for a total of 40 feet.

Question #20: Under section 33 16 00 Water Utility Storage Tanks, 2.02 Steel Tanks, paragraph A. Is the interior roof area to be seal welded, including roof plate to rafters and overlapping seams, or the roof plate?

Response #20: Per addendum 2, seal welding of the interior of roof plate junctions and rafter flanges are required.

Question #21: Will shop drawings/submittals for the fencing and gate require calculations or an Engineers stamp?

Response #21: No, the shop drawings/submittals for the fencing and gate do not require an Engineers stamp.

Question #22: Pursuant Drawing C7, 24" TW Outlet Line is called out (two locations) at invert elevation of 772.6'. Drawing C9A calls it out at 775.2' and C11A appears to be at approximately 774'. Please confirm elevation of this line.

Response #22: The 24" TW outlet line shall be at an invert elevation of 775.0 at the new clearwell. Refer to revised sheets C7 and C9A.

<u>Question #23:</u> Pursuant Drawing C7 and Detail 2/C13, can the existing tank be taken out of service to perform the tie-in?

Response #23: Inline insertion valves have been added to C7 to accommodate the outlet tie-in as well as the tie-in to the 18" wye. Refer to revised sheet C7 and added specification sections 33 14 19: Valves and Hydrants herein.

<u>Question #24:</u> There is mention of chlorine analyzers on drawing(s) C7 and C8 but not specs. Please advise.

Response #24: Per note 4 on C7 and note 4 on C8, new chlorine analyzer to be ECD DC-80 or approved equal, reagent-less analyzer.

<u>Question #25:</u> Specification Section 01 74 19, Paragraph 1.05 Asbestos Demolition Procedures, where is this pipe located, size and lengths? This information is required to accurately price the disposal.

Response #25: Approximately five (5) feet of 10" diameter AC treated water pipe is being removed. Refer to revised Detail 5 on sheet C14 herein.

<u>Question #26:</u> In addendum #2 issued yesterday, the type of PVC pipe for the "OF" line at the B Tank Site was addressed. However, SDR26 PVC pipe isn't available in 16" diameter. If this line is to be 16", the engineer will need to specify a different type of PVC pipe. The other option would be to change the size of this line to a diameter that is available in SDR26, either 15" or 18".

Response #26: The OF line shall be 18" SDR 26. However, the existing 16" OF material is unknown, and the tie-in connection will need to account for any material or size transition.

