ADDENDUM NO. 3

TO

BDVWA WATER SYSTEM IMPROVEMENTS AND CONSOLIDATION PROJECTS

October 16, 2026

All prospective bidders for the above-referenced project are to be aware that the following changes, additions, and/or clarifications shall be included as an integral part of the Contract Documents for the above-refenced project and that they are bound by the conditions set forth therein.

THIS ADDENDUM SHOULD BE ACKNOWLEDGED WHEN YOUR BID IS SUBMITTED. FAILURE TO ACKNOWLEDGE THE ADDENDUM MAY CONSTITUTE GROUNDS FOR REJECTION OF THE BID.

THE BIDDER SHALL ACKNOWLEDGE RECEIPT OF THIS ADDENDUM ON THE ADDENDA ACKNOWLEDGEMENT FORM INCLUDED IN THE BID FORMS.

In accordance with the provisions of the Business and Professions Code of the State of California, this addendum has been prepared under the general supervision and direction of the following professional engineer, licensed in the State of California.

Jared Nelson
Name

Project Engineer
Title

California Rural Water Association
Company/Firm Name



Seal

October 16, 2026
Date

BIGHORN-DESERT VIEW WATER AGENCY

Water System Improvements and Consolidation Projects

ADDENDUM 3
October 16, 2026

This Addendum consists of the following Items:

- Title Page
- Project Questions/Answers
- Project Manual / Specification Amendments
- Drawing / Sheet Amendments
- Attachment 1 – Amended Project Manual Sections and Bid Forms
- Attachement 2 – Amended Contract Drawings

QUESTIONS – ANSWERS

1	**Question:** *Pipe class, Items 7, 8 and 10: The bid items and Section 01150 call for 6" DR 14 C900, but the profiles on C301-C304 (Warren Vista), C601 (Lanes End) and a plan note on C403 (Winters Rd) call out DR 18. Which class should bidders price? Unless directed otherwise, we'll price DR 14. Also, the C601 label says 1,000 LF while the alignment is about 705 LF. Please confirm 705 LF is correct.* **Answer:** **All Pressure Zone D pipelines, including Warren Vista, Lanes End, Rainbow Drive, and the northern pipeline within the common trench on Winters Road, shall be C900 DR 18. Bid Items 7, 8, 9, and 10 in Section 01150 have been revised by this Addendum accordingly. The Zone B Transmission Main and HDWD pipeline shall be C900 DR 14. Within the common trench on Winters Road, the Zone B Transmission Main is the center pipeline and the HDWD pipeline is the southern pipeline; the Pressure Zone D pipeline is the northern pipeline. Drawings C401, C402, C403, and Detail 2 on C701 have been revised to reflect these requirements.** **The correct Lanes End pipeline quantity is 705 LF. The label on Drawing C601 has been revised accordingly.**
2	**Question:** *Stearman Road pipe size, Item 13: Vol 2 sheet C-02 calls for 1,023 LF of 8" PVC DR 18, but Bid Item 13 and 01150 Section 2.16 describe a 6-inch pipeline. Which size governs?* **Answer:** **8-inch piping governs. Bid Item 13 and Section 01150, Section 2.16 have been revised by this Addendum to reference 8-inch PVC DR 18 piping, consistent with Sheet C-02 of Volume 2. The revised Bid Sheet / Schedule of Prices is attached to this Addendum.**
3	**Question:** *Item 18 unit: The bid sheet lists 2 units as "Lump Sum." Should we enter a per-intertie unit price and extend it as 2 x unit price?* **Answer:** **The Bid Sheet / Schedule of Prices have been updated to show Item 18 cost per "Each" unit. The revised Bid Sheet / Schedule of Prices is attached to this Addendum.**
4	**Question:** *Asbestos-cement pipe: Which bid item pays for the 250' of 4" AC grout-and-abandon on C206? Can you provide the estimated total length of AC pipe to be cut, removed and disposed of? Is there an existing asbestos survey or test data, or must the contractor commission the pre-renovation survey? Who is the generator of record on the waste manifests?* **Answer:** **Payment for the approximately 250 LF of existing 4-inch asbestos-cement (AC) pipe shown on Drawing C206 to be grout-filled and abandoned in place shall be included under Bid Item No. 27. The pipe shall be abandoned in accordance with Detail 1 on Sheet C-14 of the Volume 2 Drawings and is not anticipated to be removed or disposed of in its entirety.** **AC pipe removal is anticipated only at localized tie-ins where short sections of existing AC**

	pipe must be removed to install new fittings and PVC piping. The total quantity of AC pipe anticipated to be disturbed is less than 260 LF, therefore it is possible that the MDAQMD will not require a Survey, Contractor shall verify. No existing asbestos survey or test data will be provided by the Agency. The Contractor shall comply with Section 028213.19 and all applicable MDAQMD and Cal/OSHA requirements, including completion of the applicable MDAQMD asbestos checklist and any survey, notification, or related documentation determined to be required based on the actual quantity and nature of AC pipe disturbed. All costs associated with localized AC pipe removal at pipeline tie-ins, including required surveys, notifications, handling, packaging, transportation, disposal, and documentation, shall be incidental to the applicable pipeline bid item under which the connection work is performed, and shall not be paid separately under Bid Item No. 27. **Bighorn-Desert View Water Agency shall be identified as the waste generator for AC pipe removed from the Agency's existing water system. The Contractor shall prepare and administer the required waste shipment records/manifests, coordinate with the approved disposal facility, obtain required signatures and disposal receipts, and submit the completed documentation to the Agency in accordance with Section 028213.19.**
5	**Question:** *Forshock, Item 26: Section 16010 1.1.F.11 says the Forshock price "will be renegotiated prior to bid time." Is $41,750 final, and is it a true allowance or a fixed lump sum? Can you share Forshock's proposal? Please also confirm what the prime carries outside that amount: panel setting and mounting, conduit and wire, antenna/mast/coax, radio path survey, field instruments, and software licenses (16010 1.1.J vs. 1.1.F.10).* **Answer:** **Bid Item 26 is a lump sum allowance in the amount of $41,750, including the Contractor's 13% markup for overhead and profit. Bidders shall include $41,750 for Bid Item 26. Section 16010, Paragraph 1.1.F.11, which states that the Forshock price will be renegotiated prior to bid time, is deleted by this Addendum.** **Forshock's scope includes PLC and OIT/HMI software development for the pump station, integration with the Agency's SCADA system, a licensed radio for communications to the Agency's main office, and a pre-mounted control assembly for installation within an existing enclosure or MCC.** **Forshock's scope excludes other field devices, integration with outside systems or agencies such as HDWD or MWA, field interconnections to pumps, contactors, MCC equipment, or other hardware, antenna mast/tower, and conduit. These items, together with required field wiring, installation, mounting, and coordination necessary to provide a complete operating system, shall be provided by the Contractor under the applicable electrical and instrumentation work.** **Forshock's proposal will not be separately issued. The scope and pricing applicable to this Contract are established by Bid Item 26, Section 01150, and this Addendum.**
6	**Question:** *Construction water and flushing: Which hydrants or meters are designated for each work area, and what source should we use at Lanes End? With the 300 gpm hydrant limit, the 8" main (Item 12) can't reach the specified 2.5 to 3 ft/s flushing velocity, which needs about 400 to 475 gpm. Will a higher draw or an alternate method be allowed? Which velocity governs, 3 ft/s (15042/15060) or 2.5 ft/s (15140)? Where can dechlorinated flush water be discharged?* **Answer:** **The 2.5 ft/s velocity specified in section 15060 shall govern. A maximum flow rate of 400 gpm is acceptable at all hydrants except the hydrants located at Boo Lane, Lanes End, and**

	Rainbow Drive. As noted in within the pre-bid meeting minutes of Addendum 1 the Boo Lane and Rainbow Drive hydrants may be used to fill a contractor furnished portable water tower with a max fill rate of 50 gpm from the hydrant. The Lanes End hydrant shall not be used by the Contractor. **The Contractor may also contact Hi-Desert Water District (HDWD) to inquire about using its hydrant located at the southeast corner of Warren Vista Road and Winters Road. All applicable water rates, backflow prevention requirements, and operational restrictions shall be established by HDWD.** **Alternatively, the Contractor may consider constructing the Zone B Transmission Pipeline from west to east, prior to construction of the Zone D piping, and installing a temporary interconnection equipped with a pressure reducing valve (PRV) to provide the necessary flushing flows for the Zone D piping. This approach would be considered part of the Contractor's means and methods and shall be performed at no additional cost to the Contract. In general flushing water may be discharged onsite outside the path of travel at locations approved by the Agency, in many instances the Contractor shall provide up to 100' of flat hose to dispose at a proper location.**
7	**Question:** *365-day milestone (01015 2.10.A): Does "complete" mean placed in service or installed and tested? Does it include restoration and revegetation? Is there a separate liquidated damages rate for the milestone? Does Day 1 start at NTP + 15 days? Do long-lead Zone B pumps qualify for the post-365 allowance?* **Answer:** **Section 01015, Part 2.10, has been revised by this Addendum to clarify the requirements of the 365-calendar-day construction milestone.** **Sections 2.10.A.1 and 2.10.A.2: Completion requires that all pipelines, pressure reducing valve (PRV) stations, and associated pipeline appurtenances, including blowoffs, service lines, combination air valves (CAVs), flushouts, trench cutoff walls, hydrants, and related improvements, be installed, tested, and placed into service, except as noted below.** **The Zone B Transmission Pipeline and Hi-Desert Water District (HDWD) intertie pipeline are not required to be placed into service until successful startup of the Zone B Booster Pump Station. These pipelines shall be installed and tested within the 365-calendar-day milestone. The same requirement applies to the 8-inch D-1 Booster Pump Discharge Pipeline shown on Drawing C-01 of Volume 2.** **Sections 2.10.A.3 and 2.10.A.4: Installation of the booster pumps at both pump stations may occur after the 365-calendar-day milestone, subject to the following requirements:** • **Zone B Booster Pump Station: All suction and discharge piping, including isolation valves, flow control valves, magnetic flow meters, motorized butterfly valves, and associated instrumentation, shall be installed within the 365-calendar-day milestone. Installation of the booster pumps may occur after this milestone.** • **D-1 Booster Pump Station: Installation of the booster pump, above grade (ductile iron) discharge piping, and associated fittings may occur after the 365-calendar-day milestone.** **No separate liquidated damages are assessed for failure to meet the 365 day milestone.** **As specified in the Special Conditions, the Contract Time commences fifteen (15) calendar days after the date established in the Notice to Proceed. The 365-calendar-day milestone is measured from that commencement date.** **All remaining Work shall be completed within the overall Contract Time of 548 calendar days.**

8	**Question:** *Permits: Is the CDFW LSAA issued and final (01503 still says "pending")? Is any Caltrans permit required? Please confirm the Agency has paid the County, Flood Control, ITP and LSAA permit fees. Are there date-specific work windows in Pipes Wash for nesting birds, burrowing owls or Flood Control's wet season?* **Answer:** **The CDFW LSAA has since been finalized, Section 01503 has been revised to reflect this. No Caltrans permit is required. The Agency has paid the County, Flood Control, WJT ITP, and LSAA fees. The Contractor must comply with applicable permit restrictions, biological surveys, and seasonal limitations.**
9	**Question:** *Geotechnical: Is the 2019 NV5 report the only geotechnical data available, and does it cover the Vol 2 alignments and the Zone B site? Since rock excavation is incidental, is the report a Contract Document or reference only?* **Answer:** **The November 14, 2019 NV5 Geotechnical Investigation Report is provided as Attachment C to the Project Manual. Figure No. 3 of the report identifies test pits TP-8 and TP-9 near the proposed Zone B Booster Pump Station site. Test pits TP-1 through TP-7 are representative of subsurface conditions in the vicinity of improvements shown in the Volume 2 Drawings. The 2019 NV5 investigation does not include test pits along the Volume 1 pipeline alignments.** **Additional historical geotechnical information is being provided under this Addendum. The May 19, 2011 Geotechnical Investigation Report prepared by Testing Engineers – Vertical Five, Inc. for the Ames/Reche Groundwater Storage and Recovery Pipeline Project includes four exploratory test pits along Winters Road, in the vicinity of a portion of the proposed Zone B Transmission Pipeline alignment.** **Both geotechnical reports are provided as supplemental reference information. However, certain recommendations contained in the 2019 NV5 Geotechnical Investigation Report are specifically referenced by the Contract Drawings and Technical Specifications. Where such recommendations are expressly referenced or required by the Contract Documents, the Contractor shall comply with those recommendations as applicable to the Work.** **The 2011 Geotechnical Investigation Report was prepared for a previous project and is provided solely as historical subsurface information. Its construction recommendations and design criteria are not incorporated into the current Contract and shall not supersede or modify the requirements of the current Contract Drawings and Specifications.** **Neither report constitutes a guarantee of subsurface conditions throughout the project limits.** **Rock excavation, if encountered, shall be included in the applicable bid item prices in accordance with Section 01150, Paragraph 2.1.L. Unforeseen or materially differing subsurface conditions shall be addressed in accordance with Section 6.12 of the General Conditions and Section I, Paragraph 8 of the Special Conditions.** **Section 01010, Paragraph 1.2.B, has been revised by this Addendum to clarify the status and applicability of the supplemental geotechnical information.**

	See the revised Attachement C, this addendum, for the hyperlink to the uploaded Ames/Reche Groundwater Storage and Recovery Pipeline Project Geotechnical Report.
10	**Question:** *D-1 pump at R-1: Can you provide the existing can depth and diameter or the record drawings? Who bears the cost if the can is unsuitable? Are the three gate valve replacements and any temporary generators for shutdowns included in Item 25?* **Answer:** **Drawing M-05 has been revised (see attachments) to include the dimensions of the existing wet well. The Agency recently inspected the can and has determined that is suitable for use. Yes all three gate valve replacements, including associated piping, fittings, connections, and appurtenances, are included in Bid Item No. 25 – Zone D1 Booster Pump Station Improvements. Refer to Section 01150, Paragraph 2.29.C, which expressly includes all piping, fittings, valves, and associated materials and equipment necessary to complete the improvements shown on the Contract Drawings. No separate payment will be made for these items.** **For electrical work on the existing MCC at the R-1 booster station the Agency can de-energize equipment for a maximum of 6 to 8 hours. No temporary generators are required.**
11	**Question:** *Zone B power: Has the Agency applied to SCE for the new service, and who pays SCE's fees? Will SCE delays be treated as a long-lead or excusable delay? Please confirm that no permanent standby generator is included (16010 2.2.A references a "standby generator").* **Answer:** **The Agency has initiated the application process with Southern California Edison (SCE) for the new electrical service at the Zone B Booster Pump Station. All SCE service installation fees will be paid directly by the Agency.** **The Agency anticipates that SCE will complete the new electrical service within the established Contract Time. No additional Contract Time is being provided for SCE service installation. The Contractor shall coordinate the required electrical work and service activation with SCE and the Agency. Any delays associated with SCE service installation shall be evaluated in accordance with the applicable provisions of the Contract Documents governing delays and extensions of Contract Time.** **If permanent electrical service is not available when the Contractor is ready to perform pump startup and commissioning, the Contractor may elect to utilize the Agency's existing 90 kW portable generator, subject to advance coordination and approval by the Agency. The Contractor shall be responsible for coordinating the necessary temporary electrical connections and verifying proper equipment operation.** **No permanent standby generator is included in the Contract. However, the Zone B Booster Pump Station shall include a manual transfer switch and provisions for connection of a portable generator, as indicated on the Contract Drawings. The references to a standby generator in Section 16010, Paragraphs 2.2.A.9 and 2.2.A.13, pertain to electrical equipment identification and labeling requirements and do not require furnishing a permanent generator.**
12	**Question:** *Deductive alternates: Please confirm the labels for 28 D-1 and 29 D-2. Does each deduction equal only the Item 10 or Item 15 pipe extension, or are the hydrants, CAVs and blow-offs on*

	those segments also deducted? How will the low bidder be determined if alternates are applied? **Answer:** **The Bid Form – Schedule of Prices and Section 01150 – Measurement and Payment have been revised and are attached in their entirety to this Addendum for clarification.** **The project includes the following two deductive alternatives:** • **Bid Item No. 28 (D-1): Deductive Alternative No. 1 – Lanes End 6-inch Pipeline.** • **Bid Item No. 29 (D-2): Deductive Alternative No. 2 – Reche Road 6-inch Pipeline.** **Each deductive alternative includes the corresponding pipeline extension and one associated fire hydrant assembly. The total deduction for D-1 shall equal the extended bid price for Bid Item No. 10 (705 LF), plus the unit price for one fire hydrant under Bid Item No. 23. Similarly, the total deduction for D-2 shall equal the extended bid price for Bid Item No. 15 (685 LF), plus the unit price for one fire hydrant under Bid Item No. 23.** **All associated piping, fittings, valves, connections, and incidental work included in the applicable pipeline unit price are included in the deduction. Neither pipeline extension includes a combination air valve (CAV) or blow-off assembly; therefore, no deductions under Bid Items No. 20 or 21 are applicable.** **In accordance with California Public Contract Code §20103.8(a), the lowest responsible bidder shall be determined solely on the Total Base Bid (Bid Items No. 1 through 27), without consideration of deductive alternatives. Following this determination, the Agency may apply D-1 and subsequently D-2, if necessary to meet budget constraints. Acceptance of deductive alternatives shall reduce the scope of Work and Contract Price but shall not change the determination of the lowest responsible bidder.**
13	**Question:** *Federal requirements: The package has no federal wage determination, DBE forms, EPA 6100 forms or AIS/BABA certification. Do Davis-Bacon, AIS/BABA or DBE requirements apply? If so, does anything need to be submitted with the bid?* **Answer:** **The project is funded through State of California funding sources and does not include federal funding. Accordingly, federal Davis-Bacon prevailing wage requirements, American Iron and Steel (AIS), Build America, Buy America (BABA), and federal Disadvantaged Business Enterprise (DBE) requirements are not applicable to this Contract.** **Federal wage determinations, EPA Form 6100 series documents, and AIS/BABA certifications are not required to be submitted with the bid. The Contractor remains responsible for complying with all applicable California prevailing wage requirements and other labor, procurement, and certification requirements identified in the Contract Documents.**
14	**Question:** *Work hours: The specs list 8-5, 7-4:30 and 7-5 in different places. Which hours govern on County roads, in Flood Control right-of-way, and on easements and Agency sites? Are 4x10s allowed?* **Answer:** **The applicable permit and specification working-hour restrictions are as follows:** • **San Bernardino County Public Works Right-of-Way: 7:00 AM to 4:30 PM, Monday through Friday, excluding County holidays, in accordance with Section 01500, Paragraph 3.6.D.** • **San Bernardino County Special Districts-Maintained Roads: The issued road excavation permits do not specify construction working hours.**

	• **San Bernardino County Flood Control District Right-of-Way: 7:00 AM to 5:00 PM, Monday through Friday, unless otherwise approved by the District, in accordance with Section 01503.** • **Agency Sites, Easements, and Other Work Areas: 8:00 AM to 5:00 PM, Monday through Friday, in accordance with Section 01010, Paragraph 1.5.A.** **Notwithstanding the earlier starting times permitted by certain jurisdictions, the Agency requires that construction work shall not begin before 8:00 AM unless otherwise approved in writing by the Agency. Work within San Bernardino County Public Works right-of-way shall conclude no later than 4:30 PM. Work at all other locations shall conclude no later than 5:00 PM, unless a more restrictive permit condition applies.** **Work commencing before 7:00 AM within County Public Works or Flood Control District right-of-way shall additionally require approval from the applicable permitting authority. Any other work outside the jurisdiction's permitted hours shall likewise require approval from that authority.** **Four-day, ten-hour work schedules (4×10s) are not permitted under the standard construction schedule. Any exceptions or alternative schedules shall require prior written approval from the Agency and, where applicable, the permitting authority.** **Sections 01010 and 01500 are revised by this Addendum to clarify the applicable working-hour requirements.**
15	**Question:** *Sheet C-22 (Jana Lane Connection Detail) is not shown on any plan sheet; its location is indicated only by the C-22 box on Key Map G-03. Please confirm the location and limits of the Jana Lane connection, the existing 12" main material, which bid item it is paid under, and the pipe class (detail shows DR 18; Section 15060 specifies DR 14). Also, Section 01015 §2.4.5.c references Drawing C-21; please confirm it should be C-22.* **Answer:** **The existing fire hydrant referenced on Drawing C-22 is located at approximately latitude 34.271496, longitude -116.385292. The existing water main is estimated to be approximately 30 feet west of the fire hydrant. The material, and depth of the existing water main have not been verified. The Contractor shall locate and expose the existing 12" pipeline through potholing in accordance with Section 310523 – Utility Potholing, prior to performing the connection. The limits of the proposed connection work shall be as shown on Drawing C-22, subject to field verification of existing conditions. All work associated with the Jana Lane connection shall be included under Bid Item No. 27 – All Remaining Work Included in the Contract Drawings and Specifications Not Included in Other Bid Items. Section 15060 specifies DR 14 pipe unless otherwise indicated on the Contract Drawings. Drawing C-22 specifically identifies DR 18 pipe; therefore, DR 18 pipe shall be furnished and installed for the proposed connection. Section 01015, Paragraph 2.4.5.A, has been revised to reference Drawing C-23, and Paragraph 2.4.5.C has been revised to reference Drawing C-22.**
16	**Question:** *Are there any domestic requirements on this project? I didn't see any but wanted to make sure.* **Answer:** **There are no domestic requirements based on our review of the project funding agreements, including the State Water Resources Control Board and Department of Water Resources grant agreements, no domestic material requirements, including American Iron and Steel (AIS) or Build America, Buy America (BABA), have been identified for this project.**