By: _____
Charles Palmer
Senior Engineer, Calaveras County Water District

ACKNOWLEDGMENT BY BIDDER,

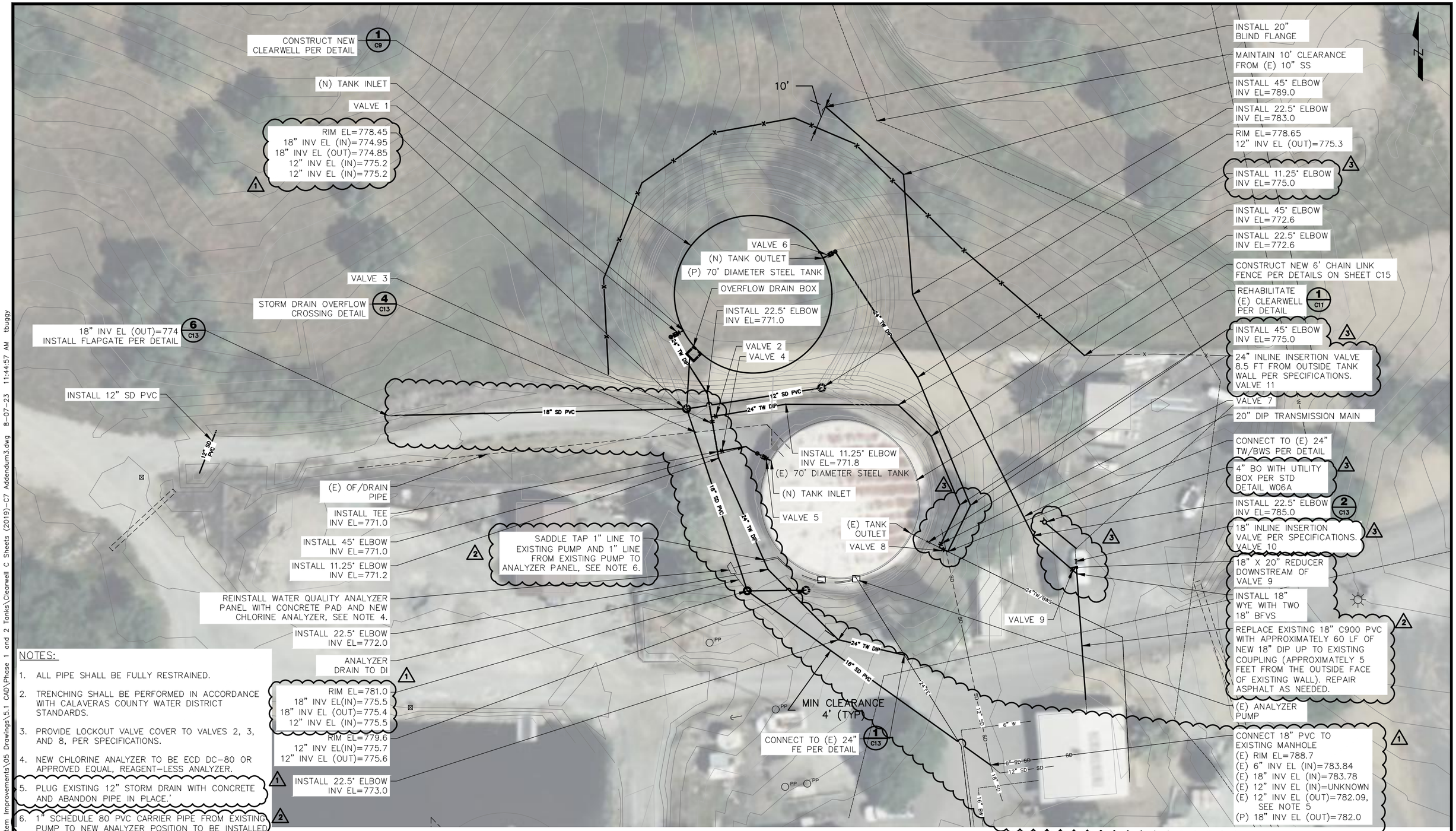
By: _____

Title: _____

(NOTE – Bidders are hereby advised that they also need to sign their acknowledgement of this Addendum on their Bid Schedule.)

-END OF ADDENDUM NO. 3

ATTACHMENT A



NOTES:

1. ALL PIPE SHALL BE FULLY RESTRAINED.
2. TRENCHING SHALL BE PERFORMED IN ACCORDANCE WITH CALAVERAS COUNTY WATER DISTRICT STANDARDS.
3. PROVIDE LOCKOUT VALVE COVER TO VALVES 2, 3, AND 8, PER SPECIFICATIONS.
4. NEW CHLORINE ANALYZER TO BE ECD DC-80 OR APPROVED EQUAL, REAGENT-LESS ANALYZER.
5. PLUG EXISTING 12" STORM DRAIN WITH CONCRETE AND ABANDON PIPE IN PLACE.'
6. 1" SCHEDULE 80 PVC CARRIER PIPE FROM EXISTING PUMP TO NEW ANALYZER POSITION TO BE INSTALLED WITH SMOOTH RADIUS BENDS TO ACCOMMODATE ½" TUBING.

ISSUED FOR BID

REV	DATE	BY	DESCRIPTION
3	8/4/23	TMB	ADDENDUM #3
2	7/31/23	TMB	ADDENDUM #2
1	7/6/23	TMB	ADDENDUM #1

SCALE: 1" = 20'

DATE: JUNE 2023

WARNING 0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

DESIGNED AAS
DRAWN NMVL/TMB
CHECKED KBB

CALAVERAS COUNTY WATER DISTRICT
120 TOMA COURT,
SAN ANDREAS, CALIFORNIA 95249
PHONE (209) 754-3543

PETERSON . BRUSTAD . INC
ENGINEERING . CONSULTING
80 Blue Ravine Rd. Suite 280
Folsom, CA 95630
PH. 916-608-2212

REGISTERED PROFESSIONAL ENGINEER — CARL B. BRUSTAD — NO. 57869 Exp. 6/30/24 — CIVIL — STATE OF CALIFORNIA — 6/14/23

COPPER COVE WATER SYSTEM IMPROVEMENTS PROJECT - PHASE 1 AND PHASE 2 TANKS

CLEARWELL TANK SITE PIPING PLAN

DRAWING C7

SHEET 11 OF 42

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POWER POLE

POWER POLE

BUILDING

BUILDING

SIGNAL HILL TRAIL

INSTALL 4' X 5' X 5' PRECAST VAULT WITH TRAFFIC RATED TORSION ASSIST LID AND 36" LONG REMOVABLE SPOOL PIECE

EX ANALYZER PANEL WITH NEW CHLORINE ANALYZER. SEE NOTE 4.