17	**Question:** *Can you please provide the total pump length for the vertical turbine pump described in section 11900? The pump is shown on drawing M-05, but this does not show the complete pump with the necessary dimensions. Pump length is a critical measurement in quoting pumps of this type.* **Answer:** **Drawing M-05 has been revised (see attachments) to include the dimensions of the existing wet well. The overall pump length is not prescribed in Section 11900. The Contractor shall furnish a vertical turbine pump that meets the performance requirements specified in Section 11900 and is dimensionally compatible with the existing wet well, including its inside diameter, depth, and required suction screen clearance. The final pump dimensions and installation configuration shall be provided in the Contractor's equipment submittal.**
18	**Question:** *I had a quick question about one of the pages included in the Bid Forms, specifically page 12 Debarment and Suspension Certification (attached). We do not keep an attorney on retainer; can we self-certify this form?* **Answer:** **Yes. The Debarment and Suspension Certification may be executed by a duly authorized representative of the Contractor. An attorney's signature or affirmation is not required. The Bid Forms have been revised to remove the attorney affirmation requirement and are attached in their entirety to this Addendum for clarification.**
19	**Question:** *Addendum 1 refers to acknowledging addenda in "Section 00400," which isn't in the manual. Is listing them on the Proposal and the Addenda Acknowledgement form sufficient?"* **Answer:** **The reference to Section 00400 in Addendum No. 1 is incorrect. All bidders shall acknowledge receipt of Addendum Nos. 1, 2, and 3 by completing and signing the Addenda Acknowledgement form located on Bid Forms.** **The acknowledgement shall identify each addendum by number and date. The completed and signed form shall be submitted with the bid. No separate Section 00400 acknowledgement is required.**
20	**Question:** *Can our broker sign the insurance acknowledgment for each insurer and surety?* **Answer:** **Yes, it is acceptable for the insurance broker to sign the insurance acknowledgement.**
21	**Question:** *Per Question 6 of Addendum 1 we are to list Forshock as a designated subcontractor for the project. Can you provide a copy of the proposed work, and all relevant listing information such as: license number, DIR number, and certification per bid form page 11 “debarment and suspension certification”?* **Answer:** **Forshock's proposal is not available for distribution. The scope of Forshock's work is identified in the Contract Drawings and Specifications and is covered by the allowance established under Bid Item No. 26. The Bidder is responsible for verifying Forshock's**

	applicable contractor licensing, DIR registration, and eligibility to perform the Work, including compliance with the Debarment and Suspension Certification requirements identified on Bid Forms, Pages 11–12. **The Bidder shall complete the required certifications based on its own verification of Forshock's qualifications and eligibility. If the Bidder identifies any deficiency or condition that may prevent Forshock from meeting the applicable requirements, the Bidder shall promptly notify the Agency in writing prior to bid submission so the matter can be reviewed and addressed.**
22	**Question:** *The link provided in Addendum 1 for the CDFW WJT Take Permit appears to apply only to the Pipes Wash location and the Zone B Booster Pump Station. Are the volume 2 drawing excluded from the permit?* **Answer:** **No, the improvements shown in the Volume 2 drawings are not excluded from the permit requirements. CDFW has issued a separate Western Joshua Tree Incidental Take Permit covering the Volume 2 improvements and the D-1 Booster Pump improvements shown in Volume 3.** **The Contractor may download the permit using the link below and shall review and comply with all applicable permit provisions and conditions affecting construction activities.** **https://drive.google.com/file/d/1hSU0_TWPwsyJq-na65MslON5xD-KnL9x/view?usp=sharing**

SPECIFICATION AMENDMENTS

Item No.	Spec. Section	Description
1	**Division 0 - Notice of Inviting Sealed Proposals**	Notice Inviting Sealed Proposals (Bids) – Page 1: Revise the bid submission deadline and public bid opening from October 20, 2026, at 11:00 AM to October 27, 2026, at 2:00 PM. Revise the deadline for receipt of mailed bids from October 19, 2026, to October 26, 2026. Bidders and interested parties may attend the public bid opening either in person at the Bighorn-Desert View Water Agency office, 622 South Jemez Trail, Yucca Valley, California, or virtually via Zoom using the following meeting information: Zoom Meeting – PWC26-01 Bid Opening Date: Tuesday, October 27, 2026 Zoom Meeting Opens: 1:45 PM Pacific Time Official Bid Opening: 2:00 PM Pacific Time Join Zoom Meeting: https://us02web.zoom.us/j/85730950152?pwd=eufBtPsugZ6d29cLr2gZ66y3rv

		g1o2.1 Meeting ID: 857 3095 0152 Passcode: 760412 Virtual attendance is provided for observation of the public bid opening only. Electronic submission of bids through Zoom is not permitted. Revised Notice Inviting Sealed Proposals attached in its entirety, this Addendum.
2	**Division 0 - Schedule of Prices**	Bid Sheet / Schedule of Prices: Revised Bid Item No. 13 to identify the Stearman Road pipeline as an 8-inch pipeline and Bid Item No. 18 to clarify the unit of measurement for Yucca Mesa Road Interties as "Each." Revised the bid evaluation provisions to establish that the lowest responsible bidder shall be determined solely on the Total Base Bid (Bid Items 1–27), in accordance with California Public Contract Code §20103.8(a). Clarified that deductive alternatives, if necessary to meet budget constraints, shall be applied in numerical order without affecting the determination of the lowest bidder. Corrected the descriptions of Deductive Alternatives D-1 and D-2 and revised their pricing to include one fire hydrant assembly each, using the corresponding Base Bid unit prices. Revised Bid Sheet / Schedule of Prices form attached in its entirety, this Addendum.
3	**Division 0 – Bid Forms**	Debarment and Suspension Certification: Revised Page 12 to eliminate the requirement for an attorney's affirmation and signature. The revised form permits the Contractor's authorized representative to execute the certification and affirmation. The Bid Forms are attached in their entirety to this Addendum for clarification. Revised Bid Forms attached in its entirety, this Addendum.
4	**Division 0 - Special Conditions**	Section II Part G.6, add the following: "Boulders and large rocks encountered during excavation shall be salvaged and reused as natural surface cover over disturbed areas, as directed by the Owner or Project Biologist. Materials shall be placed to approximate preconstruction conditions without obstructing drainage, access, or maintenance areas, and in compliance with applicable permit requirements."
5	**Division 0 – Attachment C**	Attachement C revised to include hyperlink to historical Ames Geotechnical Report Revised Attachement C attached in its entirety, this Addendum.
6	**Division 1 - 01010**	Revised Paragraph 1.2.B to identify additional historical geotechnical information, clarify the applicability of the 2019 and 2011 geotechnical investigations, and establish the governing requirements for construction and differing subsurface conditions. Revised section attached.

		Revised Section 01010 attached in its entirety, this Addendum.
7	**Division 1 - 01010**	Revised Paragraph 1.5.A to clarify that the Agency's standard construction working hours are 8:00 AM to 5:00 PM, Monday through Friday. Work beginning before 8:00 AM or extending beyond the established working hours requires prior written approval from the Agency and, where applicable, the permitting authority. Four-day, ten-hour work schedules (4×10s) are not permitted without prior approval. Revised Section 01010 attached in its entirety, this Addendum.
8	**Division 1 - 01015**	Revised Sections include: Parts 2.5, Item 1; 2.10.A.1 through 2.10.A.4; 2.10.C; and 2.10.E to clarify the 365-calendar-day construction milestone, pipeline testing and placement-in-service requirements, pump installation requirements, and work permitted during the remaining contract period. Revised Section 01015 attached in its entirety, this Addendum.
9	**Division 1 - 01015**	Part 2.4.5.A delete “C-22” and replace with “C-23”. Part 2.4.5.C delete “C-21” and replace with “C-22”. Revised Section 01015 attached in its entirety, this Addendum.
10	**Division 1 - 01150**	Part 2.9.C Delete “DR 14” and replace with “DR 18” Revised Section 01150 attached in its entirety, this Addendum.
11	**Division 1 - 01150**	Part 2.10.C Delete “DR 14” Revised Section 01150 attached in its entirety, this Addendum.
12	**Division 1 - 01150**	Part 2.11.C Delete “DR 14” and replace with “DR 18” Revised Section 01150 attached in its entirety, this Addendum.
13	**Division 1 - 01150**	Part 2.12.C Delete “DR 14” and replace with “DR 18” Revised Section 01150 attached in its entirety, this Addendum.
14	**Division 1 - 01150**	Part 2.16 Delete “BID ITEM NO. 13 – Stearman Road 6-inch Pipeline” And replace with: “BID ITEM NO. 13 – Stearman Road 8-inch Pipeline” Delete “…furnishing and installing all 6-inch DR 18 AWWA C900 PVC pipe…”

		And replace with: “furnishing and installing all 8-inch DR 18 AWWA C900 PVC pipe” Revised Section 01150 attached in its entirety, this Addendum.
15	**Division 1 - 01150**	Revised Parts 2.32 and 2.33 to clarify the scope and calculation of Deductive Alternatives D-1 and D-2, including the deduction of one fire hydrant assembly under Bid Item No. 23 for each alternative. Revised Section 01150 attached in its entirety, this Addendum.
16	**Division 1 - 01500**	Delete Paragraph 3.6.B in its entirety and replace with the following **“**B. Construction Working Hours: Unless otherwise authorized in writing by the Owner, construction work shall not begin before 8:00 AM, Monday through Friday, regardless of earlier starting times permitted by the applicable jurisdiction. Work within San Bernardino County Public Works right-of-way shall conclude no later than 4:30 PM. Work within San Bernardino County Special Districts-maintained roads, Flood Control District right-of-way, Agency sites, easements, and all other work areas shall conclude no later than 5:00 PM, unless more restrictive permit conditions apply. The Contractor shall comply with all applicable permit restrictions. Work outside the hours permitted by the applicable jurisdiction shall require prior approval from that permitting authority in addition to written approval from the Owner. Four-day, ten-hour work schedules (4×10s) are not permitted without prior written approval from the Owner.”
17	**Division 1 - 01503**	Part 3.1.N remove “PENDING” from title.
18	**Division 1 - 01503**	Part 1.1.C Delete: “(1) Caltrans Encroachment Permit and associated storm water requirements within Caltrans right-of-way;”
19	**Division 16 - 16010**	Delete Paragraph 1.1.F.11 in its entirety.
20	**Division 15 - 15042**	Part 3.2.A Replace “3 fps” with “2.5 fps”.

DRAWING / SHEET AMENDMENTS

Item No.	Drawing No.	Description
1	Vol. 1 – C001	Add “ABANDON” to legend.
2	Vol. 1 – C301	Delete “3/C704” detail reference.
3	Vol. 1 – C401	Replace “DR 14” with “DR VARIES” on profile annotation.
4	Vol. 1 – C402	Replace “DR 14” with “DR VARIES” on profile annotation.
5	Vol. 1 – C403	Replace “DR 14” with “DR VARIES” on profile annotation.
6	Vol. 1 – C701	Common trench detail 2 revised to include callouts for each of the pipes to indicate required wall thickness and identify each pipe relative to looking in an eastward direction.
7	Vol. 3 – M-05	Dimensions added to the depth and inside diameter of the existing can of Sectio B detail.

Attachment 1 – Amended Project Manual Sections and Bid Forms

NOTICE INVITING SEALED PROPOSALS (BIDS)

BIGHORN-DESERT VIEW WATER AGENCY
CONTRACT NO. PWC26-01
BDVWA Water System Improvements and Consolidation Projects

NOTICE IS GIVEN sealed proposals will be received by the Bighorn-Desert View Water Agency (Agency), at its office at 622 South Jemez Trail, Yucca Valley, California, until ~~11:00 a.m. on October 20, 2026~~ 2:00 p.m. on October 27, 2026 for furnishing the work described in the contract documents. Proposals will then and there be opened and publicly read aloud. Proposals received after the time announced for the opening will not be considered. Mailed bids must arrive before or on ~~October 19th~~ October 26, 2026 to be accepted. The Contract Documents may be examined at the office of the Agency or as specified below.

PUBLIC BID OPENING – VIRTUAL ATTENDANCE.
Bidders and interested parties may attend the public bid opening in person at the Agency office or virtually via Zoom. Virtual attendance is for observation only and does not authorize electronic bid submission.
Zoom Meeting: BighornDVWA - PWC26-01 Bid Opening
Date: Tuesday, October 27, 2026. Zoom meeting opens at 1:45 p.m. Pacific Time; official bid opening at 2:00 p.m. Pacific Time.
Join Zoom:
https://us02web.zoom.us/j/85730950152?pwd=eufBtPsugZ6d29cLr2gZ66y3rvg1o2.1
Meeting ID: 857 3095 0152 Passcode: 760412

Virtual attendance is provided for observation of the public bid opening only. Electronic submission of bids through Zoom is not permitted.

Location and Description of Work. The Project generally consists of the construction of approximately 26,100 LF of 6-inch PVC C900 water mains, 650 LF of 8-inch PVC C900 water mains, four (4) PRV stations in precast concrete vaults, trench cutoff walls, construction of a new CMU booster pump station, installation of a vertical turbine pump at an existing pump station, SCADA integration and PLC programming, and associated appurtenances (including combination air valve assemblies, fire hydrants, valves, fittings and more). Additional project information, bid requirements, and instructions are included in the Contract Documents.

Contract Documents. Interested contractors can review plans and specifications in any of the following ways: (1) Request a link to the Plans and Specifications from Rydell Asbenson at r.asbenson@mceng.us. (2) View them at the local office of BDVWA located at 622 Jemez Trail, Yucca Valley, California 92284. (3) Request a copy from SLO County Builders Exchange at their website slocbe.com or at planroom@slocbe.com (4) Request a copy from AGC Plan Room, AGC Members can access documents directly through the AGCSD Online Planroom (OPR). Non-members can request a 1-week free trial by emailing planroom@agcsd.org or visiting

https://login.onlineplanservice.com/login.aspx?sender=AGCS.

The Agency may reject any or all proposals and waive irregularities or informalities in any of the proposals. Each proposal shall be submitted only on the prescribed proposal form included with the contract documents. Any alteration to the proposal form will result in the rejection of the bid.

MANDATORY Pre-Bid Walk-Through. A Mandatory Pre-Bid Walk-Through will be conducted on Wednesday, September 30th starting at 10:00 a.m. The meeting will be held at 622 S. Jemez Trail, Yucca Valley, CA 92284. Personal Protective Equipment (PPE) is required for that walk-through. For safety reasons, attendees must bring and wear hard hats, safety vests, and close-toed shoes, if construction is occurring during the Pre-Bid Wal-Through.

Contractor Classification. Bidders on this work will be required to be licensed by the State of California as Classification A - General Engineering Contractor at the time of the bid and at the time of award as such license is defined in Section 7056 and/or Section 7058 of the Business and Professions Code and Sections 7055-7059 of Title 16 of the California Code of Regulations.

Prevailing Wages. The successful bidder is required to pay prevailing wages as determined by the Division of Industrial Relations. A copy of the Division's wage determinations is available for inspection at the Agency's headquarters. Any excavation five feet or deeper requires the submission of a separate shoring plan and an itemized bid. In all respects, the successful bidder shall comply with requirements of law pertaining to public works contracts.

Public Works Project. Public Works Requirements apply to this project, including, but not limited to:

A. all applicable requirements of Labor Code Sections 1771, 1774 - 1776, 1813, and 1815.

B. the appropriate number of apprentices are on the job site, as set forth in Labor Code Section 1777.5.

C. workers' compensation coverage, set forth in Labor Code Sections 1860 and 1861.

D. to keep accurate records of the work performed on the public works project, as set forth in Labor Code Section 1812.

E. inspection of payroll records pursuant to Labor Code Section 1776, and applicable regulations.

F. and other requirements imposed by law.

Dated: September 16, 2026

Marina D. West, PG Chief Engineer

BID FORM – SCHEDULE OF PRICES

(For Bid Items Defined in Section 01150 – Measurement and Payment)

Bid Item No.	Description	Dwg Vol.	Quantity	Units	Unit Price, $	Total, $
1	Bonds and Insurance	1, 2, 3	1	Lump Sum		
2	Mobilization and Demobilization	1, 2, 3	1	Lump Sum		
3	Traffic Control Plan Preparation and Implementation	1, 2, 3	1	Lump Sum		
4	Storm Water Pollution Prevention Plan	1, 2, 3	1	Lump Sum		
5	Adequate sheeting, shoring, and bracing, or equivalent method, for the protection of life or limb, conforming to applicable California Safety Orders.	1, 2, 3	1	Lump Sum		
6	Zone B 6-inch Transmission Pipeline	1	8,260	Linear Feet		
7	Warren Vista 6-inch Pipeline	1	3,470	Linear Feet		
8	Winters Road Common Trench (3) 6-inch Pipelines	1	2,600	Linear Feet		
9	Rainbow Drive 6-inch Pipeline	1	1,310	Linear Feet		
10	Lanes End 6-inch Pipeline	1	705	Linear Feet		
11	Zone B Flush Out Station	1	1	LS		
12	Reche Road and D-1 Pump Station 8-inch Pipeline	2	610	Linear Feet		
13	Stearman Road **8**-inch Pipeline	2	1,025	Linear Feet		
14	Osgood Avenue 6-inch Pipeline	2	1,360	Linear Feet		
15	Reche Road 6-inch Pipeline	2	685	Linear Feet		
16	Alta Avenue 6-inch Pipeline	2	4,005	Linear Feet		
17	North Kuna Avenue 6-inch Pipeline	2	2,643	Linear Feet		
18	Yucca Mesa Road Interties	2	2	**Each**		
19	PRV Station	1, 2	4	Each		

BID FORM – SCHEDULE OF PRICES CONTINUED

(For Bid Items Defined in Section 01150 – Measurement and Payment)

Bid Item No.	Description	Dwg Volume	Quantity	Units	Unit Price, $	Total, $
20	Combination Air Valve Assembly	1,2	15	Each		
21	Blow Off Assembly	1,2	4	Each		
22	Trench Cutoff Wall	1	14	Each		
23	Fire Hydrant	1,2	9	Each		
24	Zone B Booster Pump Station	3	1	Lump Sum		
25	Zone D1 Booster Pump Improvements	3	1	Lump Sum		
26	SCADA and PLC Programming	3	1	Lump Sum	$41,750	$41,750
27	All Remaining Work Included in the Contract Drawings and Specifications NOT included in other Bid Items.	1,2,3	1	Lump Sum		
TOTAL BASE BID PRICE (Bid Items 1 through 27)					$	

~~The Total Base Bid shall be the sum of Bid Items 1 through 27. Award, if made, will be based on the Total Base Bid unless otherwise determined by the Agency in accordance with the Contract Documents.~~The Total Base Bid shall be the sum of Bid Items 1 through 27. Pursuant to California Public Contract Code Section 20103.8(a), the lowest bid shall be determined solely on the Total Base Bid, without consideration of the prices for Deductive Alternatives D-1 and D-2. The apparent low bidder shall initially be identified on this basis, subject to a determination of bidder responsiveness and responsibility.

Following determination of the lowest responsible bidder, the Agency may accept Deductive Alternative D-1 and then Deductive Alternative D-2, in numerical order, if necessary to meet budget constraints. Any accepted deductive alternatives shall reduce the Work and Contract Price in accordance with the applicable bid prices but shall not alter the determination of the lowest responsible bidder.

Total Base Bid Price (Bid Items 1 through 27):_____

_____

(Written in Words)

BID FORM – SCHEDULE OF DEDUCTIVE ALTERNATIVE PRICES

(For Bid Items Defined in Section 01150 – Measurement and Payment)

Bid Item No.	Description	Dwg Volume	Quantity	Units	Unit Price, $	Total, $
28 D-1	~~Deductive Alternative 2 -~~ Deductive Alternative No. 1 – Lanes End 6-inch Pipeline	1	705	Linear Foot		
28 D-1	Fire Hydrant (Bid Item No. 23)	1, 2	1	Each		
28 D-1	Total Deductive Alternative No. 1 (Pipeline + 1 Fire Hydrant)					
29 D-2	~~Deductive Alternative 3 -~~ Deductive Alternative No. 2 – Reche Road 6-inch Pipeline	2	685	Linear Foot		
29 D-2	Fire Hydrant (Bid Item No. 23)	1, 2	1	Each		
29 D-2	Total Deductive Alternative No. 2 (Pipeline + 1 Fire Hydrant)					

~~Deductive Alternatives will be applied in the numerical order listed if required to meet budget constraints.~~Deductive Alternatives, if needed to meet budget constraints, will be applied in numerical order after determination of the apparent low bidder based solely on the Total Base Bid. Each alternative shall include the extended pipeline amount using the same unit price as Base Bid Item No. 10 or 15, as applicable, plus one fire hydrant at the unit price bid under Base Bid Item No. 23.