INSTALL 45° ELBOW INV EL=977.7

INSTALL 45° ELBOW INV EL=977.7

VALVE 23

VALVE 24

18" SDR26 TANK OVERFLOW AND DRAIN

INSTALL 45° ELBOW INV EL=978.0

1" ANALYZER DRAIN TO OVERFLOW DRAIN BOX

INSTALL 45° ELBOW INV EL=978.1

INSTALL 22.5° ELBOW EL TO BE FIELD VERIFIED

TIE (E) 2" VAULT DRAIN TO (P) 6" PVC TANK/VAULT DRAIN

ANALYZER DRAIN TO DI

10" TW

INSTALL 45° ELBOW INV EL=978.0

VALVE 18

OVERFLOW DRAIN BOX

TIE INTO (E) 6" PVC TANK DRAIN (4/C14)

INSTALL 45° ELBOW INV EL=976.6

TIE INTO (E) 10" DIP TW (6/C14)

VALVE 22

TIE INTO (E) UTILITY

REHABILITATE (E) STEEL TANK PER DETAIL (1/C9)

(P) 65' DIAMETER STEEL B TANK

TIE INTO (E) 10" TW TO GO UNDER EXISTING (5/C14)

VALVE 15

VALVE 14

VALVE 16

CONSTRUCT NEW STEEL TANK PER DETAIL (1/C10)

VALVE 2

(E) 65' DIAMETER STEEL B TANK

VALVE 12 (NCV)

VALVE 11 (NCV)

VALVE 10

VALVE 9

VALVE 13

(N) TANK OUTLET IN PARALLEL

(N) TANK INLET IN SERIES

(N) TANK INLET

VALVE 7

VALVE 6

VALVE 5

VALVE 4

VALVE 3

(N) TANK OUTLET

VALVE 8

RELOCATE (E) UTILITY

VALVE 1

(N) TANK INLET

VALVE 17

12" TW

INSTALL 90° ELBOW INV EL=977.1

VALVE 19

SADDLE TAP 1" LINE TO ANALYZER PANEL

VALVE 20

(P) FENCE, PER C15

10" TW

TIE INTO (E) 16" TANK OVERFLOW (3/C14)

2" ARV WITH MINIMUM 1/8" ORIFICE PER STD DETAIL W05

4" BO WITH UTILITY BOX PER STD DETAIL W06A

WALL

WALL

PROPANE TANK

HOUSE

TIE INTO (E) UTILITY

VALVE 25

TIE INTO (E) 18" TW (1/C14)

18" TW FROM WTP

TIE INTO (E) 18" TW (2/C14)

(P) GATE, PER C15

GATE

INSTALL 45° ELBOW INV EL=977.8

10" TW TO DISTRIBUTION SYSTEM

NOTES:

1. ALL PIPE SHALL BE FULLY RESTRAINED.
2. TRENCHING SHALL BE PERFORMED IN ACCORDANCE WITH CALAVERAS COUNTY WATER DISTRICT STANDARDS.
3. PROVIDE LOCKOUT VALVE COVER TO VALVE 7, PER SPECIFICATIONS.
4. NEW CHLORINE ANALYZER TO BE ECD DC-80 OR APPROVED EQUAL, REAGENT-LESS ANALYZER.

ISSUED FOR BID

REV	DATE	BY	DESCRIPTION
1	8/7/23	TMB	ADDENDUM #3

SCALE: 1" = 10'

DATE: JUNE 2023

WARNING 0 1/2 1

IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

DESIGNED AAS

DRAWN NMVL/TMB

CHECKED KBB

CALAVERAS COUNTY WATER DISTRICT
120 TOMA COURT,
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ENGINEERING . CONSULTING
80 Blue Ravine Rd. Suite 280
Folsom, CA 95630
PH. 916-608-2212

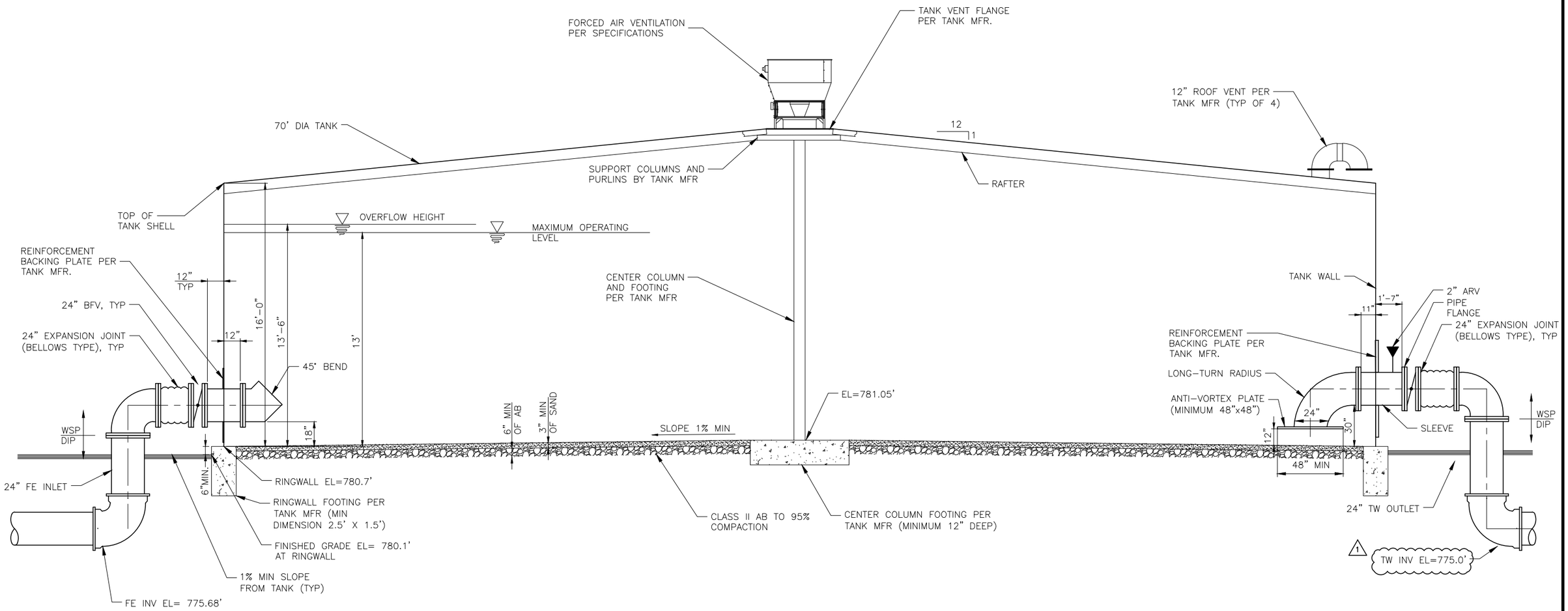
REGISTERED PROFESSIONAL ENGINEER — KARL B. BRUSTAD — No. 57869 Exp. 6/30/24 — CIVIL — STATE OF CALIFORNIA — 6/14/23

COPPER COVE WATER SYSTEM IMPROVEMENTS PROJECT - PHASE 1 AND PHASE 2 TANKS

B TANK SITE PIPING PLAN

DRAWING C8

SHEET 12 OF 42



NEW CLEARWELL SECTION

1" = 3'

A / C9

ISSUED FOR BID

REV	DATE	BY	DESCRIPTION
1	8/4/23	TMB	ADDENDUM #3

SCALE: AS NOTED

DATE: JUNE 2023

WARNING: 0 1/2 1 — IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

DESIGNED AAS
DRAWN NMVL/TMB
CHECKED KBB

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120 TOMA COURT,
SAN ANDREAS, CALIFORNIA 95249
PHONE (209) 754-3543

PETERSON . BRUSTAD . INC
ENGINEERING . CONSULTING
80 Blue Ravine Rd. Suite 280
Folsom, CA 95630
PH. 916-608-2212