BID FORMS

BID BOND

KNOW ALL MEN BY THESE PRESENTS:

That we, _____ as principal and _____ as surety, are held and firmly bound unto BIGHORN-DESERT VIEW WATER AGENCY, hereinafter referred to as "OWNER," for the sum of _____dollars, ($_____), the amount being ten percent (10%) at least of the total amount of the bid, to be paid to the said OWNER, its successors, and assigns; for which payment, will and truly to be made, we bind ourselves, our heirs, executors, administrators, successors, and assigns, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH,
that if the certain proposal of the above bounden for the completion of the Project as specifically set forth in documents entitled Contract Documents and Specifications for the Water System Improvements and Consolidation Projects in accordance with the Specifications and Construction Drawings on file at the office of the Owner, 622 S. Jemez Trail, Yucca Valley, California, is not withdrawn within the period specified in Section 4 of the Information for Bidders, unless otherwise required by law, and notwithstanding the award of the contract to another bidder, and that if said proposal is accepted by the OWNER through action of its legally constituted contracting authorities and if the above bounden his/her heirs, executors, administrators, successors and assigns, shall duly enter into and execute a contract for such construction and shall execute and deliver the required Performance, Payment and Maintenance and Guarantee Bonds and proof of insurance coverage within fifteen (15) calendar days (not including holidays) after the date of notification by and from the said OWNER that the said Contract is ready for execution, then this obligation shall become null and void; otherwise it shall be and remain in full force and virtue.

IN WITNESS WHEREOF, we hereunto set our hands and seals this day of

_____ 20_____

_____
Signature

_____
Title

Note: The standard printed bond form of any bonding company acceptable to the OWNER may be used in lieu of the foregoing approved sample bond form provided the security stipulations protecting the OWNER are not in anyway reduced by use of the surety company's printed standard form.

LIST OF MATERIAL/EQUIPMENT SUPPLIERS

Name the manufacturer or manufacturers of the items listed below and every major product or major piece of equipment whose cost exceeds fifteen percent (15%) of the total bid amount.

In addition, the bidder is required to fill out the following blanks, listing manufacturers from whom it intends to purchase the indicated items and which selections will be considered as binding upon the Bidder, provided that all such selections shall comply with the provisions of the Contract Documents

No change shall be allowed by the Engineer of any material manufacturer or supplier listed after receipt of bids unless the manufacturer so listed cannot furnish materials meeting the specifications. Should such change be allowed, there will be no change in the amount of the bid originally submitted.

Item	Material	Manufacturer
1.	_____	_____
2.	_____	_____
3.	_____	_____
4.	_____	_____
5.	_____	_____
6.	_____	_____
7.	_____	_____
8.	_____	_____
9.	_____	_____
10.	_____	_____
11.	_____	_____
12.	_____	_____

Add additional sheet as required.

REFERENCES

(Offerer must complete the reference list as indicated for at least three (3) projects completed by Offerer within the past twenty-four (24) months that involved a similar scope of work to that requested by the Agency. This reference list is mandatory.)

REFERENCE No. 1

City/Agency: _____

Contact Name: _____ Phone Number: _____

Address: _____

Contract Amount: $ _____ Year: _____

Project Name & Description of work done: _____

_____

_____

_____

REFERENCE No. 2

City/Agency: _____

Contact Name: _____ Phone Number: _____

Address: _____

Contract Amount: $ _____ Year: _____

Project Name & Description of work done: _____

_____

_____

REFERENCE No. 3

City/Agency: _____

Contact Name: _____ Phone Number: _____

Address: _____

Contract Amount: $ _____ Year: _____

Project Name & Description of work done: _____

_____

_____

COMPANY AND PARTNERSHIP IDENTIFICATION

Bidder is familiar with and is satisfied as to all federal, state and local Laws and Regulations that may affect cost, progress, performance and furnishing of this work.

Legal name of Bidder _____

Street Address _____

Mailing Address _____

Business Telephone _____

Business Facsimile _____

Email Address _____

Type of Business:

☐ **Sole Proprietor** ☐ **Partnership** ☐ **Corporation** ☐ **Other:** _____

If corporation, indicate State where incorporated: _____

Contractor's License Numbers: _____ _____
(General Engineering Contractor Class "A") (Other)

Contractor's DIR* Registration: _____ _____
DIR Number Expiration Date

*DIR – California Department of Industrial Relations

AFFIDAVIT

I, the undersigned, certify and declare that I have read all the answers contained in this identification form and known their contents. The matters stated in the form answers are true of my own knowledge and belief, except as to those matters stated on information and belief, and as to those matters I believe them to be true. I declare under penalty of perjury under the laws of the State of California, that the foregoing is correct.

Dated: _____ _____

(Signature)

_____

(Printed Name and Title)

DESIGNATION OF SUBCONTRACTORS

In accordance with the provisions of Section 4100 and 4104 et. seq. of the Government Code of the State of California, the bidder shall, in its bid, list the name, License Number and Classification, and place of business of each subcontractor who will perform work or labor or render service to the prime contractor in an amount in excess of one-half of 1 percent of the prime contractor's total bid, including the percentage of Prime Contractor's total base bid.

Description of Work	Subcontractor/License No.	% of Contract

ADDENDA ACKNOWLEDGEMENT

The undersigned acknowledges receipt of the following ADDENDA:

Addendum No. _____ Date: _____

Addendum No. _____ Date: _____

Addendum No. _____ Date: _____

Addendum No. _____ Date: _____

Addendum No. _____ Date: _____

Name of Bidder: _____

Address: _____

Telephone Number: _____

By: _____
Signature Title

WORKERS' COMPENSATION CERTIFICATE

I am aware of the provisions of Section 3700 of the Labor Code which require every employer to be insured against liability for workers' 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.

Dated: _____

_____
Contractor (Type Full Name)

_____
(Signature)

_____
(Title)

_____
(Street Address)

_____
(City) (State) (Zip)

NOTE: If Contractor is a corporation, the legal name of the corporation shall be set forth above, together with the signature of the officer or officers authorized to sign contracts on behalf of the corporation. If the Contractor is a partnership, the true name of the firm shall be set forth above, together with the signature of the partner or partners authorized to sign contracts on behalf of the co-partnerships. If the Contractor is an individual, the name of the firm shall be set forth together with the signature.

NON-COLLUSION DECLARATION

The undersigned declares under penalty of perjury as follows:

1. _____, being first duly sworn, deposes and says that he or she is (title) _____ of (company name) _____, the party making the foregoing bid.

2. The bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation.

3. The bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and 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.

4. 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.

5. All statements contained in the bid are true.

6. The bidder has not, directly or indirectly, submitted the 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 to effectuate a collusive or sham bid.

Dated:_____

_____
Contractor (Type Full Name)

_____
(Signature)

_____
(Title)

_____
(Street Address)

_____
(City) (State) (Zip)

(Attach Notarial Acknowledgement of Contractor)

ACKNOWLEDGMENT OF INSURANCE REQUIREMENTS

By signing below, Bidder acknowledges the insurance requirements as listed in Section 6.18 of the General Conditions (and as supplemented by the Special Provisions Section II Part 1). By this acknowledgment, the Bidder and its insurance provider(s) and surety(ies) certify that they have read and understand the insurance and bonding requirements in their entirety, including limits of coverage, additional insureds and endorsements, and bonding requirements, and that the Bidder can provide the insurance coverage and bonds as required in the Contract documents without exception.

Bidder understands that if the insurance coverage provided in these referenced Sections above cannot be provided, its bid is subject to rejection by the Owner as non-responsive.

BIDDER

Company Name: _____

Authorized Signature: _____

Printed Name: _____

Title: _____

Date: _____

INSURANCE PROVIDER/SURETY REPRESENTATIVE

Insurer/Surety Name: _____

Authorized Signature: _____

Printed Name: _____

Title: _____

Date: _____

Bidder Must Provide This Acknowledgment for Each Insurer or Surety Providing Insurance Coverage or a Bond under this Contract

Debarment and Suspension Certification

1) The Contractor certifies, to the best of its knowledge and belief, that he/she and its subcontractors and subrecipients:
   a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any governmental entity (federal, state, or local;
   b) Have not, within the three (3) year period preceding this certification, been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, state, or local) transaction or contract under a public transaction, violation of Federal or state antitrust statutes, or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
   c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, state, or local) with commission of any of the offenses listed in subparagraph (1)(b) of this certification; and
   d) Have not, within the three (3) year period preceding this certification, had one or more public transactions (Federal, state, and local) terminated for cause or default.
2) The Contractor also certifies that, if Contractor later becomes aware of any information contradicting the statements of paragraph (1) above, it will promptly provide that information to the Agency.
3) If the Contractor is unable to certify to all statements in paragraphs (1) and (2) of this certification, through those means available to Applicant, including the System for Award Management (SAM) Exclusion list, Contractor shall indicate so in its applications, or in the transmittal letter or message accompanying its annual certifications and assurances, and will provide a written explanation to the State Agency.

DEBARMENT AND SUSPENSION CERTIFICATION

SIGNATURE PAGE

In signing this document, I declare under penalties of perjury that the foregoing certifications and assurances, and any other statements made by me on behalf of the Applicant are true and correct.

Signature _____

Date _____

Printed Name _____

~~As the undersigned Attorney for the above named Contractor,~~ I hereby affirm to the Agency that ~~it~~ **Contractor** has the authority under state and local law to make and comply with the certifications and assurances as indicated on the foregoing pages. I further affirm that, in my opinion, these certifications and assurances have been legally made and constitute legal and binding obligations of the Contractor.

I further affirm ~~to the Contractor~~ that, to the best of my knowledge, there is no legislation or litigation pending or imminent that might adversely affect the validity of these certifications and assurances or of the performance of the described project.

AFFIRMATION OF CONTRACTOR~~'S ATTORNEY~~

For_____(Name of Contractor)

Signature_____Date_____

Printed Name ~~of Applicant's Attorney~~ _____

CERTIFICATION REGARDING DRUG-FREE WORKPLACE REQUIREMENTS

The Contractor certifies that he/she, and his/her Subcontractors will provide a drug-free workplace by:

(a) Publishing a statement notifying employees that the unlawful manufacture, distribution, dispensing, possession or use of a controlled substance is prohibited in the Contractor's workplace and specifying the actions that will be taken against employees for violation of such prohibition;

(b) Establishing a drug-free awareness program to inform employees about—
   (1) The dangers of drug abuse in the workplace;
   (2) The Contractor's/Subcontractor's policies of maintaining a drug-free workplace;
   (3) Any available drug counseling, rehabilitation and employee assistance programs, and
   (4) The penalties that may be imposed upon employees for drug abuse violations occurring in the workplace.

(c) Making it a requirement that each employee to be engaged in the performance of the grant be given a copy of the statement required by paragraph (a);

(d) Notifying the employee in the statement required by paragraph (a) that, as a condition of employment under the grant, the employee will—
   (1) Abide by the terms of the statement; and
   (2) Notify the employer of any criminal drug statute conviction for a violation occurring in the workplace no later than five days after each conviction;

(e) Notifying the Agency within ten days after receiving notice under subparagraph (d)(2) from an employee or otherwise receiving actual notice of such conviction;

(f) Taking one of the following actions, within 30 days of receiving notice under subparagraph (d)(2), with respect to any employee who is so convicted—
   (1) Taking appropriate personnel action against such an employee, up to and including termination; or
   (2) Requiring such employee to participate satisfactorily in a drug abuse assistance or rehabilitation program approved for such purposes by a Federal, State, or local health, law enforcement, or other appropriate agency;

(g) Making a good faith effort to continue to maintain a drug-free workplace through implementation of paragraphs (a), (b), (c), (d), (e) and (f).

_____
Typed Name and Title of Certification Official

_____ _____
Signature Date

PUBLIC WORKS CONTRACTOR REGISTRATION CERTIFICATION

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

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

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

Name of Bidder:_____

DIR Registration Number:_____

DIR Registration Expiration:____

Small Project Exemption: Yes or No (circle one)1

Unless Bidder is exempt pursuant to the small project exemption, Bidder further acknowledges:

1. Bidder shall maintain a current DIR registration for the duration of the project.
2. Bidder shall include the requirements of Labor Code sections 1725.5 and 1771.1 in its contract with subcontractors and ensure that all subcontractors are registered at the time of bid opening and maintain registration status for the duration of the project.
3. Failure to submit this form or comply with any of the above requirements may result in a finding that the bid is non-responsive.

Name of Bidder_____

Signature_____

Name_____

Title_____

Dated_____

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

IRAN CONTRACTING ACT CERTIFICATION

(Public Contract Code sections 2202-2208)

Prior to bidding on, submitting a proposal, or executing a contract or renewal for a public entity contract for goods or services of $1,000,000 or more, a vendor must either: a) certify it is not on the current list of persons engaged in investment activities in Iran created by the California Department of General Services ("DGS") pursuant to Public Contract Code section 2203(b) and is not a financial institution extending $20,000,000 or more in credit to another person, for 45 days or more, if that other person will use the credit to provide goods or services in the energy sector in Iran and is identified on the current list of persons engaged in investment activities in Iran created by DGS; or b) demonstrate it has been exempted from the certification requirement for that solicitation or contract pursuant to Public Contract Code section 2203(c) or (d).

To comply with this requirement, please insert your vendor or financial institution name and Federal ID Number (if available) and complete **one** of the options below. Please note: California law establishes penalties for providing false certifications, including civil penalties equal to the greater of $250,000 or twice the amount of the contract for which the false certification was made, contract termination, and three-year ineligibility to bid on contracts. (Pub. Cont. Code § 2205.)

OPTION #1 - CERTIFICATION

I, the official named below, certify I am duly authorized to execute this certification on behalf of the vendor/financial institution identified below, and the vendor/financial institution identified below is not on the current list of persons engaged in investment activities in Iran created by DGS and is not a financial institution extending twenty million dollars ($20,000,000) or more in credit to another person/vendor, for 45 days or more, if that other person/vendor will use the credit to provide goods or services in the energy sector in Iran and is identified on the current list of persons engaged in investment activities in Iran created by DGS.

I certify (or declare) under penalty of perjury under the laws of the State of California that the foregoing is true and correct.

Vendor Name/Financial Institution (Printed) *Federal ID Number (or n/a)*

By (Authorized Signature)

Printed Name and Title of Person Signing *Date Executed*

OPTION #2 – EXEMPTION

Pursuant to Public Contract Code sections 2203(c) and (d), a public entity may permit a vendor/financial institution engaged in investment activities in Iran, on a case-by-case basis, to be eligible for, or to bid on, submit a proposal for, or enters into or renews, a contract for goods and services.

If you have obtained an exemption from the certification requirement under the Iran Contracting Act, please fill out the information below, and attach documentation demonstrating the exemption approval.

Vendor Name/Financial Institution (Printed) *Federal ID Number (or n/a)*

By (Authorized Signature)

Printed Name and Title of Person Signing *Date Executed*

COMPLIANCE WITH ECONOMIC SANCTIONS IN RESPONSE TO RUSSIA'S ACTIONS IN UKRAINE CERTIFICATION

Prior to bidding on, submitting a proposal, or executing a contract, a party/contractor must certify: 1) it is not a target of economic sanctions and 2) in compliance with economic sanctions imposed by the U.S. government in response to Russia's actions in Ukraine, as well as any requirements related to the Russian sanctions imposed by the California Governor's Executive Order N-6-22 issued on March 4, 2022, and under state law, if any.

To comply with this requirement, please insert the party/contractor name and Federal ID Number (if available), complete the information described below and execute by an authorized representative of the contractor.

CERTIFICATION

I, the authorized representative for the contractor named below, certify I am duly authorized to execute this certification on behalf of the contractor below, and the contractor identified below has conducted a good faith review of existing contracts. I attest that the contractor is not a target of economic sanctions, and that contractor is in compliance with the economic sanctions imposed by the U.S. government in response to Russia's actions in Ukraine, as well as any requirements related to the Russian sanctions imposed by the California Governor's Executive Order N-6-22 issued on March 4, 2022, and under state law, if any.

Party/Contractor Name (Printed) *Federal ID Number (or n/a)*

By (Authorized Signature)

Printed Name and Title of Person Signing

Date

FLEET COMPLIANCE CERTIFICATION

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

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

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

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

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

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

Name of Bidder: _____

Signature: _____

Name: _____

Title: _____

Dated: _____

ANTI-LOBBYING CERTIFICATION

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

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form LLL, "Disclosure Form to Report Lobbying", in accordance with its instructions.

3. The undersigned shall require that the language of this certification be included in the award documents for all sub-awards at all tiers (including sub-contracts, sub-grants, and contracts under grants, loans, and cooperative agreements) and that all sub-recipients shall certify and disclose accordingly.

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

The Contractor, _____, certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. Chap.38, Administrative Remedies for False Claims and Statements, apply to this certification and disclosure, if any.

Name of Bidder: _____

Signature: _____

Name: _____

Title: _____

Dated: _____

ATTACHMENT A – California Department of Water Resources – IRWM (Prop 1/Round 2)
Implementation Grant Agreement
(Mojave Water Agency Subaward Agreement)

A pdf. copy of the Grant Agreement may be downloaded at the following URL:

https://drive.google.com/file/d/1oO417HSGj4Ph3OONP3yqkX0RAD3GCzbe/view?usp=sharing

ATTACHMENT B – State Water Resources Control Board – Prop. 1 Drinking Water Construction Grant (and all future amendments)

A pdf. copy of the Grant Agreement may be downloaded at the following URL:

https://drive.google.com/file/d/1N4WOYqfC6HmCFOvvNuHXvmMidXq-U3P0/view?usp=drive_link

A pdf. copy of Amendment 1 to the Grant Agreement may be downloaded at the following URL:

https://drive.google.com/file/d/1iYQcKrFtpEQKwbpP_Qv8LsNh_07xB1Qb/view?usp=sharing

ATTACHMENT C – Geotechnical Reports

NV5 Geotechnical Investigation Report

A pdf. copy of the document may be downloaded at the following URL:

https://drive.google.com/file/d/1QB8qiN6OXIIwAxC8mOqYJFrY3tE37Rj2/view?usp=drive_link

Vertical Five, Inc. for the Ames/Reche Groundwater Storage and Recovery Pipeline Project

A pdf. copy of the document may be downloaded at the following URL:

https://drive.google.com/file/d/1BoNj4TyGytlfc_qpGCtqqtAOQoNn22-m/view?usp=sharing

ATTACHMENT D – CDFW Streambed Alteration Permit

A pdf. copy of the document may be downloaded at the following URL:

https://drive.google.com/file/d/1PlfXHcAkd3jI0KdJnqzE_e4YEzKUxVFU/view?usp=drive_link

SECTION 01010
SUMMARY OF WORK

PART 1 - GENERAL

1. SUMMARY

A. This Section includes the following:

1. Work covered by the Contract Documents.
2. Contract Documents Organization.
3. Supplemental Document.
4. Project contacts.
5. Use of premises and Owner occupancy.
6. Utilities and Agency contact information.
7. Work restrictions.

1.2 CONTRACT DOCUMENTS ORGANIZATION

These contract documents consist of a single Project Manual and three drawing sets, Volume 1, 2, and 3. The work of all three Volumes are bound by a single agreement between the BDVWA and the prime Contractor. The work of all three Volumes shall meet the requirements of the Technical Specifications within the Project manual. All work consists of improvements to the potable water distribution systems owned and operated by the BDVWA.

A. Contract Documents
1. Project Manual
a. Contains:
1) Bidding Documents
2) Other construction procurement documents, certifications, certain, the Agreement, bond forms, General Conditions, and Supplementary Conditions.
3) General Requirements.
4) Technical Specifications for drawing Volumes 1, 2, and 3.
2. Volume 1 Drawings – Transmission and Distribution Pipelines Improvement Project
a. General improvements in Volume 1 consist of:
1. Installation of a 6-inch transmission main to convey water from the proposed Zone B Booster Station located at Winters Road and Balsa Avenue to the west end of pressure Zone B at Winters Road and Gill Road.
2. Installation of 6-inch distribution piping to complete Zone D loops on Warren Vista Avenue, Winters Road, Rainbow Drive, and Lanes End.
3. Installation of 6-inch intertie pipeline connecting the HDWD potable water system with the BDVWA.

3. Volume 2 Drawings – Consolidation of BDVWA and GM Systems
a. General improvements in Volume 2 consist of:
1. Installation of PRV stations and 6-inch pipelines located on Alta Avenue

and Kuna Avenue to create Pressure Zone F.

2. Installation of 6-inch pipelines to extend to interconnect Pressure Zones E and B.
3. Additional installation of 6-inch pipelines and interties to better loop Pressure Zone B.
4. Installation of a 6-inch pipeline from the proposed D1 booster pump, located in the existing R1 booster pump station, to Pressure Zone D located on Reche Road.
5. Abandonment and removal of existing asbestos cement pipe.

4. Volume 3 Drawings – Zones B and D1 Pump Stations Improvements
   a. General improvements in Volume 3 consist of:
      1. Installation of the Zone B Booster Pump Station: a CMU pump house complete with two multi-stage vertical in-line pumps including power distribution panels, control panels, various valving, motorized valve actuators, various ductile iron piping, instrumentation, controls panels, HVAC equipment, conductors, conduits, other electrical improvements, site piping, site grading, site utilities and new power service.
      2. Installation of the D1 booster pump at the existing R1 pump station consisting of installing a vertical turbine pump in the existing spare can along with discharge piping and appurtenances. Installation of power panel, control panel, conductors, conduits, and other electrical improvements.

B. ~~SUPPLEMENTAL DOCUMENTS~~ SUPPLEMENTAL REFERENCE DOCUMENTS

The geotechnical reports are furnished as supplemental subsurface information. Certain recommendations in the November 14, 2019 NV5 Geotechnical Investigation Report are expressly referenced or required by the Contract Drawings and Technical Specifications. Where so referenced or required, the Contractor shall comply with those recommendations as applicable to the Work. A general reference to the 2019 report shall not make all recommendations in that report Contract requirements. The May 19, 2011 historical geotechnical report pertains to a previous project and is furnished for historical subsurface information only; its design criteria and construction recommendations are not incorporated into this Contract and shall not supersede or modify the current Contract Drawings or Specifications. Test pit logs describe conditions only at the explored locations and depths and do not guarantee conditions elsewhere. Unforeseen or materially differing subsurface conditions shall be addressed in accordance with General Conditions Section 6.12 and Special Conditions Section I, Paragraph 8.

1. ~~Geotechnical Investigation Report – Prepared by NV5, November 14, 2019. Project No. 226815-0000025.07~~ Geotechnical Investigation Report – Prepared by NV5, November 14, 2019. Project No. 226815-0000025.07. Prepared for the BDVWA Water System Improvements Project; includes explorations associated with the Volume 2 and Volume 3 improvements.

2. Historical Geotechnical Investigation – Ames/Reche Groundwater Storage and Recovery Pipeline Project, prepared by Testing Engineers – Vertical Five, Inc., May 19, 2011, Contract No. 149152. Includes four exploratory test pits along Winters Road between Pipes Wash and Warren Vista of the Volume 1 Zone B Transmission Pipeline alignment.

3. Topographical Exhibit – Prepared by Fomotor Engineering, September 19, 2024. Project No. 24062

1.3 PROJECT CONTACTS:

A. Owner:
Marina West
Bighorn-Desert View Water Agency
622 Jemez Trail,
Yucca Valley, CA

B. Engineer:
California Rural Water Association

C. Owner's Representative during Construction:
California Rural Water Association

D. Contractor: To be determined.

1.4 USE OF PREMISES

A. General: Contractor shall have limited use of premises for construction operations as required for execution of the Work. Contractor shall maintain operations of BDVWA facilities throughout construction.

B. Use of Site: Limit use of premises to work in areas at the construction sites indicated. Do not disturb portions of Owner property beyond areas in which the Work is indicated. Project location is for an operating water system. Contractor must not disturb Owner's operations.
1. Owner Occupancy: Allow for Owner occupancy of Project site.
2. Roads and Entrances: Keep roads and entrances serving premises clear and available to Owner, Owner's employees, and emergency vehicles at all times. Do not use these areas for parking or storage of materials.
   a. Schedule deliveries to minimize use of roads and entrances.
   b. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on-site.
   c. Maintain Owner's entry roads available at all times.

1.5 WORK RESTRICTIONS

A. On-Site Work Hours: Work shall be generally performed on site during normal business working hours of 8:00 a.m. to 5:00 p.m., Monday through Friday, except otherwise indicated. Notwithstanding earlier starting times allowed by applicable permits, construction work shall not begin before 8:00 a.m. without prior written approval from the Owner. Work within San Bernardino County Public Works right-of-way shall conclude no later than 4:30 p.m.; work in San Bernardino County Special Districts-maintained roads, Flood Control District right-of-way, Agency sites, easements, and other work areas shall conclude no later than 5:00 p.m., unless a more restrictive permit condition applies. The applicable County Public Works and Flood Control District restrictions allow work beginning at 7:00 a.m.; however, work before 7:00 a.m. within those jurisdictions additionally requires approval from the respective permitting authority. Work outside any other permitted work-hour window likewise requires approval from the applicable permitting authority. Four-day, ten-hour (4x10) work schedules are not permitted under the standard construction schedule. Exceptions and alternative schedules require prior written approval from the Owner and, where applicable, the permitting authority.

B. Shutdowns affecting customer service shall be scheduled off-hours when possible; anticipate some after-hours and weekend work to maintain service continuity.

C. Existing Utility Interruptions: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted under the following conditions and then only after arranging to provide temporary utility services according to requirements indicated:

1. Notify Construction Manager and Owner not less than two days in advance of proposed utility interruptions.
2. Do not proceed with utility interruptions without Owner's written permission.

1.6 OWNER OCCUPANCY

A. Owner Occupancy: Owner will occupy site during entire construction period. Cooperate with Owner during construction operations to minimize conflicts and facilitate Owner usage. Perform the Work so as not to interfere with Owner's day-to-day operations
1. Provide not less than 7 days' notice to Owner of activities that will affect Owner's operations.

B. Immediately prior to Full Owner occupancy of new facilities, Engineer shall issue a certificate of Substantial Completion designating a date of occupancy and defining the area occupied:
1. Contractor's responsibilities:
   a. Allow access for Owner's personnel.
   b. Allow access for public.
2. Owner's responsibilities:
   a. Assume responsibility for power requirements.
   b. Assume responsibility for property insurance on occupied areas.
   c. Assume responsibility for security and fire protection in occupied areas, but not extending to protection of Contractor's materials and equipment in occupied areas.
3. Other conditions of occupancy:

C. The correction period for the occupied Work shall commence at the date of full Owner occupancy.

1.7 UTILITIES AND AGENCY CONTACT INFORMATION

Utility Type	Agency / Company	Contact / Department	Phone
Water	Bighorn-Desert View Water Agency	Marina West	(760) 365-2315
Natural Gas	Southern California Gas Company	Bruce Lombardi	(760) 228-1400
Disposal	Burrtec	Jennifer Salcicciola	(760) 365-2015
Water	Hi-Desert Water District	Ron Wortham	(760) 365-8333
Electricity	Southern California Edison	Map Requests / Public Works	(714) 796-9932
Telephone	Verizon California	Larry Moore	(760) 778-3610
Cable	Time Warner Cable	Cynthia Franklin	(760) 674-5404
Highway	Caltrans District 8	District Office – Martin Morris	(909) 645-0579
Highway (General)	Caltrans	General Hotline	(866) 383-4631
Non-Potable Water	Mojave Water Agency	Adnan Anabtawi	(760) 946-7000
County Roads	SBCO Public Works Transportation Division	Joseph E. Brady	(909) 387-7910
Special Districts Department	SBCO Permitting	Carlos Martinez	(909) 386-8821
County Water & Sewer	SBCO Special Districts	Ted S. Moreno	(909) 386-8800
County Roads	Permits/Operations Support Division-Transportation	Silvia Gomez (DPW)	(909) 387-8212
Flood Control	SBCO Flood Control District	Stacy Serrano	(909) 387-8005

1.8 SEQUENCING

A. Coordinate sequencing with Section 01015.

1.9 PRECONSTRUCTION MEETING

A. Construction Manager shall schedule and administer preconstruction meeting and specially called meetings throughout the progress of the Work:
   1. Prepare agenda for meetings.
   2. Distribute written notice of each meeting 4 days in advance of meeting date.
   3. Make physical arrangements for meetings.
   4. Preside at meetings.
   5. Record the minutes; include all significant proceedings and decisions.
   6. Reproduce and distribute copies of minutes within 3 days after each meeting:

a. To all participants in the meeting.
b. To all parties affected by decisions made at the meeting.
c. Furnish 3 copies of minutes to Engineer.

B. Schedule within 20 Days After Effective Date of Agreement.
C. Location: A central site, convenient for all parties, designated by Engineer.
D. Attendance:
1. Owner's representative.
2. Engineer and his professional consultants.
3. Construction Manager.
4. Contractor's superintendent.
5. Major subcontractors.
6. Major suppliers.
7. Others as appropriate.

E. Suggested Agenda:
1. Distribution and discussion of:
a. List of major subcontractors and suppliers.
b. Projected construction schedules.
2. Critical Work sequencing.
3. Major equipment deliveries and priorities.
4. Project coordination:
a. Designation of responsible personnel.
5. Procedures and processing of:
a. Field decisions.
b. Proposal requests.
c. Submittals.
d. Change Orders.
e. Applications for Payment.
6. Adequacy of distribution of Contract Documents.
7. Procedures for maintaining record documents.
8. Use of premises:
a. Office, work, and storage areas.
b. Owners's requirements.
9. Construction facilities, controls, and construction aids.
11. Temporary utilities.
12. Safety and first-aid procedures.
13. Security procedures.
14. Housekeeping procedures
15. Contractor's Work Plan
a. Safety Plan
b. Traffic Plan
c. Noise and Dust Control Plan

1.10 PROGRESS MEETINGS

A. Hold weekly Progress Review meetings.
B. Location of the Meetings: Construction Trailer.
C. Attendance:
1. Engineer and his professional consultants as needed.
2. Subcontractors as appropriate to the agenda.

3. Suppliers as appropriate to the agenda.
4. Others.

D. Suggested Agenda:
1. Review of Work progress.
2. Field observations, problems, and conflicts.
3. Problems that impede construction schedules.
4. Review of off-site fabrication and delivery schedules.
5. Corrective measures and procedures to regain projected schedules.
6. Revisions to construction schedules.
7. Plan progress schedules during succeeding Work period.
8. Coordination of schedules.
9. Review submittal schedules; expedite as required.
10. Maintenance of quality standards.
11. Review proposed changes for effect on construction schedules and on completion dates.
12. Other business.
13. Review of current 'As-Built' record set maintained by Contractor.

1.11 PROTECTION AND MAINTENANCE OF SITE

A. Protect, shore, brace, support, and maintain underground pipes, conduits, drains, and other underground construction uncovered or otherwise affected by construction operations.

B. Restore to their original condition, pavement, surfacing, driveways, curbs, walks, buildings, utility poles, guy wires, fences, and other surface structures affected by construction operations, together with sod and shrubs in yards and parking areas, whether within or outside the easement.

C. Use New Materials for Replacements.

1.12 PRESERVE AND RESTORE EXISTING SURVEY MONUMENTS

A. The Contractor shall not disturb permanent survey monument or bench mark. The Contractor shall bear the expense of replacing any monument or benchmark that may be disturbed without permission. Replacement shall be done only with the direction of and in the presence of the Engineer.

B. Should the Contractor during the course of construction encounter a survey monument or benchmark not shown on the plans, he/she shall promptly notify the Engineer so that the monument or bench marks may be referenced accordingly.

1.13 SUBSTANTIAL COMPLETION

A. For the purposes of establishing when the Project is substantially complete and suitable for its intended purpose, the following functional components and Work elements shall be completed including testing:
1. All new interconnection pipelines installed, pressure tested, disinfected, and in service.
2. PRV stations installed, tested, and commissioned; pressure zones operational.
3. Zone B Booster Station built, installed, tested, and operational in automatic mode; operator training completed.
4. R-1 Pump Station upgrades installed, tested, and operational in automatic mode; operator training completed.
5. Access road paved and capable of supporting traffic.
6. All electrical, lighting, instrumentation and control panels installed and operable.

7. Factory training provided to Owner's staff for all mechanical and electrical equipment and systems furnished and demonstrated to be fully functional in automatic mode.
8. SCADA modifications tested, demonstrated functional, and operator training completed.
9. Approved closeout of all permits and plans for which the Contractor is responsible for closeout, including County Encroachment Permits and the Storm Water Pollution Prevention Plan; and completion of, and documentation demonstrating compliance with, all Contractor responsibilities and applicable conditions of the CDFW Streambed Alteration Agreement, Western Joshua Tree Incidental Take Permit, and County Flood Control District Permit, including requirements necessary to support Agency closeout of those permits.

B. Items of work that may follow substantial completion:
   1. Submittal and approval of up to date 'As-Built' redlines.
   2. Submittal and approval of all O&M manuals as required.
   3. Final touch-up work, touch-up painting, caulking, and cleanup.
   4. Identifying Devices.
   5. Punch list items completed.
   6. File notice of completion.

END OF SECTION

SECTION 01015

SEQUENCE OF CONSTRUCTION

PART 1 - GENERAL

1.1 SUMMARY

A. The construction of this project will occur while the Water System is operating to meet specific, critical permit requirements. The operations necessary to meet these requirements are of higher priority than construction activities. Schedules of connections, piping modifications, PRV installations, and pipeline installations shall be submitted to the Owner for approval, and all such items shall be coordinated throughout the entire construction period.

B. The Contractor shall not operate any distribution system valves or equipment unless authorized and supervised by BDVWA operations personnel.

C. The Contractor shall prepare and submit a project schedule, as called for in Section 01310, prior to the initial estimate for partial payment for all new work as well as outlining the schedule and time requirements for each item involving an existing treatment unit, piece of equipment, and conveyance system. The project schedule, schedule of values, bypass plan, traffic plan, and safety plan must be approved by the Owner before the initial estimate for partial payment is submitted.

D. The Contractor shall perform all potholing as specified in Section 310523 – Utility Potholing.

E. The Contractor shall notify the Owner in writing a minimum of 14 calendar days prior to beginning work in a particular area, and again a minimum of 3 calendar days prior. Coordinate with the Owner the specific items to be isolated and the planned duration for each. Obtain written approval from the Owner prior to each shutdown. High flow conditions or equipment outages may require rescheduling of an approved shutdown. Any costs associated with rescheduling shall be incidental to the Contract.

F. The Contractor shall notify the Owner in writing a minimum of 3 calendar days prior to any testing of a unit, facility, or pipeline segment, and shall coordinate with the Owner the specifics of the testing (test method, duration, instrumentation, discharge location, and pass/fail criteria). Obtain written approval from the Owner prior to each test.

G. Prior to beginning work on shutdowns and process connections, the Contractor shall have on-site all materials, equipment, and personnel necessary to complete the work in the time scheduled. The Contractor shall also perform all possible tasks to the most complete state possible. For example, all exposed bolts and nuts on valves, flanges, or fittings which are to be disassembled shall be removed and replaced one at a time prior to shut down and connections; thus, allowing for as timely completion as possible.

H. For connections to existing AC pipe or during potholing the Contractor shall have spare on-site material and equipment necessary to make emergency repairs to existing AC pipe which may unexpectedly fail during construction activities.

I. Access by Owner to all existing Owner facilities must be maintained at all times.

J. Plugged pipelines, in which water has been standing, shall be cleaned of debris prior to conducting Work by Contractor in the project area/locations.

K. The Contractor shall be required to maintain the access roads utilized during construction in a reasonably clean condition. As needed street cleaning and scraping will be required as directed by the Owner.

L. Access roads shall not be utilized for storage of materials.

M. The Contractor shall exercise all isolation valves, and verify their functionality, a minimum of three (3) calendar days prior to construction activities requiring the operation of valves.

1.2 SUBMITTALS

A. The Contractor shall include the Sequence of Construction in the overall project schedule called for in Section 01310, Construction Schedules.

B. Additional submittals related to shutdowns and diversions shall include, at a minimum:

1. Shutdown/Diversion Request: Proposed date/time, duration, location limits, valves to be operated, and expected customer impacts.
2. Isolation and Tie-In Plan: Step-by-step sequence, staffing plan, contingency plan, and restoration steps.
3. Temporary Bypass Plan (when required): Pump sizing basis, hoses/piping, fittings, thrust restraint, discharge routing, and backflow prevention.
4. Customer Notification Plan: Proposed notification method(s), draft notice content, and contact log format.
5. Valve Exercise/Operation Log: Record of valves exercised and operated, including dates and observed condition.

1.3 CONTRACTOR'S RESPONSIBILITIES DURING SHUTDOWNS AND DIVERSIONS

A. The Contractor's responsibilities during any and all shutdowns or diversions are outlined below. A diversion is defined as any operation which makes necessary diversion of flow around any structure or process which is normally in service. A shutdown is defined as taking any process or piece of equipment out of service whether flows are or are not diverted around any process.

B. Supply of Equipment:

1. The Contractor shall be responsible for providing all equipment, labor, and materials for accomplishing the diversion or shutdown on schedule. Contractor shall have on hand additional equipment replacement parts, couplings, and hose in case of breakdown or emergency.

C. Dewatering:

1. The Contractor shall be responsible for dewatering of any structures and excavations necessary for completion of construction, including dewatering for all diversions and shutdowns. Contractor shall also be responsible for maintaining dewatering of the excavation, if necessary, for completion of the

work. Contractor shall also maintain watertight any dam or bulkhead, temporary or otherwise, if leakage from the dam or bulkhead will result in adverse impacts on the Owner's operations or require maintenance by Owner's personnel. The Contractor shall be responsible for supplying all pumps, piping (temporary or otherwise), and any other items necessary for the above dewatering. Dewatering shall be defined as removal of all liquid, sludge, grit, and any other solids or liquids as necessary to accomplish construction. The Contractor is cautioned that the existing facilities may contain significant quantities of grit and other solids that the Contractor is required to remove and dispose of off-site.

D. Timely Completion:

1. The Contractor shall be responsible for the manning and scheduling of all shutdowns and diversions to accomplish them within the approved outage window. This responsibility includes coordination with all applicable utility companies, Owner's staff, and other Contractors working onsite. If any overtime or shift work is required to accomplish the shutdown or diversion within the required time limits, the cost of such overtime or shift work shall be at the Contractor's sole expense.

E. Coordination with Owner

1. All pipeline shutdowns must be coordinated with and approved by the Owner. Contractor shall submit a proposed shutdown schedule at least 14 calendar days in advance and shall not perform shutdowns without written approval from the Owner for each shutdown event.
   a. The Owner will not permit work to be performed in a manner that requires a series of system shutdowns on consecutive calendar days.
   b. In the event of an unplanned service interruption, Contractor shall immediately notify the Owner and implement emergency measures to restore service and maintain water quality as quickly and safely as practicable.
2. Water System pipe connections at pumping stations and distribution areas shall be coordinated with the Owner and shall be performed during off-peak or low-flow periods, or alternate means to divert flow shall be provided.
3. If pumps are used for diversions, the pumps must be sized for the range of flows the system is experiencing at the time.
   a. The Contractor shall have an employee on site 24 hours a day to observe that flow diversion pumps are operating continuously.
   b. Owner may also require cellular auto dialer or other alarms in the Emergency notification plan.

F. Contractor shall coordinate all customer/public notifications with the Owner prior to distribution. At a minimum:

1. Provide a list/map of affected services and anticipated outage durations.
2. Provide initial notice to affected customers a minimum of 14 calendar days prior to the shutdown and provide a reminder notice 24 to 48 hours prior.
3. Notices shall include the planned outage window, expected impacts, precautions (e.g., water use), and an emergency contact number.
4. Schedule off-hours shutdowns when feasible (generally after 5 PM and before 7 AM and/or weekends), as directed by the Owner.
5. Provide advance signage and warning to the public as required by the Owner

and applicable encroachment permit conditions.

PART 2 - CONSTRUCTION SEQUENCE FOR SPECIFIC ITEMS

2.1 GENERAL

A. The Contractor shall submit a Work Plan for specific work items. The Work Plan shall list the sequence of operations for each phase of work, including (as applicable) demolition, temporary bypass/diversions, dewatering, isolation boundaries, tie-ins, disinfection, pressure testing, and restoration/return-to-service for each installed pipe segment and improvement. The Work Plan shall be incorporated into the Contractor's schedule. The Work Plan shall be submitted for the Owner's approval prior to starting any work at the work areas described in the Work Plan.

B. The Work Plan shall incorporate:

1. Safety Plan, per Section 01950
2. Traffic Control Plan, per Section 01500
3. Confined Space Entry Plan, per Section 01950
4. Noise and Dust Control Plan, per Section 01500
5. Emergency Notification and Response Plan (including on-call contact list and procedures for unplanned service interruptions)
6. Water Quality Protection Plan for temporary bypasses and system tie-ins (backflow prevention, flushing, and disinfection coordination).

C. The Contractor shall coordinate and schedule each task necessary to complete all work within the time allowed for the Project. Coordination and time limitations for individual facilities are described in the following paragraphs. If and when necessary, limitations shall be discussed and approved by Owner.

D. Each phase may require the Contractor to perform work such as installing temporary or permanent plugs and/or diversion facilities in structures that are in service. The specifics related to flow diversion and temporary plugging means and methods are the responsibility of the Contractor; however, the Contractor's plans and schedules shall be submitted to the Owner for review and approval.

2.2 GENERAL CONSTRUCTION SEQUENCING

A. The contract times for this project assume that, in general, Volumes 1 and 2 pipeline improvements may occur in parallel with the pump station improvements of Volume 3.

B. Construction sequencing requirements specific to each Volume are described in parts 2.3, 2.4, and 2.5 below.

2.3 VOLUME 1 DRAWINGS – RECOMMENDED CONSTRUCTION SEQUENCING AND SCHEDULING

A. Prior to mobilization or commencement of any Project-related activity at the site, the Contractor shall attend a preconstruction biological coordination meeting with BDVWA and the Project Biologist to review the Contractor’s responsibilities and applicable permit requirements. The Contractor shall not begin work until this meeting has been completed and authorization to proceed has been provided by BDVWA. An overview

of the Streambed Alteration Permit and Western Joshua tree Incidental Take Permit and CEQA MMP requirements is presented within Section II of the Special Conditions, the full document is included by reference in Attachment D.