REGISTERED PROFESSIONAL ENGINEER — KARL B. BRUSTAD — NO. 57809 Exp. 6/30/24 — CIVIL — STATE OF CALIFORNIA — 6/14/23

COPPER COVE WATER SYSTEM IMPROVEMENTS PROJECT - PHASE 1 AND PHASE 2 TANKS

TANK SECTION FOR NEW CLEARWELL

DRAWING C9A

SHEET 14 OF 42

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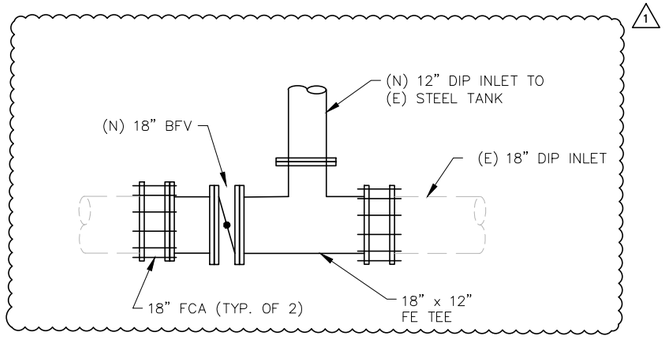
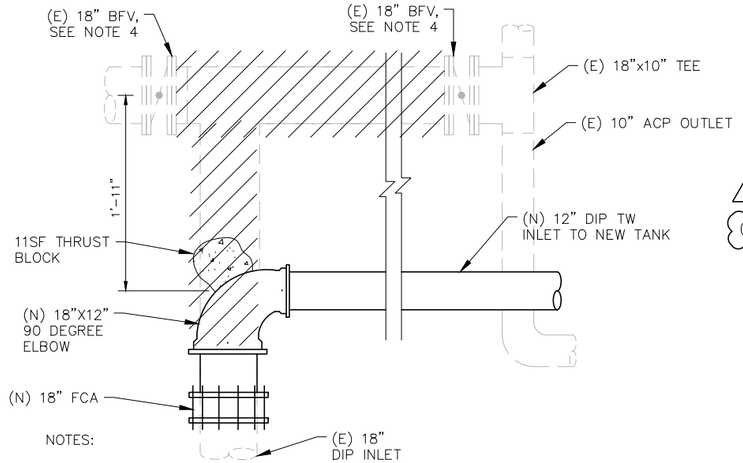


NOTES:

1. CONTRACTOR TO POTHOLE TO VERIFY EXISTING PIPE MATERIAL, OD, AND CONDITION PRIOR TO PREPARING DETAILED TIE–IN PLAN.
2. CONTRACTOR TO PROVIDE DETAILED TIE–IN PLAN FOR DISTRICT REVIEW AT LEAST 2 WEEKS PRIOR TO SCHEDULED WORK.
3. CONNECTION TO EXISTING 18" PIPE TO BE MADE AFTER NEW 12" IS INSTALLED AND DISINFECTED.

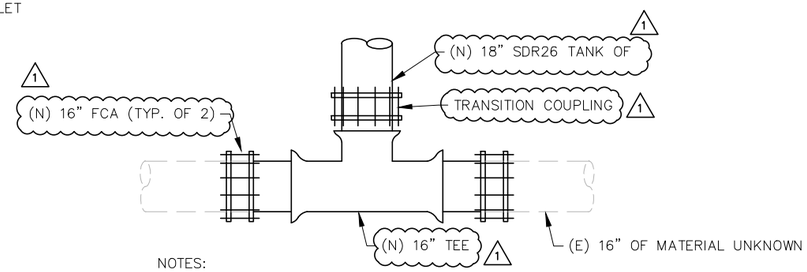
EXISTING B TANK INLET TIE–IN DETAIL 1
1/2" = 1' — C8



NOTES:

1. CONTRACTOR TO POTHOLE TO VERIFY EXISTING PIPE MATERIAL, OD, AND CONDITION PRIOR TO PREPARING DETAILED TIE–IN PLAN.
2. CONTRACTOR TO PROVIDE DETAILED TIE–IN PLAN FOR DISTRICT REVIEW AT LEAST 2 WEEKS PRIOR TO SCHEDULED WORK.
3. CONNECTION TO EXISTING 18" PIPE TO BE MADE AFTER NEW B TANK HAS BEEN DISINFECTED.
4. INSTALL BLIND FLANGE AND PERMANENTLY ABANDON VALVE AFTER COMPLETION OF TIE–IN.

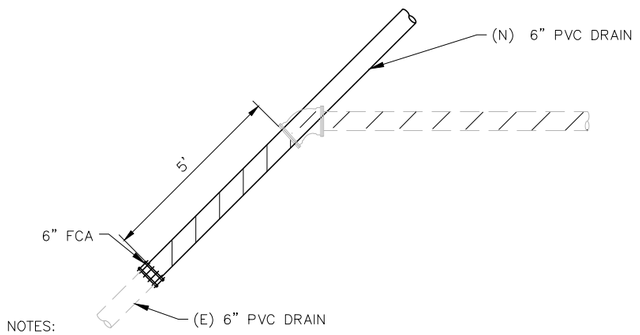
NEW B–TANK INLET TIE–IN DETAIL 2
NTS — C8



NOTES:

1. CONTRACTOR TO POTHOLE TO VERIFY EXISTING PIPE MATERIAL, OD, AND CONDITION PRIOR TO PREPARING DETAILED TIE–IN PLAN.
2. CONTRACTOR TO PROVIDE DETAILED TIE–IN PLAN FOR DISTRICT REVIEW AT LEAST 2 WEEKS PRIOR TO SCHEDULED WORK.