B. Construction sequencing of the Zone B Transmission pipeline, Zone D distribution improvements, and HDWD intertie pipeline may be scheduled at the Contractor's discretion. The Contractor's sequencing and scheduling shall conform to all applicable permit times requirements (San Bernardino County Encroachment Permit, Western Joshua tree Incidental Take Permit conditions, Streambed Alteration Permit, SWPPP, and BDVWA requirements).

2.4 VOLUME 2 DRAWINGS – RECOMMENDED CONSTRUCTION SEQUENCING AND SCHEDULING

A. The purpose of the Volume 2 pipeline and PRV improvements is to consolidate separate parts of the distribution system by installation of interconnection pipelines. This consolidation will also require the creation of a new pressure zone by installation of PRV stations and additional pipelines. Therefore, the Contractor shall follow the recommended sequential order of improvements as enumerated below and shall maintain clear communication with BDVWA and the Engineer regarding scheduled shutdowns, as required to maintain a functioning and safe operating water distribution system during construction. No alternative sequencing shall be acceptable without formal review and written approval by the Owner and Engineer

1. Install PRVs and pipelines to establish Pressure Zone F.
    a. Complete installation of PRV station F2 and F3 complete with bypass piping, isolation valves, ductile iron fittings, and connections to existing pipelines as shown on Details 2 and 3 on Drawing C-22 of Volume 2. Maintain bypass piping open such that flows bypass the PRV.
    b. Complete installation of Alta Avenue pipelines as shown on Volume 2 Drawings C-06, C-07, and C-08.
    c. Complete installation of Kuna Avenue pipelines as shown on Volume 2 Drawings C-10, C-11, and C-12.
2. Bring Pressure Zone F into service.
    a. Coordinate with the BDVWA to close bypass piping at PRV stations F2 and F3 effectively directing all flow through each PRV and adjust downstream pressure set points as directed by BDVWA or Engineer.
3. Install interconnection pipelines between Pressure Zone E-1 and Pressure Zone B.
    a. Installation of pipeline from Osgood Avenue to Mitch Road / Bearing Tree Road as shown on Volume 2 Drawings C-03 and C-04. Maintain isolation valve in closed position as indicated on C-04.
    b. Installation of pipeline on Camulis/Sterman Road as shown on Volume 2 Drawings C-02. Maintain isolation valve in closed position as indicated on C-02.
4. Interconnect Zone E-1 and Zone B.

a. Coordinate with the BDVWA to isolate the R1 reservoir from Zone B by closure of isolation valve No. 543 on Jana Lane.

b. Coordinate with BDVWA to open isolation valves on Mitch Road / Bearing Tree Road and Camulis / Sterman Road.

5. Connect Jana Lane to Pressure Zone E-1

a. Complete installation of PRV station F1 complete with bypass piping, isolation valves, ductile iron fittings, and connections to existing pipelines as shown on Details 1 Drawing ~~C-22~~ C-23 of Volume 2.

b. Complete Yucca Mesa interties as shown on Drawing C-13 of Volume 2.

c. Complete Jana Lane connection as shown on Drawing ~~**C-21**~~ **C-22** of Volume 2.

2.5 VOLUME 3 DRAWINGS – RECOMMENDED CONSTRUCTION SEQUENCING AND SCHEDULING

1. ~~**Startup of the Zone B Booster Pump Station (Volume 3) may not be initiated until all Volume 1 improvements are complete and in service.**~~ **Startup of the Zone B Booster Pump Station (Volume 3) may not be initiated until the Volume 1 improvements required for startup are installed, successfully tested, and ready to be placed in service. The Zone B Transmission Pipeline and HDWD intertie pipeline may be placed in service in coordination with successful startup of the Zone B Booster Pump Station. All other Volume 1 improvements shall be placed in service as required by Paragraph 2.10.A.1.**

2. Startup of the D1 Booster Pump Improvements (Volume 3) may not be initiated until completion of the 8" PVC main from the existing R1 booster pump house to Reche Road as shown on drawing C-01 of Volume 2.

2.6 GENERAL PIPELINE SEQUENCE OF CONSTRUCTION

A. Locate all utilities as specified in Section 310523 – Utility Potholing.

B. Perform clearing, grubbing, and site preparation within the pipeline work limits, including removal of surface improvements as required.

C. Install traffic control, erosion control, and temporary access measures necessary to safely support construction activities and maintain public and utility access.

D. Excavate trenches for pipelines and appurtenances. Provide trench shoring, trench boxes, or other excavation support in accordance with OSHA requirements. Prepare subgrade and install bedding material.

E. Furnish and install new water pipelines, including pipe, fittings, valves, appurtenances, restrained joints, and thrust restraint, in accordance with the approved drawings and specifications.

F. Coordinate with the Owner and fully isolate the work area by shutting down all water at the nearest upstream and downstream isolation valves serving the work limits, as required. Confirm valve status and system isolation under Owner supervision prior to commencing tie-in activities. All work shall conform to Part 1 - General of this Section 01015.

G. Make approved shutdown connections to existing water lines, as authorized by the Owner, while minimizing service disruptions.

H. Remove and dispose of asbestos cement pipe as required in Section 028213.19.

I. Perform initial cleaning, flushing, and disinfection of all installed pipelines, valves, and appurtenances in accordance with Section 15140.

J. Prepare temporary restraints and conduct hydrostatic pressure testing of installed pipelines in accordance with Section 15042, correct deficiencies and retest until approved by Engineer.

K. After successful hydrostatic pressure testing , perform final flushing, disinfection, and bacteriological testing in accordance with Section 15140.

L. Following successful completion of bacteriological testing complete final connections to existing water mains.

M. Perform final paving, grading, surface restoration, and repair of affected improvements to match or exceed pre-construction conditions.

N. Provide startup and commissioning services as required and place the pipelines into operation in coordination with the Owner.

O. Achieve Substantial Completion.

P. Final Completion.

2.7 PUMPING AND DEWATERING OPERATIONS

A. Work to be performed may require draining, pumping and dewatering, and certain cleaning operations necessary to complete the work as specified and as indicated on the drawings. It is the intent of these specifications that such draining, pumping and dewatering, and cleaning operations shall be the obligation of the Contractor.

B. The Contractor shall provide all necessary pumping as required to remove all surface water, groundwater, leakage, and water from other sources from excavations. Excess water from dewatering operations shall be disposed of in a manner acceptable to the Owner. Contractor shall comply with Best Management Practices and industry standards.

C. The Contractor shall provide all necessary pumping and piping as required to fill and/or refill facilities for placement into operation.

2.8 WATER FOR CONSTRUCTION

A. The Contractor may use Owner potable water for construction purposes only upon pre-approval by the Owner. Coordinate in advance with the Owner on the location(s) and amount of water available. Contractor is responsible for all associated costs unless otherwise stated.

B. Contractor shall take adequate precautions to protect the Owner's lines from contamination or damage.

C. If the Contractor desires to utilize Owner water at fire hydrants, he shall only use water from a hydrant predetermined for use by the Agency that has been equipped with a meter and slow closing valve, both of which are furnished and installed by the Agency. When

the Contractor is using water from the hydrant, he shall open the hydrant valve in the morning and use the valve which has been installed for control at all other times. At night, upon cessation of construction operations, the hydrant valve shall be closed. At all other times when the Contractor's valve remains on the outlet, the Contractor shall keep necessary wrenches available at the hydrant so that the valve can be quickly removed by the Owner in case of fire. The Owner will not allow use of existing fire hydrants unless the Contractor adheres to the above-described requirements. At any time, Owner's use of hydrant water shall not be hindered by the Contractor. Fire hydrants suitable for use by the Contractor will be identified by the Owner during mobilization.

2.9 EQUIPMENT STARTUP AND COMMISSIONING

A. Equipment Startup and Commissioning:

1. All equipment installations shall be inspected and tested by the Manufacturer's Representatives in accordance with the equipment specifications prior to placement into operation. Performance testing of the equipment shall be completed by the equipment Manufacturer's Representatives after placement into operation in accordance with the equipment specifications.
2. Submit startup and commissioning schedule and manufacturer field service reports to the Owner for record.

2.10 CONSTRUCTION MILESTONE – 365 CALENDAR DAYS

A. Within three hundred sixty-five (365) calendar days from the Contract start date stipulated in the Notice to Proceed, the Contractor shall complete the following Work:

~~1. Volume 1 – Transmission and Distribution Improvements: Complete all Work shown and specified in Volume 1.~~ 1. Volume 1 – Transmission and Distribution Improvements: Complete installation, required pressure testing, disinfection and bacteriological testing, and placement in service of all Volume 1 pipelines and related appurtenances, including blowoffs, service lines, combination air valves (CAVs), flushouts, trench cutoff walls, hydrants, valves, and fittings. Exception: The Zone B Transmission Pipeline and HDWD intertie pipeline shall be fully installed and successfully tested within 365 calendar days but are not required to be placed in service until successful startup of the Zone B Booster Pump Station.

~~2. Volume 2 – Consolidation Improvements: Complete all Work shown and specified in Volume 2.~~ 2. Volume 2 – Consolidation Improvements: Complete installation, required pressure testing, disinfection and bacteriological testing, and placement in service of all Volume 2 pipelines, PRVs, and related appurtenances, including blowoffs, service lines, CAVs, flushouts, hydrants, valves, and fittings. Exception: The 8-inch D-1 Booster Pump discharge pipeline shown on Drawing C-01, Volume 2, shall be fully installed and successfully tested within 365 calendar days but is not required to be placed in service until startup of the D-1 Booster Pump.

~~3. Volume 3 – Zone B Booster Pump Station: Complete construction of the booster pump station building and all associated civil, structural, and mechanical improvements, including site improvements, process piping, valves, appurtenances, and installation of the booster pumps.~~ 3. Volume 3 – Zone B Booster Pump Station: Complete construction of the booster pump station building and associated civil and structural improvements. Prior to the 365-calendar-day milestone, all suction and discharge process piping shall be erected and installed in place, including isolation valves, flow control valves, magnetic flow meters, motorized butterfly valves, and associated instrumentation. Installation of the Zone B booster pumps, together with startup, operational testing, and commissioning, may be completed after the 365-calendar-day milestone, but within the overall Contract Time.

~~4. Volume 3 – D-1 Booster Pump Station: Complete installation of the D-1 booster pump and all associated civil and mechanical improvements necessary for the pump installation.~~ 4. Volume 3 – D-1 Booster Pump Station: Installation of the D-1 booster pump, discharge piping, and associated fittings, together with startup, operational testing, and commissioning, may be completed **after** the 365-calendar-day milestone. Other civil and structural improvements at the D-1 Booster Pump Station that are not dependent on the deferred pump and piping installation shall be completed within 365 calendar days.

B. Electrical Work Prior to the 365-Day Milestone: The Contractor shall diligently prosecute electrical, instrumentation, control, telemetry, and SCADA Work concurrently with the Work identified above. To the practical extent possible, all electrical Work that is not dependent upon delivery of long-lead equipment shall be completed within the first three hundred sixty-five (365) calendar days. Such Work shall include, as applicable, installation of conduits, conductors, pull boxes, junction boxes, grounding and bonding systems, equipment pads and supports, building electrical rough-in, and other electrical infrastructure that can reasonably be installed in advance of long-lead equipment.

~~C. Work Following the 365-Day Milestone: Electrical, instrumentation, control, telemetry, and SCADA Work that cannot reasonably be completed within the first three hundred sixty-five (365) calendar days due to the manufacture or delivery of long-lead equipment may be completed following the 365-calendar-day milestone. This may include installation and connection of long-lead electrical and control equipment and associated termination, programming, integration, startup, testing, commissioning, and training. All remaining Work shall be completed within the overall Contract Time of five hundred forty-eight (548) calendar days.~~ C. Work Following the 365-Day Milestone: Electrical, instrumentation, control, telemetry, and SCADA Work that cannot reasonably be completed within the first three hundred sixty-five (365) calendar days due to manufacture or delivery of long-lead equipment may be completed after the milestone. This may include installation and connection of long-lead electrical and control equipment, termination, programming, integration,

startup, testing, commissioning, and training. In addition, the deferred pump and piping installation identified in Paragraphs 2.10.A.3 and 2.10.A.4, placement in service of the pipelines excepted in Paragraphs 2.10.A.1 and 2.10.A.2, excluded from the milestone may be performed after Day 365. All remaining Work shall be completed within the overall Contract Time of five hundred forty-eight (548) calendar days.

D. Long-Lead Equipment and Procurement: The Contractor shall initiate submittals and procurement of long-lead electrical, instrumentation, and control equipment at the earliest practicable time following award of the Contract and shall diligently pursue submittal review, release for manufacture, fabrication, delivery, and installation. Procurement or delivery delays associated with electrical or control equipment shall not constitute justification for delaying civil, structural, mechanical, or other Work that can reasonably proceed independently of such equipment, nor shall such delays relieve the Contractor of the requirement to achieve the 365-calendar-day milestone.

E. ~~The additional Contract Time beyond the 365-calendar-day milestone is provided to accommodate completion of Work reasonably dependent upon long-lead electrical, instrumentation, and control equipment and shall not be construed as additional time for completion of the Work required by Paragraph A.~~ E. Purpose of Additional Contract Time: The additional Contract Time beyond the 365-calendar-day milestone is provided to accommodate completion of Work reasonably dependent upon long-lead electrical, instrumentation, and control equipment, as well as the specifically deferred pump and discharge piping installations, pipeline placement in service, as expressly identified in Paragraph A. No other Work required by Paragraph A is extended beyond the 365-calendar-day milestone.

PART 3 - EXECUTION – NOT USED

END OF SECTION

SECTION 01150

MEASUREMENT AND PAYMENT

PART 1 - APPLICATIONS FOR PAYMENT

1.1 SUMMARY

A. General work included in this Section:
   1. Measurement and Payment.

1.2 GENERAL

A. Measurement and Payment shall be in accordance with Section III of the Special Conditions of Division 0. In the event of conflict between the technical specifications and the Section III of the Special Conditions, Section III shall govern.

B. Submit Applications for Payment to Engineer in accordance with the schedule established by conditions of the Contract and Agreement between Owner and Contractor.

C. Additional requirements specified elsewhere.
   1. Total Bid Price: Agreement.
   2. Progress payments, retainages, and final payment: Conditions of the Contract and Agreement.
   3. Schedule of Values: Section 01370.

1.3 FORMAT AND DATA REQUIRED

A. Submit applications per form included Application for Payment with itemized data typed on 8-1/2 IN x 11 IN white paper continuation sheet.

B. Provide itemized data on continuation sheet.
   1. Format, schedules, line items, and values: Those of the Schedule of Values.

1.4 PREPARATION OF APPLICATION FOR EACH PROGRESS PAYMENT

A. Application form:
   1. Fill in the required information, including that for Change Orders executed prior to the date of submittal application.
   2. Fill in summary of dollar values to agree with the respective totals indicated on the continuation sheets.
   3. Execute certification with the signature of a responsible officer of the Contractor's firm.

B. Continuation Sheets:
   1. Fill in total list of all scheduled component items of work with item number and the scheduled dollar value for each item.
   2. Fill in the dollar value in each column for each scheduled line item when work has been performed or products stored.
   3. List each Change Order executed prior to the date of submission at the end of the continuation sheets.
      a. List by Change Order number and description, as for an original component item of work.

1.5 SUBSTANTIATING DATA FOR PROGRESS PAYMENTS

A. When Owner or Engineer requires substantiating data, Contractor shall submit suitable information, with a cover letter identifying:
   1. Project.
   2. Application number and date.
   3. Detailed list of enclosures.
   4. For stored products:
      a. Item number and identification as shown on application.
      b. Description of specific material.

B. Submit one copy of data and cover letter for each copy of application.

1.6 PREPARATION OF APPLICATION FOR FINAL PAYMENT

A. Fill in application form as specified for progress payments.

1.7 SUBMITTAL PROCEDURE

A. Submit Applications for Payment to Engineer as described in General Conditions.

B. When Engineer finds the application properly completed and correct, he will transmit a Certificate for Payment to Owner, with a copy to Contractor.

PART 2 - PAYMENT FOR BID ITEMS

2.1 SUMMARY

A. The Bid Amounts for Each Bid Item will be used for comparative bid analysis.

B. The Bid Amounts will also form the basis of monthly progress payments. Each Lump Sum bid amount will undergo further breakdown as described in Section 01370, Schedule of Values.

C. Quality of Work to be paid for under any items for which a unit price is fixed in Contract Documents shall be a number, as determined by Owner, of units of work satisfactorily completed in accordance with Contract Documents or as Directed by Owner. Unless otherwise provided, determination of number of units of work completed will be based, so far as practicable, on actual measurement or count within prescribed or ordered limits, and no payment will be made for work done outside of limits.

D. Payment of Work governed by unit prices will be made on the basis of the actual measurements and quantities determined by the Engineer multiplied by the unit price of the Work which is incorporated in or made necessary by the Work.

E. Progress payments on account of Unit Price Work will be based on the number of units completed during the monthly pay period.

F. Bid Items are not intended to be exclusive descriptions of work categories, and the Contractor shall include in its pricing all labor, materials, equipment, overhead, profit, and incidentals necessary to complete the Work as shown on the Drawings and specified in the Contract Documents.

G. Bid Items are established for the purpose of measurement and payment only and are not intended to define or limit the full extent of the Work required by the Contract Documents. Work shown on the Drawings or specified in the Specifications shall be considered included in the appropriate Bid Item, or in Bid Item No. 27 where not specifically measured under another Bid Item.

H. No additional or separate payment will be made for work that is reasonably inferable from the Drawings and Specifications as being required for a complete and operable Project.

I. All elements of the Work shall be encompassed within the sum of all bid items for a complete and working Project as shown on the Drawings and Specifications. No Additional Payment will be made for work shown on the Drawings and Specifications not specifically identified within a bid item description.

J. Compensation for cleaning the trash removal associated with individual bid items shall be included within the price for that bid item.

K. Compensation for excess excavation hauling to disposal site associated with individual bid items shall be included within the price for the bid item.

L. Rock excavation, if any, is to be included with each bid item that contains excavation. No additional payment will be made for rock excavation.

2.2 NON-PAYMENT FOR REJECTED PRODUCTS

A. Payment will not be made for any of the following:
1. Products wasted.
2. Products disposed of in a manner that is not acceptable.
3. Products determined as unacceptable before or after placement.
4. Products not completely unloaded from the transporting vehicle.
5. Products placed beyond the lines and levels of the required Work.
6. Products remaining on hand after completion of the Work.
7. Loading, hauling, and disposing of rejected products, notwithstanding that payment shall be made for excess excavation within individual bid items, where the material is not usable as native fill, properly disposed, and made within the lines and levels of the Work.

2.3 BID ITEM NO. 1 – BONDS AND INSURANCE

A. Measurement and payment shall be on a Lump Sum basis.

B. The Lump Sum bid price shall include full compensation for furnishing and maintaining all required Performance, Payment, and Maintenance Bonds, and all insurance required by the Contract Documents, including premiums and administrative costs.

C. Payment for bonds and insurance will be made upon receipt and acceptance of required bonds, insurance certificates, and endorsements. Payment shall not exceed the actual cost substantiated by invoices, and shall be subject to applicable retainage.

2.4 BID ITEM NO. 2 - MOBILIZATION/DEMOBILIZATION (MAXIMUM AMOUNT 5% OF TOTAL BID PRICE)

A. The lump sum bid for mobilization/demobilization shall not exceed five percent (5%) of the total bid price. Mobilization shall include: moving onto the site of all equipment; submittal and approval of initial project schedule and safety plan; obtaining and paying for all permits by other agencies as applicable; furnishing temporary construction utilities (temporary power, toilets, water, fences, etc.); installing construction signs; temporary buildings and field office trailer(s); and other construction all as required for the proper performance and completion of the work.

B. Demobilization shall include site cleaning and restoration of surfaces within the job site, post-construction meeting, removal of all temporary facilities and equipment from the work area, disconnection of the temporary construction utilities, record drawings, and turnover of Project to the Owner.

C. Contractor shall remove all debris, trash, excess soil, and unused material generated during construction. The contractor shall be responsible and pay for all hauling and applicable disposal costs.

D. Mobilization/Demobilization will be paid in installments as follows
   1. Twenty-five percent (25%) upon issuance of Notice to Proceed and completion of initial mobilization activities (including delivery of major equipment, establishment of field office/temporary facilities, and submittal of initial project schedule and safety plan).
   2. Fifty percent (50%) when the Work is twenty-five percent (25%) complete.
   3. Twenty-five percent (25%) upon Substantial Completion and completion of demobilization activities, including site cleanup and removal of temporary facilities.
   4. Payment shall be subject to applicable retainage.

E. Contractor may apply for payment of demobilization after the overall Project Substantial Completion is achieved and the Project begins to demobilize.

F. The lump sum price shall be full compensation for the preparation and installation or submittal of these materials, and for all labor, equipment, tools and incidentals to complete this item.

2.5 BID ITEM NO. 3 – TRAFFIC CONTROL PLAN PREPARATION AND IMPLEMENTATION

A. Measurement and payment for Traffic Control Plan Preparation and Implementation shall be lump sum. Payment will be made in proportion to the progress of the Work requiring traffic control, as determined by the Engineer.

B. Traffic control shall conform to the California Manual on Uniform Traffic Control Devices (CA MUTCD), applicable permit requirements, and all Owner specifications. Traffic control shall be provided at all locations where construction activities occur within or adjacent to the traveled way or otherwise affect vehicular, bicycle, or pedestrian traffic, including but not limited to County roads, local streets, private access roads, driveways, and other areas where the Work encroaches upon the path of travel. Where work occurs within San Bernardino County right-of-way, traffic control shall also comply with the requirements of the County Encroachment Permit and/or Excavation Permits and applicable County

standards. The Contractor shall prepare and submit a Traffic Control Plan (TCP) for review and approval prior to beginning work in any area requiring traffic control.

C. The lump sum price shall include furnishing all labor, materials, equipment, and incidentals necessary to prepare, implement, maintain, adjust, relocate, and remove the approved Traffic Control Plan. Work shall include, but is not limited to, preparation and submittal of Traffic Control Plans, all required signage and temporary traffic control devices, flaggers and flagging operations, temporary signals, arrow boards, and portable changeable message signs, barricades, cones, drums, delineators, and channelizing devices, K-rail concrete barriers and associated anchorage where required, temporary pavement markings and striping where required, maintenance and adjustment of traffic control throughout construction, removal of all temporary traffic control devices, and restoration of surfaces disturbed by traffic control operations. The Contractor shall provide all traffic control necessary to safely perform the Work, whether or not specifically shown on the Drawings, and as required by applicable standards, permits, or field conditions. Traffic control required for the Contractor's convenience or construction operations shall be included in this bid item and shall not be paid for separately.

D. The lump sum price shall include all coordination necessary for implementation of traffic control, including coordination with agencies and service providers as required, including but not limited to: County agencies, Police and Fire Departments, School Districts, Utility companies, Postal service and waste collection providers, and adjacent property owners when access restrictions occur. This includes preparation and distribution of any required public notifications or advance notice of lane closures or road restrictions required by permits or applicable standards.

E. The lump sum price shall include all traffic control required for the duration of the project, including initial installation, relocation, adjustment, maintenance, replacement, and removal of traffic control devices as construction operations progress or shift locations. No additional compensation will be provided for moving, resetting, or modifying traffic control devices required to accommodate the Contractor's operations.

2.6 BID ITEM NO. 4 – STORM WATER POLLUTION CONTROL

A. Measurement and Payment by Lump Sum Paid on a Percent of Work Complete.
B. Payment Basis Lump sum price for "Storm Water Pollution Control" includes full compensation for all labor, materials, equipment, services, and incidentals to comply with Section 01503 and applicable permits. This includes all Contractor services necessary to support obtaining and maintaining CGP coverage (Order WQ

2022-0057-DWQ), including preparation and management of NOI/WDID and SMARTS submittals (SWPPP upload, amendments, REAPs, reports, and NOT), and coordination with the Agency's Legally Responsible Person (LRP) or Duly Authorized Representative (DAR) for required electronic certification and submittal; preparation, certification, implementation, and updates of the SWPPP by a Qualified SWPPP Developer (QSD); retention of qualified QSD/QSP consultant(s) for inspections, monitoring, sampling, reporting, and LRP coordination; compliance with Flood District Permit No. FCCON-2025-00075 and CDFW LSAA requirements; installation, maintenance, inspection, repair, and removal of BMPs for erosion/sediment control, non-storm water pollution prevention, dewatering, waste handling, and pollutant discharge prevention; required inspections, training, preconstruction meeting, on-site records, reporting, and final stabilization/cleanup; and all permitting fees, QSD/QSP services, and corrective measures directed by the Engineer or regulatory agencies. No separate payment for components; all work included in lump sum unless otherwise specified.

C. The lump sum price shall include all coordination necessary for implementation of traffic control and work within public rights-of-way, including coordination with agencies and service providers as required, including but not limited to: San Bernardino County Department of Public Works, County Road Inspector, Police and Fire Departments, School Districts, Utility companies, Postal service and waste collection providers, and adjacent property owners when access restrictions occur. This includes preparation and distribution of any required public notifications or advance notice of lane closures, road restrictions, or work within County right-of-way required by permits or applicable standards. For work subject to San Bernardino County Excavation Permit No. TREXC-2025-00579, and CoSB Special Districts Permit the lump sum price shall include required County inspector notification, public notification, maintaining required permit documents and traffic control plans on site, coordination with County field personnel, and adjustment of traffic control measures as required by the County permit, CA MUTCD, actual field conditions, or direction from the County Inspector or Engineer.

2.7 BID ITEM NO. 5 - ADEQUATE SHEETING, SHORING, AND BRACING, OR EQUIVALENT METHOD, FOR THE PROTECTION OF LIFE OR LIMB, CONFORMING TO APPLICABLE CALIFORNIA SAFETY ORDERS FOR ALL BID ITEMS, INCLUDING DEDUCTIVE ALTERNATIVES.

A. Measurement and Payment by Lump Sum Paid on a Percent of Work Complete.

B. Adequate Sheeting, Shoring, and Bracing shall include full compensation for furnishing all labor, materials, tools and equipment and for doing all the work required for providing necessary shoring and bracing per State of California Labor Code 6705 – Protection of Workers in Excavations.

C. As required by Section 6705 of the California Labor Code and in addition thereto, whenever work under the Contract involves the excavation of any trench or trenches 5 feet or more in depth, the Contractor shall submit for acceptance by the Owner or by a registered civil or structural engineer, employed by the Owner, to whom authority to accept has been delegated, in advance of excavation, a detailed plan showing the design of shoring, bracing, sloping, or other provisions to be made for work protection from the hazard of caving ground during the excavation, of such trench or trenches.

D. If such plan varies from the shoring system standards established by the Construction Safety Orders of the Division of Industrial Safety, the plan shall be prepared by a registered civil or structural engineer employed by the Contractor, and all costs therefore shall be included in the price named in the Contract for completion of the Work as set forth in the Contract Documents.

E. Nothing in this Section shall be deemed to allow the use of a shoring, sloping, or other protective system less effective than that required by the Construction Safety Orders.

F. Nothing in this Section shall be construed to impose tort liability on the Owner, or any of their officers, agents, representatives, or employees.

2.8 BID ITEM NO. 6 – Zone B 6-inch Transmission Pipeline

A. Measurement and Payment shall be by Unit Price Per Linear Foot installed.

B. Work shall conform to these contract plans and specifications.

C. The footage of pipe to be paid for shall be the number of linear feet of pipe installed in-place complete, and approved. The footage of pipe shall be measured along the centerline of the pipe from one end, or connection to existing pipe, to the other end, or connection to new pipe, whichever is applicable. The unit price per linear foot shall include full compensation for furnishing and installing all **6-inch DR 14 AWWA C900 PVC** pipe and associated ductile iron fittings, tees, elbows, couplings, reducers; joint restraints, thrust blocks, connections, locating wire, service connections, and all appurtenances required to complete the pipeline installation regardless of the number, type, or configuration required. The unit price shall include all labor, materials and equipment required for potholing, trenching, saw cutting, paving demolition and disposal, dewatering, excavation and backfill, sand bedding and backfill in the pipe zone, backfill above the pipe zone, compaction, and all trench plating. Excavation unit prices exclude shoring/bracing, which shall be paid under bid item 5.

D. Refer to Volume 1, sheets C205-C214 for pipeline details.

E. The Contractor’s bid price shall include all labor, equipment, and materials necessary to verify the location of existing utilities as required in Section 310523 of the Technical Specifications, including Utility Service Alert notifications, coordination with utility owners, and potholing required to expose and confirm existing utilities prior to installation of new pipe, fittings, and associated appurtenances.

F. This bid item does not include the Zone B Flush Out Station (covered in bid item 11), PRV Station (covered in bid item 19), CAV assembly (covered in bid item 20), Blow Off Assembly (covered in bid item 21), and Trench Cutoff Walls (covered in bid item 22).

G. The Contractors bid price shall include all costs for asbestos cement pipe removal, handling, and disposal for work at locations where the pipeline installation requires connecting to existing asbestos cement pipe. The contractor shall remove, handle, and dispose of asbestos cement pipe as outlined in Section 028213.19 of these contract documents.

H. The Contractors bid price shall include all costs to perform and complete the work within the easements and work zone buffers shown within the drawings.

I. The Contractor's bid price shall include all costs necessary to perform and complete the Work in compliance with the environmental requirements of the Contract Documents and all requirements applicable to the Contractor's Work under the California Department of Fish and Wildlife Streambed Alteration Agreement No. EPIMS-SBR-64495-R6, *Pipes Wash and Associated Streams*, the Western Joshua Tree Incidental Take Permit, and the San Bernardino County Flood Control District Permit, including required coordination, scheduling, access restrictions, work limits, and temporary protective measures. Prior to mobilization or commencement of any construction activity at the site, the Contractor shall attend a preconstruction biological coordination meeting with BDVWA and the Project Biologist to review the Contractor's responsibilities and applicable permit requirements. An overview of the Streambed Alteration Permit requirements is presented within Section II of the Special Conditions. The full document is included by reference in Attachment D.

2.9 BID ITEM NO. 7 – Warren Vista 6-inch Pipeline

A. Measurement and Payment shall be by Unit Price Per Linear Foot installed.

B. Work shall conform to these contract plans and specifications.

C. The footage of pipe to be paid for shall be the number of linear feet of pipe installed in-place complete, and approved. The footage of pipe shall be measured along the centerline of the pipe from one end, or connection to existing pipe, to the other end, or connection to new pipe, whichever is applicable. The unit price per linear foot shall include full compensation for furnishing and installing all **6-inch ~~DR 14~~ DR 18 AWWA C900 PVC** pipe and associated ductile iron fittings, tees, elbows, couplings, reducers; joint restraints, thrust blocks, connections, locating wire, and all appurtenances required to complete the pipeline installation regardless of the number, type, or configuration required. The unit price shall include all labor, materials and equipment required for potholing, trenching, saw cutting, paving demolition and disposal, dewatering, excavation and backfill, sand bedding and backfill in the pipe zone, backfill above the pipe zone, compaction, and all trench plating. Excavation unit prices exclude shoring/bracing, which shall be paid under bid item 5.

D. Refer to Volume 1, sheets C301-C304 for pipeline details.

E. The Contractor's bid price shall include all labor, equipment, and materials necessary to verify the location of existing utilities as required in Section 310523 of the Technical Specifications, including Utility Service Alert notifications, coordination with utility owners, and potholing required to expose and confirm existing utilities prior to installation of new pipe, fittings, and associated appurtenances.

F. This bid item does not include CAVs (covered in bid item 20) and Fire Hydrants (covered in bid item 23).

G. The Contractors bid price shall include all costs for asbestos cement pipe removal, handling, and disposal for work at locations where the pipeline installation requires connecting to existing asbestos cement pipe. The contractor shall remove, handle, and dispose of asbestos cement pipe as outlined in Section 028213.19 of these contract documents.

H. The Contractors bid price shall include all costs to perform and complete the work within the easements and shown within the drawings.

I. The Contractors bid price shall include all costs to perform and complete the work while meeting the environmental requirements specified within the Special Provisions and as required by the WJT Incidental Take Permit.

2.10 BID ITEM NO. 8 – Winters Road (3) 6-inch Pipelines Common Trench

A. Measurement and Payment shall be by Unit Price per Linear Foot (LF) of common trench installation.

B. Work shall conform to the Contract Plans and Specifications.

C. The footage to be paid for shall be the number of linear feet of common trench run in which three (3) 6-inch ~~**DR 14**~~ AWWA C900 PVC pipelines are installed complete and approved. The LF quantity shall be measured once along the alignment (centerline of trench / pipeline baseline as shown) from one end connection to the other, or from connection to existing piping to connection to new piping, whichever is applicable. The measured LF shall not be multiplied by three (3) for the number of pipelines installed within the common trench. The unit price per linear foot shall include full compensation for furnishing and installing associated ductile iron fittings, tees, elbows, couplings, reducers; joint restraints, thrust blocks, connections, locating wire, and all appurtenances required to complete the pipeline installation regardless of the number, type, or configuration required. The unit price shall include all labor, materials, and equipment required for trenching, saw cutting, pavement demolition and disposal, dewatering, excavation and backfill, bedding and pipe zone materials, backfill above the pipe zone, compaction, and trench plating. Excavation unit prices exclude shoring/bracing, which shall be paid under bid item 5.

D. Refer to Volume 1, Sheets C401–C403 for pipeline details.

E. The Contractor's bid price shall include all labor, equipment, and materials necessary to verify the location of existing utilities as required in Section 310523 of the Technical Specifications, including Utility Service Alert notifications, coordination with utility owners, and potholing required to expose and confirm existing utilities prior to installation of new pipe, fittings, and associated appurtenances.

F. The Contractors bid price shall include all costs to perform and complete the work within the easements and shown within the drawings.

G. The Contractors bid price shall include all costs to perform and complete the work while meeting the environmental requirements specified within the Special Provisions and as required by the WJT Incidental Take Permit.

2.11 BID ITEM NO. 9 – Rainbow Drive 6-inch Pipeline

A. Measurement and Payment shall be by Unit Price Per Linear Foot installed.

B. Work shall conform to these contract plans and specifications.

C. The footage of pipe to be paid for shall be the number of linear feet of pipe installed in-place complete, and approved. The footage of pipe shall be measured along the centerline of the pipe from one end, or connection to existing pipe, to the other end, or connection to new pipe, whichever is applicable. The unit price per linear foot shall include full compensation for furnishing and installing all **6-inch ~~DR 14~~ DR 18 AWWA C900 PVC** pipe and associated ductile iron fittings, tees, elbows, couplings, reducers; joint restraints, thrust blocks, connections, locating wire, and all appurtenances required to complete the pipeline installation regardless of the number, type, or configuration required. The unit price shall include all labor, materials and equipment required for trenching, saw cutting, paving demolition and disposal, dewatering, excavation and backfill, sand bedding and backfill in the pipe zone, backfill above the pipe zone, compaction, and all trench plating. Excavation unit prices exclude shoring/bracing, which shall be paid under bid item 5.

D. Refer to Volume 1, sheets C501-C502 for pipeline details.

E. The Contractor's bid price shall include all labor, equipment, and materials necessary to verify the location of existing utilities as required in Section 310523 of the Technical Specifications, including Utility Service Alert notifications, coordination with utility owners, and potholing required to expose and confirm existing utilities prior to installation of new pipe, fittings, and associated appurtenances.

F. This bid item does not include Fire Hydrants (covered in bid item 23).

G. The Contractors bid price shall include all costs for asbestos cement pipe removal, handling, and disposal for work at locations where the pipeline installation requires connecting to existing asbestos cement pipe. The contractor shall remove, handle, and dispose of asbestos cement pipe as outlined in Section 028213.19 of these contract documents.

H. The Contractors bid price shall include all costs to perform and complete the work within the easements and shown within the drawings.

H. The Contractors bid price shall include all costs to perform and complete the work while meeting the environmental requirements specified within the Special Provisions and as required by the WJT Incidental Take Permit.

2.12 BID ITEM NO. 10 – Lanes End 6-inch Pipeline

A. Measurement and Payment shall be by Unit Price Per Linear Foot installed.

B. Work shall conform to these contract plans and specifications.

C. The footage of pipe to be paid for shall be the number of linear feet of pipe installed in-place complete, and approved. The footage of pipe shall be measured along the centerline of the pipe from one end, or connection to existing pipe, to the other end, or connection to new pipe, whichever is applicable. The unit price per linear foot shall include full compensation for furnishing and installing all **6-inch ~~DR 14~~ DR 18 AWWA C900 PVC** pipe and associated ductile iron fittings, tees, elbows, couplings, reducers; joint restraints, thrust blocks, connections, locating wire, and all appurtenances required to complete the pipeline installation regardless of the number, type, or configuration required. The unit price shall include all labor, materials and equipment required for trenching, saw cutting, paving demolition and disposal, dewatering, excavation and backfill, sand bedding and backfill in the pipe zone, backfill above the pipe zone, compaction, and all trench plating. Excavation unit prices exclude shoring/bracing, which shall be paid under bid item 5.

D. Refer to Volume 1, sheet C601 for pipeline details.

E. The Contractor's bid price shall include all labor, equipment, and materials necessary to verify the location of existing utilities as required in Section 310523 of the Technical Specifications, including Utility Service Alert notifications, coordination with utility owners, and potholing required to expose and confirm existing utilities prior to installation of new pipe, fittings, and associated appurtenances.

F. This bid item does not include Fire Hydrants (covered in bid item 23).

G. The Contractors bid price shall include all costs for asbestos cement pipe removal, handling, and disposal for work at locations where the pipeline installation requires connecting to existing asbestos cement pipe. The contractor shall remove, handle, and dispose of asbestos cement pipe as outlined in Section 028213.19 of these contract documents.

H. The Contractors bid price shall include all costs to perform and complete the work within the easements and shown within the drawings.

I. The Contractors bid price shall include all costs to perform and complete the work while meeting the environmental requirements specified within the Special Provisions and as required by the WJT Incidental Take Permit.

2.13 BID ITEM NO. 11 – Zone B Flush Out Station

A. Measurement and Payment by Lump Sum Paid of Full Compensation for Each assembly.

B. The Zone B Flush Out Station shall be measured by a complete and in-place assembly Per Volume 1 Detail 2/C705 as shown on the drawings. The contractor is responsible for coordinating final location with owner prior to installation and shall coordinate all installation with final road restoration work.

C. The payment for each Flush Out Station assembly shall include full compensation for furnishing all labor, material, tools, and equipment required to install the Flush Out Station assembly complete and in-place from the main pipeline to the Flush Out Station location. This shall include, but not limited to, pipe, pipe saddle, fittings, thrust blocks, mechanical restraints; pre-cast concrete for vault; magnetic flow meters, pressure reducing valve, and any appurtenances and incidentals necessary to complete the Flush Out Station assembly. This item includes box adjustments to grade. The standpipe associated with this flushout shall be incidental to this bid item and is not counted under Bid Item 21.

D. The Contractors bid price shall include all costs to perform and complete the work within the easements and shown within the drawings.

E. The Contractors bid price shall include all costs to perform and complete the work while meeting the environmental requirements specified within the Special Provisions and as required by the WJT Incidental Take Permit.

2.14 BID ITEM NO. 12 – Reche Road and D-1 Pumpstation 8-inch Pipeline

A. Measurement and Payment shall be by Unit Price Per Linear Foot installed.

B. Work shall conform to these contract plans and specifications.

C. The footage of pipe to be paid for shall be the number of linear feet of pipe installed in-place complete, and approved. The footage of pipe shall be measured along the centerline of the pipe from one end, or connection to existing pipe, to the other end, or connection to new pipe, whichever is applicable. The unit price per linear foot shall include full compensation for furnishing and installing all **8-inch DR 18 AWWA C900 PVC** pipe and associated ductile iron fittings, tees, elbows, couplings, reducers; joint restraints, thrust blocks, connections, locating wire, and all appurtenances required to complete the pipeline installation regardless of the number, type, or configuration required. The unit price shall include all labor, materials and equipment required for trenching, saw cutting, paving demolition and disposal, dewatering, excavation and backfill, sand bedding and backfill in the pipe zone, backfill above the pipe zone, compaction, all trench plating, temporary cold patch asphalt and hot mix asphalt pavement restoration. Excavation unit prices exclude shoring/bracing, which shall be paid under bid item 5.

D. Refer to Volume 2, sheet C-01 for pipeline details.

E. The Contractor’s bid price shall include all labor, equipment, and materials necessary to verify the location of existing utilities as required in Section 310523 of the Technical Specifications, including Utility Service Alert notifications, coordination with utility owners, and potholing required to expose and confirm existing utilities prior to installation of new pipe, fittings, and associated appurtenances.

F. This bid item does not include the Blow Off Assembly (covered in bid item 21).

G. The Contractors bid price shall include all costs for asbestos cement pipe removal, handling, and disposal for work at locations where the pipeline installation requires connecting to existing asbestos cement pipe. The contractor shall remove, handle, and dispose of asbestos cement pipe as outlined in Section 028213.19 of these contract documents.

H. The Contractors bid price shall include all costs to perform and complete the work within the easements and shown within the drawings.

I. The Contractors bid price shall include all costs to perform and complete the work while meeting the environmental requirements specified within the Special Provisions and as required by the WJT Incidental Take Permit.

J. The Contractor's bid price shall include all labor, materials, equipment, and incidentals necessary to perform the work within San Bernardino County right-of-way in compliance with the County Excavation Permit and applicable County requirements. This includes protection of existing pavement, shoulders, drainage facilities, signs, striping, monuments, utilities, and other existing improvements; restoration of disturbed shoulder and roadside areas; compaction and grading of trench backfill; removal of loose material from paved surfaces; and repair of pavement, shoulder, drainage, or roadway damage caused by Contractor operations to the satisfaction of San Bernardino County Department of Public Works. No separate payment will be made for such protection, coordination, cleanup, or restoration.