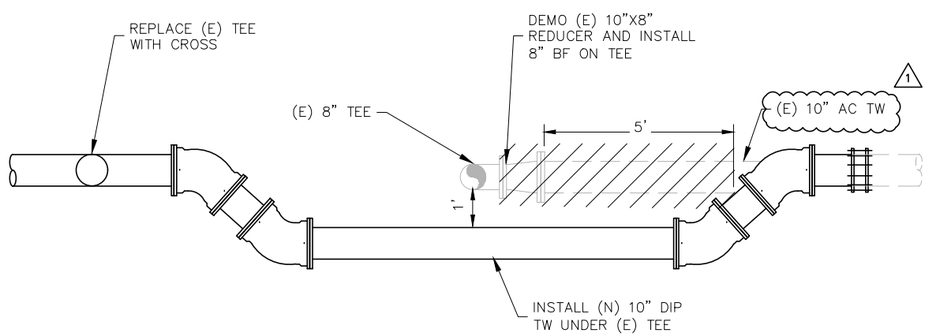
NEW B–TANK OVERFLOW TIE–IN DETAIL 3
NTS — C8



NOTES:

1. CONTRACTOR TO POTHOLE TO VERIFY EXISTING PIPE MATERIAL, OD, AND CONDITION PRIOR TO PREPARING DETAILED TIE–IN PLAN.
2. CONTRACTOR TO PROVIDE DETAILED TIE–IN PLAN FOR DISTRICT REVIEW AT LEAST 2 WEEKS PRIOR TO SCHEDULED WORK.

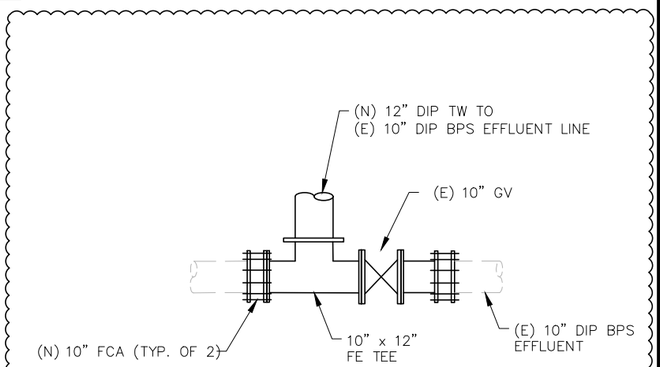
EXISTING B–TANK DRAIN TIE IN DETAIL 4
1/2" = 1' — C8



NOTES:

1. CONTRACTOR TO POTHOLE TO VERIFY EXISTING PIPE MATERIAL, OD, AND CONDITION PRIOR TO PREPARING DETAILED TIE–IN PLAN.
2. CONTRACTOR TO PROVIDE DETAILED TIE–IN PLAN FOR DISTRICT REVIEW AT LEAST 2 WEEKS PRIOR TO SCHEDULED WORK.
3. CONNECTION TO (E) TW TO BE MADE AFTER NEW 10" IS INSTALLED AND DISINFECTED.

EXISTING 10" TREATED WATER TIE IN DETAIL 5
1/2" = 1' — C8



NOTES:

1. CONTRACTOR TO POTHOLE TO VERIFY EXISTING PIPE MATERIAL, OD, AND CONDITION PRIOR TO PREPARING DETAILED TIE–IN PLAN.
2. CONTRACTOR TO PROVIDE DETAILED TIE–IN PLAN FOR DISTRICT REVIEW AT LEAST 2 WEEKS PRIOR TO SCHEDULED WORK.
3. CONNECTION TO EXISTING 10" PIPE TO BE MADE AFTER NEW 12" IS INSTALLED AND DISINFECTED.