2.16 BID ITEM NO. 13 – Stearman Road ~~6-inch~~ 8-inch Pipeline

A. Measurement and Payment shall be by Unit Price Per Linear Foot installed.

B. Work shall conform to these contract plans and specifications.

C. The footage of pipe to be paid for shall be the number of linear feet of pipe installed in-place complete, and approved. The footage of pipe shall be measured along the centerline of the pipe from one end, or connection to existing pipe, to the other end, or connection to new pipe, whichever is applicable. The unit price per linear foot shall include full compensation for furnishing and installing all ~~**6-inch**~~ **8-inch DR 18 AWWA C900 PVC** pipe and associated ductile iron fittings, tees, elbows, couplings, reducers; joint restraints, thrust blocks, connections, locating wire, and all appurtenances required to complete the pipeline installation regardless of the number, type, or configuration required. The unit price shall include all labor, materials and equipment required for trenching, saw cutting, paving demolition and disposal, dewatering, excavation and backfill, sand bedding and backfill in the pipe zone, backfill above the pipe zone, compaction, and all trench plating. Excavation unit prices exclude shoring/bracing, which shall be paid under bid item 5.

D. Refer to Volume 2, sheet C-02 for pipeline details.

E. The Contractor's bid price shall include all labor, equipment, and materials necessary to verify the location of existing utilities as required in Section 310523 of the Technical Specifications, including Utility Service Alert notifications, coordination with utility owners, and potholing required to expose and confirm existing utilities prior to installation of new pipe, fittings, and associated appurtenances.

F. This bid item does not include CAVs (covered in bid item 20) and Fire Hydrants (covered in bid item 23).

G. The Contractors bid price shall include all costs to perform and complete the work within the easements and shown within the drawings.

H. The Contractors bid price shall include all costs to perform and complete the work while meeting the environmental requirements specified within the Special Provisions and as required by the WJT Incidental Take Permit.

2.17 BID ITEM NO. 14 – Osgood Avenue 6-inch Pipeline

A. Measurement and Payment shall be by Unit Price Per Linear Foot installed.

B. Work shall conform to these contract plans and specifications.

C. The footage of pipe to be paid for shall be the number of linear feet of pipe installed in-place complete, and approved. The footage of pipe shall be measured along the centerline of the pipe from one end, or connection to existing pipe, to the other end, or connection to new pipe, whichever is applicable. The unit price per linear foot shall include full compensation for furnishing and installing all **6-inch DR 18 AWWA C900 PVC** pipe and associated ductile iron fittings, tees, elbows, couplings, reducers; joint restraints, thrust blocks, connections, locating wire, and all appurtenances required to complete the pipeline installation regardless of the number, type, or configuration required The unit price shall include all labor, materials and equipment required for trenching, saw cutting, paving demolition and disposal, dewatering, excavation and backfill, sand bedding and backfill in the pipe zone, backfill above the pipe zone, compaction, and all trench plating. Excavation unit prices exclude shoring/bracing, which shall be paid under bid item 5.

D. Refer to Volume 2, sheet C-03 & C-04 for pipeline details.

E. The Contractor's bid price shall include all labor, equipment, and materials necessary to verify the location of existing utilities as required in Section 310523 of the Technical Specifications, including Utility Service Alert notifications, coordination with utility owners, and potholing required to expose and confirm existing utilities prior to installation of new pipe, fittings, and associated appurtenances.

F. This bid item does not include CAVs (covered in bid item 20).

G. The Contractors bid price shall include all costs for asbestos cement pipe removal, handling, and disposal for work at locations where the pipeline installation requires connecting to existing asbestos cement pipe. The contractor shall remove, handle, and dispose of asbestos cement pipe as outlined in Section 028213.19 of these contract documents.

H. The Contractors bid price shall include all costs to perform and complete the work within the easements and shown within the drawings.

I. The Contractors bid price shall include all costs to perform and complete the work while meeting the environmental requirements specified within the Special Provisions and as required by the WJT Incidental Take Permit.

2.19 BID ITEM NO. 15 – Reche Road 6-inch Pipeline

A. Measurement and Payment shall be by Unit Price Per Linear Foot installed.

B. Work shall conform to these contract plans and specifications.

C. The footage of pipe to be paid for shall be the number of linear feet of pipe installed in-place complete, and approved. The footage of pipe shall be measured along the centerline of the pipe from one end, or connection to existing pipe, to the other end, or connection to new pipe, whichever is applicable. The unit price per linear foot shall include full compensation for furnishing and installing all **6-inch DR 18 AWWA C900 PVC** pipe and associated ductile iron fittings, tees, elbows, couplings, reducers; joint restraints, thrust blocks, connections, locating wire, and all appurtenances required to complete the pipeline installation regardless of the number, type, or configuration required. The unit price shall include all labor, materials and equipment required for trenching, saw cutting, paving demolition and disposal, dewatering, excavation and backfill, sand bedding and backfill in the pipe zone, backfill above the pipe zone, compaction, and all trench plating. Excavation unit prices exclude shoring/bracing, which shall be paid under bid item 5.

D. Refer to Volume 2, sheet C-05 for pipeline details.

E. The Contractor's bid price shall include all labor, equipment, and materials necessary to verify the location of existing utilities as required in Section 310523 of the Technical Specifications, including Utility Service Alert notifications, coordination with utility owners, and potholing required to expose and confirm existing utilities prior to installation of new pipe, fittings, and associated appurtenances.

F. This bid item does not include Fire Hydrants (covered in bid item 23).

G. The Contractors bid price shall include all costs for asbestos cement pipe removal, handling, and disposal for work at locations where the pipeline installation requires connecting to existing asbestos cement pipe. The contractor shall remove, handle, and dispose of asbestos cement pipe as outlined in Section 028213.19 of these contract documents.

H. The Contractors bid price shall include all costs to perform and complete the work within the easements and shown within the drawings.

I. The Contractors bid price shall include all costs to perform and complete the work while meeting the environmental requirements specified within the Special Provisions and as required by the WJT Incidental Take Permit.

J. The Contractor's bid price shall include all labor, materials, equipment, and incidentals necessary to perform the work within San Bernardino County right-of-way in compliance with the County Excavation Permit and applicable County requirements. This includes protection of existing pavement, shoulders, drainage facilities, signs, striping, monuments, utilities, and other existing improvements; restoration of disturbed shoulder

and roadside areas; compaction and grading of trench backfill; removal of loose material from paved surfaces; and repair of pavement, shoulder, drainage, or roadway damage caused by Contractor operations to the satisfaction of San Bernardino County Department of Public Works. No separate payment will be made for such protection, coordination, cleanup, or restoration.

2.20 BID ITEM NO. 16 – Alta Avenue 6-inch Pipeline

A. Measurement and Payment shall be by Unit Price Per Linear Foot installed.

B. Work shall conform to these contract plans and specifications.

C. The footage of pipe to be paid for shall be the number of linear feet of pipe installed in-place complete, and approved. The footage of pipe shall be measured along the centerline of the pipe from one end, or connection to existing pipe, to the other end, or connection to new pipe, whichever is applicable. The unit price per linear foot shall include full compensation for furnishing and installing all **6-inch DR 18 AWWA C900 PVC** pipe and associated ductile iron fittings, tees, elbows, couplings, reducers; joint restraints, thrust blocks, connections, locating wire, and all appurtenances required to complete the pipeline installation regardless of the number, type, or configuration required. The unit price shall include all labor, materials and equipment required for trenching, saw cutting, paving demolition and disposal, dewatering, excavation and backfill, sand bedding and backfill in the pipe zone, backfill above the pipe zone, compaction, and all trench plating. Excavation unit prices exclude shoring/bracing, which shall be paid under bid item 5.

D. Refer to Volume 2, sheets C-06, C-07, C-08 and C-09 for pipeline details.

E. The Contractor's bid price shall include all labor, equipment, and materials necessary to verify the location of existing utilities as required in Section 310523 of the Technical Specifications, including Utility Service Alert notifications, coordination with utility owners, and potholing required to expose and confirm existing utilities prior to installation of new pipe, fittings, and associated appurtenances.

F. This bid item does not include the PRV Station (covered in bid item 19), CAVs (covered in bid item 20), the Blow Off Assembly (covered in bid item 21), and Fire Hydrants (covered in bid item 23).

G. The Contractors bid price shall include all costs for asbestos cement pipe removal, handling, and disposal for work at locations where the pipeline installation requires connecting to existing asbestos cement pipe. The contractor shall remove, handle, and dispose of asbestos cement pipe as outlined in Section 028213.19 of these contract documents.

H. The Contractors bid price shall include all costs to perform and complete the work within the easements and shown within the drawings.

I. The Contractors bid price shall include all costs to perform and complete the work while meeting the environmental requirements specified within the Special Provisions and as required by the WJT Incidental Take Permit.

2.21 BID ITEM NO. 17 – North Kuna Avenue 6-inch Pipeline

A. Measurement and Payment shall be by Unit Price Per Linear Foot installed.

B. Work shall conform to these contract plans and specifications.

C. The footage of pipe to be paid for shall be the number of linear feet of pipe installed in-place complete, and approved. The footage of pipe shall be measured along the centerline of the pipe from one end, or connection to existing pipe, to the other end, or connection to new pipe, whichever is applicable. The unit price per linear foot shall include full compensation for furnishing and installing all **6-inch DR 18 AWWA C900 PVC** pipe and associated ductile iron fittings, tees, elbows, couplings, reducers; joint restraints, thrust blocks, connections, locating wire, and all appurtenances required to complete the pipeline installation regardless of the number, type, or configuration required. The unit price shall include all labor, materials and equipment required for trenching, saw cutting, paving demolition and disposal, dewatering, excavation and backfill, sand bedding and backfill in the pipe zone, backfill above the pipe zone, compaction, and all trench plating. Excavation unit prices exclude shoring/bracing, which shall be paid under bid item 5.

D. Refer to Volume 2, sheets C-10, C-11, and C-12 for pipeline details.

E. The Contractor's bid price shall include all labor, equipment, and materials necessary to verify the location of existing utilities as required in Section 310523 of the Technical Specifications, including Utility Service Alert notifications, coordination with utility owners, and potholing required to expose and confirm existing utilities prior to installation of new pipe, fittings, and associated appurtenances.

F. This bid item does not include the PRV Station (covered in bid item 19), CAVs (covered in bid item 20), and Fire Hydrants (covered in bid item 23).

G. The Contractors bid price shall include all costs for asbestos cement pipe removal, handling, and disposal for work at locations where the pipeline installation requires connecting to existing asbestos cement pipe. The contractor shall remove, handle, and dispose of asbestos cement pipe as outlined in Section 028213.19 of these contract documents.

H. The Contractors bid price shall include all costs to perform and complete the work within the easements and shown within the drawings.

I. The Contractors bid price shall include all costs to perform and complete the work while meeting the environmental requirements specified within the Special Provisions and as required by the WJT Incidental Take Permit.

2.22 BID ITEM NO. 18 – Yucca Mesa Road Interties

A. Measurement and Payment by Lump Sum Paid of Full Compensation for Each assembly, (2) two assemblies in total.

B. The Yucca Mesa Road Interties shall be measured by a complete and in-place installation per Volume 2 Sheet C-13 Details 1 and 2. The contractor is responsible for coordinating final location with owner prior to installation and shall coordinate all installation with final road restoration work.

C. The payment for each Yucca Mesa Road Intertie shall include full compensation for furnishing all labor, material, tools, and equipment required to install the Interties complete and in-place from the main pipeline to the Intertie location. This shall include, but not limited to, pipe, fittings, restraints, adapters, thrust blocks, valves, and any appurtenances and incidentals necessary to complete the Interties.

D. The Contractor's bid price shall include all labor, equipment, and materials necessary to verify the location of existing utilities as required in Section 310523 of the Technical Specifications, including Utility Service Alert notifications, coordination with utility owners, and potholing required to expose and confirm existing utilities prior to installation of new pipe, fittings, and associated appurtenances.

E. The Contractors bid price shall include all costs for asbestos cement pipe removal, handling, and disposal for work at locations where the pipeline installation requires connecting to existing asbestos cement pipe. The contractor shall remove, handle, and dispose of asbestos cement pipe as outlined in Section 028213.19 of these contract documents.

F. This bid item does not include the PRV Station (covered in bid item 19).

G. The Contractors bid price shall include all costs to perform and complete the work within the easements and shown within the drawings.

H. The Contractors bid price shall include all costs to perform and complete the work while meeting the environmental requirements specified within the Special Provisions and as required by the WJT Incidental Take Permit.

2.23 BID ITEM NO. 19 – PRV Station

A. Measurement and Payment by Lump Sum Paid of Full Compensation for Each assembly.

B. The PRV Station assembly shall be measured by a complete and in-place assembly as shown in Volume 2 Details 1, 2, and 3 on sheet C-23 and as shown in Volume 1 on sheet C708. The contractor is responsible for coordinating final location with owner prior to installation and shall coordinate all installation with final road restoration work.

C. The payment for each PRV Station assembly shall include full compensation for furnishing all labor, material, tools, and equipment required to install the PRV Station assembly complete and in-place from the main pipeline to the PRV Station location. This shall include, but not limited to, site piping to adjacent mainline, ductile iron pipe fittings, pipe saddle, fittings, restraints including bolts and washers; valves, and any appurtenances and incidentals necessary to complete the PRV Station assembly. This item includes box adjustments to grade. This bid item also includes flow meter stations as indicated on each PRV station site plan. This bid item does not include Combination Air Valve assemblies.

D. The Contractors bid price shall include all costs to perform and complete the work within the easements and shown within the drawings.

E. The Contractors bid price shall include all costs to perform and complete the work while meeting the environmental requirements specified within the Special Provisions and as required by the WJT Incidental Take Permit.

2.24 BID ITEM NO. 20 – Combination Air Valve

A. Measurement and Payment by Lump Sum Paid of Full Compensation for Each assembly.

B. The combination air valve (CAV) assembly shall be measured by a complete and in-place assembly Per Volume 1 Detail 1 Sheet C703 and Per Volume 2 Detail 4 Sheet C-16; as shown on the drawings. The contractor is responsible for coordinating the final location with the owner prior to installation.

C. The payment for the CAV assembly shall include full compensation for furnishing all labor, material, tools, and equipment required to install the CAV assembly complete and in place from the main pipeline to the valve, to the setting of the foundation. This shall include, but not limited to, valves; enclosure; pipe, pipe saddle, fittings, restraints including bolts and washers; tracer wire; 10-mil polyethylene wrap; excavation and backfill; utility marker, and any appurtenances and incidentals necessary to complete the CAV assembly. This item includes box adjustments to grade.

D. The Contractors bid price shall include all costs to perform and complete the work within the easements and shown within the drawings.

E. The Contractors bid price shall include all costs to perform and complete the work while meeting the environmental requirements specified within the Special Provisions and as required by the WJT Incidental Take Permit.

2.25 BID ITEM NO. 21 – Blow Off

A. Measurement and Payment by Lump Sum of Full Compensation for Each assembly.

B. The blow-off assembly shall be measured by a complete and in-place assembly Per Volume 1 Detail 2 Sheet C703 and Per Volume 2 Detail 2 Sheet C-15: as shown on the drawings. The contractor is responsible for coordinating final location with the owner prior to installation.

C. The payment for the blow-off assembly shall include full compensation for furnishing all labor, material, tools, and equipment required to install the blow-off assembly complete and in place from the new waterline to the setting of the per-cast box. This shall include, but not limited to, valves; pre-cast traffic box and lid; pipe, pipe saddle, flushing hydrant connection, fittings, restraints including bolts and washers; tracer wire; concrete; valve boxes and covers, 10-mil polyethylene wrap; excavation and backfill; thrust blocks, and any appurtenances and incidentals necessary to complete the blow-off. This item includes box adjustments to grade.

D. This bid does not include the permanent pavement replacement that will be paid under separate bid items.

E. The Contractors bid price shall include all costs to perform and complete the work within the easements and shown within the drawings.

F. The Contractors bid price shall include all costs to perform and complete the work while meeting the environmental requirements specified within the Special Provisions and as required by the WJT Incidental Take Permit.

2.26 BID ITEM NO. 22 – Trench Cutoff Wall

A. Measurement and Payment by Lump Sum of Full Compensation for Each assembly.

B. The Trench Cutoff Wall Assembly shall be measured by a complete and in-place assembly Per Volume 1 Detail 1Sheet C704 as shown on the drawings. The contractor is responsible for coordinating final location with owner prior to installation.

C. The payment for each Trench Cutoff Wall assembly shall include full compensation for furnishing all labor, material, tools, and equipment required to install the Trench Cutoff Wall assembly complete and in-place from the main pipeline to the Trench Cutoff Wall location. This shall include, but not limited to, concrete, plywood (for casting a mold), and any appurtenances and incidentals necessary to complete the Trench Cutoff Wall assembly. This item includes box adjustments to grade.

D. The Contractors bid price shall include all costs to perform and complete the work within the easements and shown within the drawings.

E. The Contractors bid price shall include all costs to perform and complete the work while meeting the environmental requirements specified within the Special Provisions and as required by the WJT Incidental Take Permit.

2.27 BID ITEM NO. 23 – Fire Hydrant

A. Measurement and Payment by Lump Sum of Full Compensation for Each assembly regardless of connection size.

B. The Fire Hydrant assembly shall be measured by a complete and in-place assembly Per Volume 1 Detail 5 Sheet C703 and Per Volume 2 Detail 3 Sheet C-16; as shown on the drawings. Contractor is responsible for coordinating final location with owner prior to installation and shall coordinate all installation with final road restoration work.

C. The payment for each Fire Hydrant assembly shall include full compensation for furnishing all labor, material, tools, and equipment required to install the fire hydrant assembly complete and in place from the main pipeline to the fire hydrant location. This shall include, but not limited to, saw cutting, paving demolition and disposal, hard scrap restoration, new fire hydrant, isolating valve and valve box, concrete pad around valve box (when specified in specifications or plans), piping, anchoring tee at main, anchoring couplings, fire hydrant extension, excavation, concrete blocking, granular drainage material, backfill, restoration, testing, and flushing, to install a new fire hydrant assembly as indicated on plans and on standard drawings complete and ready for use.

D. This bid item does not include the permanent pavement replacement that will be paid under separate bid item.

E. The Contractors bid price shall include all costs to perform and complete the work within the easements and shown within the drawings.

F. The Contractors bid price shall include all costs to perform and complete the work while meeting the environmental requirements specified within the Special Provisions and as required by the WJT Incidental Take Permit.

2.28 BID ITEM NO. 24 – Zone B Booster Pump Station

A. Measurement and Payment by Lump Sum Paid on a Percent of Work Complete.

B. The Zone B Pump Station shall be measured and paid per complete in-place as shown in the Plans and Details of Volume 3 Drawings. The Contractor shall include all labor, equipment, and materials necessary for a complete and operating booster pump station.

C. The payment for the Zone B Pump Station shall include full compensation for furnishing all labor, material, tools, and equipment required to provide and install the pump station building, pumps, electrical equipment, and accessories. This item shall include all structures, (2) multi-stage vertical inline pumps, piping, fittings, instrumentation, valves, actuators, electrical service, electrical components, flow meters, telemetry, building materials, concrete, site grading, site improvements, fencing and gates, potholing, excavation, backfill, testing and disinfection, and any other appurtenances, labor, equipment, to complete the pump station installation as required by the plans, standard drawings, and specifications, complete and ready for use.

D. This bid item includes pump and instrumentation Manufacturer's field, startup and training services.

E. This bid item does not include SCADA and PLC Customized Programming Work.

F. The Contractors bid price shall include all costs to perform and complete the work within the easements and shown within the drawings.

G. The Contractors bid price shall include all costs to perform and complete the work while meeting the environmental requirements specified within the Special Provisions and as required by the WJT Incidental Take Permit.

2.29 BID ITEM NO. 25 – Zone D1 Booster Pump Station Improvements

A. Measurement and Payment by Lump Sum Paid on a Percent of Work Complete.

B. The Zone D1 Booster Pump Station Improvements shall be measured and paid per complete in-place as shown in the Plans and Details of Volume 3 Drawings. The Contractor shall include all labor, equipment, and materials necessary for a complete and operating booster pump station.

C. The payment for the Zone D1 Pump Station Improvements shall include full compensation for furnishing all labor, material, tools, and equipment required to provide and install the vertical turbine pump, electrical equipment, and accessories. This item shall include all structures, piping, fittings, valving, instrumentation, valves, electrical service, electrical components, flow meters, telemetry, building materials, concrete, site improvements, potholing, excavation, backfill, testing and disinfection, and any other appurtenances, labor, equipment, to complete the pump station installation as required by the plans, standard drawings, and specifications, complete and ready for use.

D. This bid item includes pump and instrumentation Manufacturer's field, startup and training services.

E. This bid item does not include SCADA and PLC Customized Programming Work.

F. The Contractors bid price shall include all costs to perform and complete the work within the easements and shown within the drawings.

G. The Contractors bid price shall include all costs to perform and complete the work while meeting the environmental requirements specified within the Special Provisions and as required by the WJT Incidental Take Permit.