EXISTING 10" TREATED WATER TIE IN DETAIL 6
1/2" = 1' — C8

ISSUED FOR BID

REV	DATE	BY	DESCRIPTION
1	8/4/23	TMB	ADDENDUM #3

SCALE: AS NOTED

DATE: JUNE 2023

WARNING: 0 1/2 1 — IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

DESIGNED AAS
DRAWN NMVL/TMB
CHECKED KBB

CALAVERAS COUNTY WATER DISTRICT
120 TOMA COURT,
SAN ANDREAS, CALIFORNIA 95249
PHONE (209) 754–3543

PETERSON . BRUSTAD . INC
ENGINEERING . CONSULTING
80 Blue Ravine Rd. Suite 280
Folsom, CA 95630
PH. 916–608–2212

REGISTERED PROFESSIONAL ENGINEER — KARL B. BRUSTAD — NO. 57869 Exp. 6/30/24 — CIVIL — STATE OF CALIFORNIA — 6/14/23

COPPER COVE WATER SYSTEM IMPROVEMENTS PROJECT - PHASE 1 AND PHASE 2 TANKS

PIPE CONNECTION DETAILS B TANK

DRAWING C14

SHEET 22 OF 42

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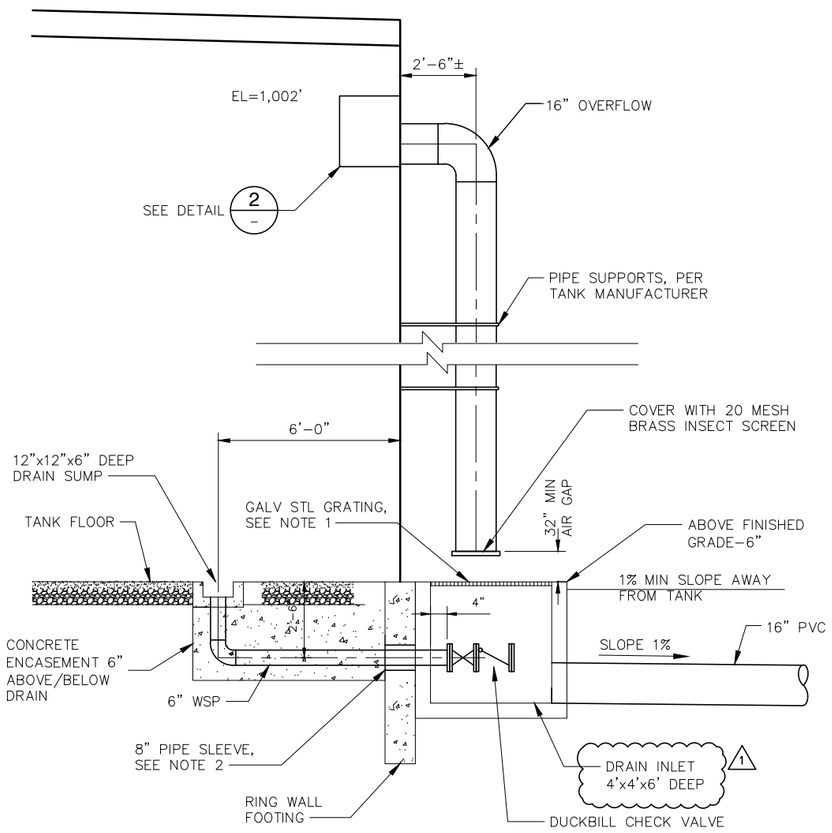
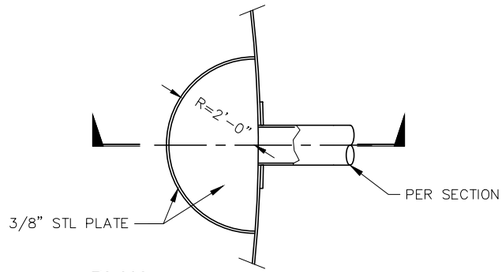


NOTES:

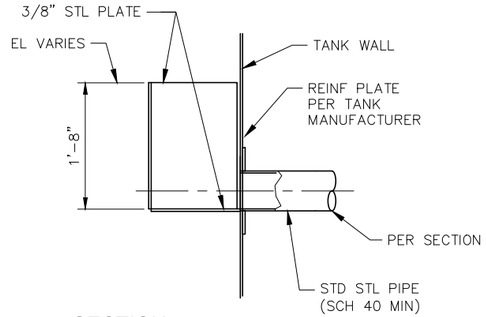
1. PROVIDE NOTCH IN GRATE FOR VALVE KEY.
2. PIPE SLEEVE SHALL BE STEEL ASTM A53, SCH 40, BLACK. SEAL SHALL BE FULL DEPTH COMPRESSION SEALANT W/FINISH SEALANT OR FULL DEPTH EXPANDING FOAM SEALANT.

NEW B TANK OVERFLOW/DRAIN DETAIL — 1

SCALE: NTS



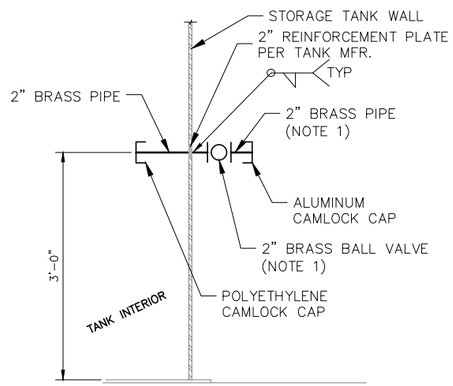
PLAN



SECTION

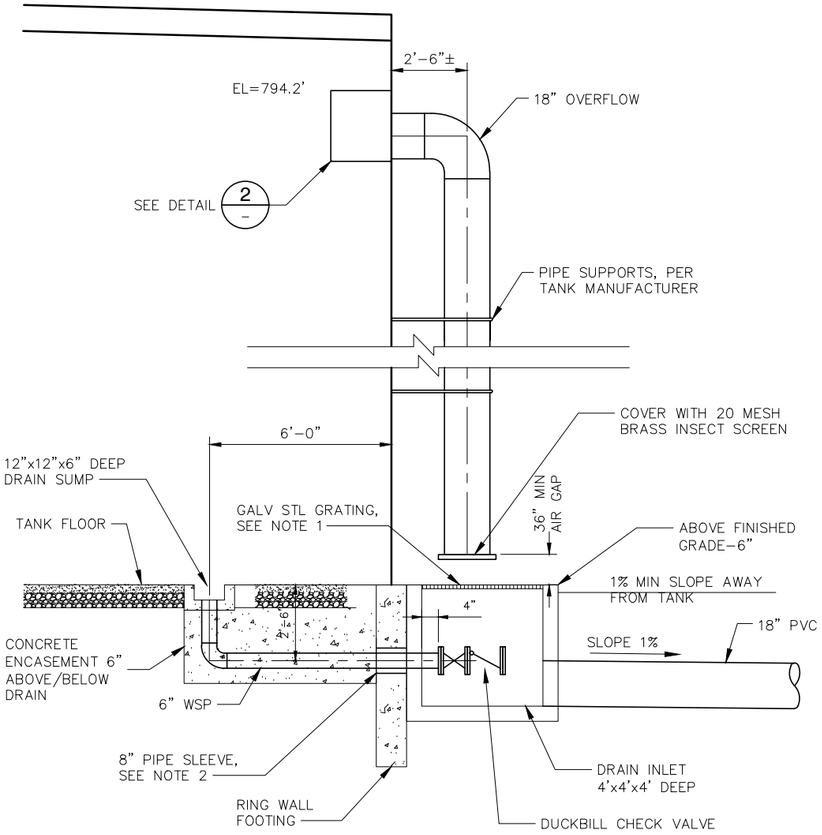
OVERFLOW DETAIL — 2

SCALE: 1/2"=1'-0"



MAINTENANCE PORT DETAIL — 3

SCALE: NTS



NOTES:

1. PROVIDE NOTCH IN GRATE FOR VALVE KEY.
2. PIPE SLEEVE SHALL BE STEEL ASTM A53, SCH 40, BLACK. SEAL SHALL BE FULL DEPTH COMPRESSION SEALANT W/FINISH SEALANT OR FULL DEPTH EXPANDING FOAM SEALANT.

NEW CLEARWELL OVERFLOW/DRAIN DETAIL — 4

SCALE: NTS

ISSUED FOR BID

REV	DATE	BY	DESCRIPTION
1	8/4/23	TMB	ADDENDUM #3

SCALE: AS NOTED

DATE: JUNE 2023

WARNING 0 1/2 1 — IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE.

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DRAWN NMVL/TMB
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80 Blue Ravine Rd. Suite 280
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PH. 916-608-2212

REGISTERED PROFESSIONAL ENGINEER — KARL B. BRUSTAD — NO. 57809 — Exp. 6/30/24 — CIVIL — STATE OF CALIFORNIA — 6/14/23

COPPER COVE WATER SYSTEM IMPROVEMENTS PROJECT - PHASE 1 AND PHASE 2 TANKS

NEW TANK OVERFLOW AND DRAIN DETAILS

DRAWING C16

SHEET 24 OF 42

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