2.30 BID ITEM NO. 26 – FORSHOCK FOR ALL SCADA AND PLC CUSTOMIZED PROGRAMMING WORK

A. Measurement and Payment by a lump sum allowance paid in the amount of **$41,750** shall be included in the Contract Price for Forshock PLC/SCADA control system work associated with the D1 Booster Pump Improvements and Zone B Booster Pump Station Improvements, as shown on the Volume 3 Drawings and described in the Contract Specifications. This allowance includes the Contractor's markup of thirteen percent (13%) for overhead and profit. Forshock shall perform the following work as the Owner-designated PLC/SCADA subcontractor retained by the Contractor.

B. This bid item shall include payment for the D1 Booster Pump Improvements consisting of full compensation for PLC and SCADA programming services furnished by Forshock. The allowance shall include all labor, software development, programming, startup assistance, mileage, travel, and other incidentals required to modify, test, and commission the existing PLC/SCADA system for the D1 Booster Pump Improvements.

C. This bid item shall also include payment for the Zone B Booster Pump Station Improvements consisting of full compensation for furnishing the Forshock PLC/SCADA Control System, including the PLC/RTU control panel and enclosure, associated radio communications equipment, PLC and HMI programming, software development, startup assistance, mileage, travel, and all other labor, materials, equipment, and incidentals required to provide the Forshock PLC/SCADA Control System complete. The PLC/RTU control panel enclosure and HMI enclosure shall be furnished by Forshock and installed by the Contractor as indicated on the Drawings.

D. The Contractor shall coordinate procurement, delivery, installation, testing, and commissioning of the Forshock PLC/SCADA Control System directly with Forshock, the electrical work, and all other affected trades to provide a complete and fully operational control system.

2.31 BID ITEM NO. 27 – ALL REMAINING WORK INCLUDED IN THE CONTRACT DRAWINGS AND SPECIFICATIONS NOT INCLUDED IN BID ITEMS NO. 1 THROUGH 26

A. **Measurement**: Bid Item No. 27 shall be measured as a single lump sum item for completion of ALL WORK shown in the Contract Drawings and specified in the Technical Specifications and Division 0 of the Project Manual that is required for the completion of the finished and operable pipeline and pump station improvements presented in the drawings not including, Bid Items No. 1 through 26.

B. **Payment:** Payment for Bid Item No. 27 shall constitute full compensation for furnishing all labor, materials, equipment, tools, incidentals, overhead, profit, coordination, supervision, and administrative costs necessary to perform and complete all Work described above, including but not limited to miscellaneous and ancillary work, construction surveying, permitting, appurtenances, connections, adjustments, minor removals and reinstatement, and all other items required to deliver a complete Project in accordance with the Contract Documents, whether or not such items are specifically called out in the Bid Item descriptions.

C. **Coordination with Other Bid Items:** This Bid Item is intended to capture only those elements of the Work not paid for under Bid Items No. 1 through 26. No separate or additional payment will be made for Work properly included in other Bid Items.

D. Contractor shall include adequate value in Bid Item No. 27 to cover all miscellaneous work not specifically measured or paid for under other Bid Items.

~~2.32 BID ITEM NO. 29 – DEDUCTIVE ALTERNATIVE NO. 1: LANES END 6-INCH PIPELINE~~2.32 BID ITEM NO. 28 – D-1 – DEDUCTIVE ALTERNATIVE NO. 1: LANES END 6-INCH PIPELINE

A. Bid Item D-1 is Deductive Alternative No. 1 as indicated in the bid form. Bid Item D-1 is provided so the Owner may delete the Lanes End 6-inch pipeline portion of the Work if necessary to meet budget constraints. Bid Item D-1 shall include deletion of all Work shown and specified for the Lanes End 6-inch pipeline segment, including all associated appurtenances, fittings, valves, connections, trenching/excavation, dewatering, bedding, backfill, compaction, traffic control associated with this segment, surface restoration (as applicable to this segment), testing, disinfection, and all incidentals necessary for a complete deletion of this segment as shown on the Drawings and specified in the Contract Documents. This deductive alternative also includes one (1) fire hydrant assembly located on the Lanes End pipeline segment, as separately measured under Base Bid Item No. 23.

B. If Deductive Alternative No. 1 is accepted, the Contractor shall omit the Lanes End 6-inch pipeline Work described above from construction, and the Contract Price will be reduced by the amount bid for Bid Item D-1. All remaining Work shall be completed as shown and specified.

C. ~~Bid Item D-1 corresponds directly to Bid Item No. 10 – Lanes End 6-inch Pipeline. The amount bid for Bid Item D-1 shall represent the full value of deleting the Work included under Bid Item No. 10. The deductive amount shall be equal to the Contractor's price for Bid Item No. 10 and shall include all labor, materials, equipment, overhead, profit, and incidentals associated with that Work. Deductive amounts that are not consistent with the value of Bid Item No. 10 may be considered irregular or non-responsive at the Owner's discretion.~~Bid Item D-1 consists of the full extended price of Base Bid Item No. 10 – Lanes End 6-inch Pipeline (705 linear feet multiplied by the Base Bid Item No. 10 unit price), plus the unit price of one (1) fire hydrant assembly under Base Bid Item No. 23. The fire hydrant unit price used for this deduction shall be identical to the unit price submitted for Base Bid Item No. 23. The pipeline deduction shall include all labor, materials, equipment, overhead, profit, fittings, connections, and incidentals included in Base Bid Item No. 10. No separate or duplicate deduction shall be taken for appurtenances already included in the pipeline unit price. The total amount bid for D-1 shall equal the sum of these two components. Deductive amounts inconsistent with the corresponding Base Bid prices may be considered irregular or non-responsive at the Agency's discretion.

~~2.34 BID ITEM NO. 30 – DEDUCTIVE ALTERNATIVE 2: RECHE ROAD 6-INCH PIPELINE~~2.33 BID ITEM NO. 29 – D-2 – DEDUCTIVE ALTERNATIVE NO. 2: RECHE ROAD 6-INCH PIPELINE

A. Bid Item D-2 is Deductive Alternative No. 2 as indicated in the bid form. Bid Item D-2 is provided so the Owner may delete the Reche Road 6-inch pipeline portion of the Work if necessary to meet budget constraints. Bid Item D-2 shall include deletion of all Work shown and specified for the Reche Road 6-inch pipeline segment, including all associated appurtenances, fittings, valves, connections, trenching/excavation, dewatering, bedding, backfill, compaction, traffic control associated with this segment, surface restoration (as applicable to this segment), testing, disinfection, and all incidentals necessary for a complete deletion of this segment as shown on the Drawings and specified in the Contract Documents. This deductive alternative also includes one (1) fire hydrant assembly located on the Reche Road pipeline segment, as separately measured under Base Bid Item No. 23.

B. If Deductive Alternative No. 2 is accepted, the Contractor shall omit the Reche Road 6-inch pipeline Work described above from construction, and the Contract Price will be reduced by the amount bid for Bid Item D-2. All remaining Work shall be completed as shown and specified.

C. ~~Bid Item D-2 corresponds directly to Bid Item No. 15 – Reche Road 6-inch Pipeline. The amount bid for Bid Item D-2 shall represent the full value of deleting the Work included under Bid Item No. 15. The deductive amount shall be equal to the Contractor's price for Bid Item No. 15 and shall include all labor, materials, equipment, overhead, profit, and incidentals associated with that Work. Deductive amounts that are not consistent with the value of Bid Item No. 15 may be considered irregular or non-responsive at the Owner's discretion.~~Bid Item D-2 consists of the full extended price of Base Bid Item No. 15 – Reche Road 6-inch Pipeline (685 linear feet multiplied by the Base Bid Item No. 15 unit price), plus the unit price of one (1) fire hydrant assembly under Base Bid Item No. 23. The fire hydrant unit price used for this deduction shall be identical to the unit price submitted for Base Bid Item No. 23. The pipeline deduction shall include all labor, materials, equipment, overhead, profit, fittings, connections, and incidentals included in Base Bid Item No. 15. No separate or duplicate deduction shall be taken for appurtenances already included in the pipeline unit price. The total amount bid for D-2 shall equal the sum of these two components. Deductive amounts inconsistent with the corresponding Base Bid prices may be considered irregular or non-responsive at the Agency's discretion.

END OF SECTION

Attachement 2 – Amended Contract Drawings

ABBREVIATIONS

1W	POTABLE WATER
3W	TREATED EFFLUENT
@	AT
AB	AGGREGATE BASE, ANCHOR BOLT
AC	ASPHALT CONCRETE
ACI	AMERICAN CONCRETE INSTITUTE
ADD	ADDITIONAL
ADH AB	ADHESIVE ANCHOR BOLT
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AGG	AGGREGATE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALIGN	ALIGNMENT
AL	ALUMINUM
ANSI	AMERICAN NATIONAL STANDARDS INSTITUE
APPROX	APPROXIMATE
APN	ASSESSOR PARCEL NUMBER
ARCH	ARCHITECTURAL
ARV	AIR RELEASE VALVE
AUTO	AUTOMATIC
AUX	AUXILIARY
AWG	AMERICAN WIRE GAGE
AWWA	AMERICAN WATER WORKS ASSOCIATION
BC	BEGIN CURVE
BDVWA	BIGHORN–DESERT VIEW WATER AGENCY
BF	BRANCH FEEDER
BFV	BUTTERFLY VALVE
BLDG	BUILDING
BM	BENCH MARK, BEAM
BO	BLOW OFF
BOP	BOTTOM OF PIPE
BTM	BOTTOM
BV	BALL VALVE
BVC	BEGINNING OF VERTICAL CURVE
BW	BOTTOM OF WALL
C	CHANNEL
CAV	COMBINATION AIR VALVE
CC	COUNTY CLERK
CDFW	CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CI	CAST IRON
CIP	CAST IRON PIPE
CIRJ	CAST IRON RESTRAINED JOINT
CJ	CONSTRUCTION JOINT
CLR	CLEAR
CL	CENTERLINE
CML&C	CEMENT MORTAR LINED AND COATED
CMS	CORROSION MONITORING STATION
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
COMM	COMMUNICATIONS
CONC	CONCRETE
CONT	CONTINUOUS, CONTINUATION
COORD	COORDINATE
COP	COPPER
CMS	CORROSION MONITORING STATION
CPLG	COUPLING
CS	CONTRACT SPECIFICATIONS
CTD	CENTERED
CTF	CUT TO FIT
CTR	CENTER
CU FT	CUBIC FOOT
CU IN	CUBIC INCH
CU YD	CUBIC YARD
CV	CHECK VALVE
DR	DIMENSION RATIO
DBL	DOUBLE
DI	DROP INLET, DUCTILE IRON
DIA	DIAMETER
DO	DESCRIPTION ONLY
DWG	DRAWING
E	EAST
EA	EACH
EBF	EAST BRANCH FEEDER
EF	EACH FACE
EG	EXISTING GRADE
ELEV	ELEVATION
ELB, ELL	ELBOW
ELC	ELECTRICAL LOAD CENTER
ELEC	ELECTRIC, ELECTRICAL
EP	EDGE OF PAVEMENT
ENGR	ENGINEER
E OHD	ELECTRICAL OVERHEAD
EQL SP	EQUALLY SPACED
EQPT	EQUIPMENT
ES	EACH SIDE
EW	EXTRACTION WELL
EXC	EXCAVATE
EXP	EXPOSED, EXPANSION, EXPORT
EXP JT	EXPANSION JOINT
(E)	EXISTING
FC	FLEXIBLE COUPLING
FCA	FLANGED COUPLING ADAPTER
FCV	FLOW CONTROL VALVE
FG	FINISH GRADE
FIG	FIGURE
FL	FLANGE, FLOOR, FLOWLINE
FLTR	FILTER
FOC	FACE OF CONCRETE
FRP	FIBERGLASS REINFORCED PLASTIC
FT	FOOT OR FEET
FTG	FOOTING
FWD	FORWARD
°F	DEGREE FAHRENHEIT
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GB	GRADE BREAK
GC	GROOVED COUPLING
GCF	GROOVED COUPLING FITTINGS
GE	GROOVED END
GL	GLASS
GLO	GENERAL LAND OFFICE
GPM	GALLONS PER MINUTE
GSM	GALVANIZED SHEET METAL
GSP	GALVANIZED STEEL PIPE
GTE	GENERAL TELEPHONE & ELECTRONICS
GV	GATE VALVE
GVL	GRAVEL
H	HEIGHT
HDD	HORIZONTAL DIRECTIONAL DRILLING
HDPE	HIGH DENSITY POLYETHYLENE
HDR	HEADER
HDWD	HIGH DESERT WATER DISTRICT
HGT	HEIGHT
HORIZ	HORIZONTAL
HP	HORSEPOWER, HIGH POINT
HR	HANDRAIL
HV	HOSE VALVE, HIGH VOLTAGE
I&C	INSTRUMENTATION & CONTROL
ID	INSIDE DIAMETER
IF	INSIDE FACE
IN	INCH
INC.	INCORPORATED
INFL	INFLUENT
INV	INVERT
IP	IRON PIPE
JT	JOSHUA TREE
KIP	THOUSAND POUNDS
KW	KILOWATT
L	LEFT, ANGLE, LENGTH
LAB	LABORATORY
LB	POUNDS
LB/CU FT	POUNDS PER CUBIC FOOT
LF	LINEAR FEET
LG	LONG
LH	LEFT HAND
LONG	LONGITUDINAL
LR	LONG RADIUS
LS	LICENSED SURVEYOR
M	MEASURE
MAX	MAXIMUM
MB	MACHINE BOLT
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MFR	MANUFACTURER
MGD	MILLION GALLONS PER DAY
MH	MANHOLE
MIN	MINIMUM, MINUTE
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
ML	MIXED LIQUOR
MSNRY	MASONRY
MTL	MATERIAL
MWS	MAXIMUM WATER SURFACE
N	NEW, NORTH
NG	NATURAL GROUND
NIC	NOT IN CONTRACT
NO	NUMBER, NUMBERING
NPT	NATIONAL PIPE THREAD
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER, OVERFLOW DRAIN
OF	OUTSIDE FACE, OVERFLOW
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
PC	PRESSURE CLASS
PCC	PORTLAND CONCRETE CEMENT
PE	POLYETHYLENE, PLANE END
PI	POINT OF INTERSECTION
PIP	PROTECT IN PLACE
PL	PLATE, PROPERTY LINE
POC	POINT OF CONNECTION
PP	POWER POLE
PPM	PARTS PER MILLION
PRCST	PRECAST
PREFAB	PREFABRICATED
PRESS	PRESSURE
PROP	PROPERTY
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PS	PUMP STATION
PSI	POUNDS PER SQUARE INCH
PSIG	POUNDS PER SQUARE INCH, GAUGE
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE PLASTIC
PVMT	PAVEMENT
R	RADIUS
RC	RELATIVE COMPACTION
RD	ROAD
RDCR	REDUCER
REF	REFER OR REFERENCE
REINF	REINFORCED, REINFORCING, REINFORCE
REQD	REQUIRED
RFCA	RESTRAINED FLANGED COUPLING ADAPTER
RMJ	RESTRAINED MECHANICAL JOINT
ROW	RIGHT OF WAY
RST	REINFORCING STEEL
RTN	RETURN
RW	RAW WATER, RESERVOIR WATER
R/W	RIGHT OF WAY
S	SOUTH
SBCFCD	SAN BERNARDINO COUNTY FLOOD CONTROL DISTRICT
SCE	SOUTHERN CALIFORNIA EDISON
SCFH	STANDARD CUBIC FEET PER HOUR
SCFM	STANDARD CUBIC FEET PER MINUTE
SCH	SCHEDULE
SEC	SECTION
SH	SODIUM HYPOCHLORITE
SIM	SIMILAR
SL	SERVICE LATERAL
SPEC	SPECIFICATIONS
SQ	SQUARE
SQ FT	SQUARE FOOT
SQ IN	SQUARE INCH
SST, SS	STAINLESS STEEL
STA	STATION
STD	STANDARD
STL	STEEL, STEEL PIPE
STR	STRAIGHT
STRL	STRUCTURAL
STRUCT	STRUCTURE
T	TANGENT
TBD	TO BE DETERMINED
TBG	TUBING
T&B	TOP AND BOTTOM
TDH	TOTAL DYNAMIC HEAD
TECH	TECHNICAL
TEL	TELEPHONE
TEMP	TEMPERATURE
TF	TOP FACE
THD	THREAD
THK	THICK
TP	TURNING POINT
TPZ	TREE PROTECTION ZONE
TT	THRUST TIE
TOV	TOP OF VAULT
TYP	TYPICAL
UNK	UNKNOWN
UNO	UNLESS NOTED OTHERWISE
V	VENT, VOLT, VALVE
VAC	VACUUM
VAR	VARIES
VC	VERTICAL CURVE
VERT	VERTICAL
VPI	VERTICAL POINT OF INTERSECTION
W	WATER, WEST, WIDTH
W/	WITH
WJT	WESTERN JOSHUA TREE
WS	WATER SURFACE, WATER STOP
WSP	WELDED STEEL PIPE
WWF	WELDED WIRE FABRIC
YD	YARD

LEGEND

UTILITY AND TOPOGRAPHIC

NEW	EXISTING	
—W—	—W_X—	POTABLE WATER
	—TEL—	UNDERGROUND COMMUNICATION
	—UE—	UNDERGROUND ELECTRIC
	—E—	OVERHEAD ELECTRIC
	—NPW_X—	NON–POTABLE WATER
	—FO—	FIBER OPTIC
		RIGHT OF WAY
		JOSHUA TREE
		FENCE
		INTERMEDIATE CONTOUR
3	3	INDEX CONTOUR
		BRUSH LINE
		BOUNDARY LINE
		TOP OF BERM
		POWER POLE
	× 1338.4	SPOT ELEVATION
		COMBINATION AIR VALVE
		BLOW OFF VALVE
		PARCEL BOUNDARY
		RIGHT OF WAY LINE AS SHOWN ON COUNTY ASSESSOR MAP
		CDFW STREAM BED ALTERATION PERMIT WORK ZONE BUFFER

HATCHING LEGEND

NEW	EXISTING	
		CONCRETE
		FILL MATERIAL
		FILL MATERIAL OR SOIL
		PAVEMENT CONFORM
		DEMOLISH, REMOVE, OR ABANDON

3

GEOTECHNICAL NOTES

REFERENCES MADE TO THE "GEOTECHNICAL REPORT" REFER TO THE FOLLOWING DOCUMENT PREPARED BY NV5 DATED NOVEMBER 14, 2019 TITLED:

"BIGHORN–DESERT VIEW WATER AGENCY WATER SYSTEM IMPROVEMENTS LANDERS, CALIFORNIA"

BSK PROJECT NUMBER: 226815–0000025.07

REVISION
ADDENDUM NO. 3

DESN
J. NELSON / D. MCKAY

DRW
D. MCKAY

CHECK
M. CAREY

DATE
10/16/2026

REGISTERED PROFESSIONAL ENGINEER
JARED P. NELSON
No. C89673
Exp. 3/31/27
CIVIL
STATE OF CALIFORNIA

VOL. 1 OF 3 - TRANSMISSION AND DISTRIBUTION PIPELINES IMPROVEMENT PROJECT

CIVIL ABBREVIATIONS, LEGENDS, AND NOTES

CALIFORNIA RURAL WATER ASSOCIATION

BIGHORN Desert View WATER AGENCY

PROJECT:
072-01

DATE:
OCTOBER 2026

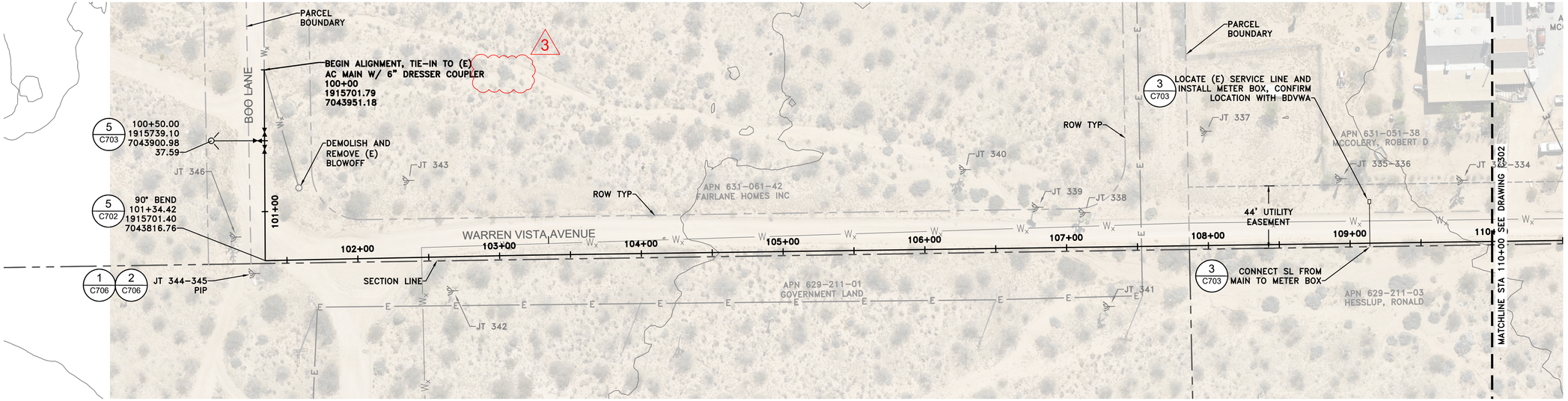
DRAWING NUMBER
C001
3 / 32

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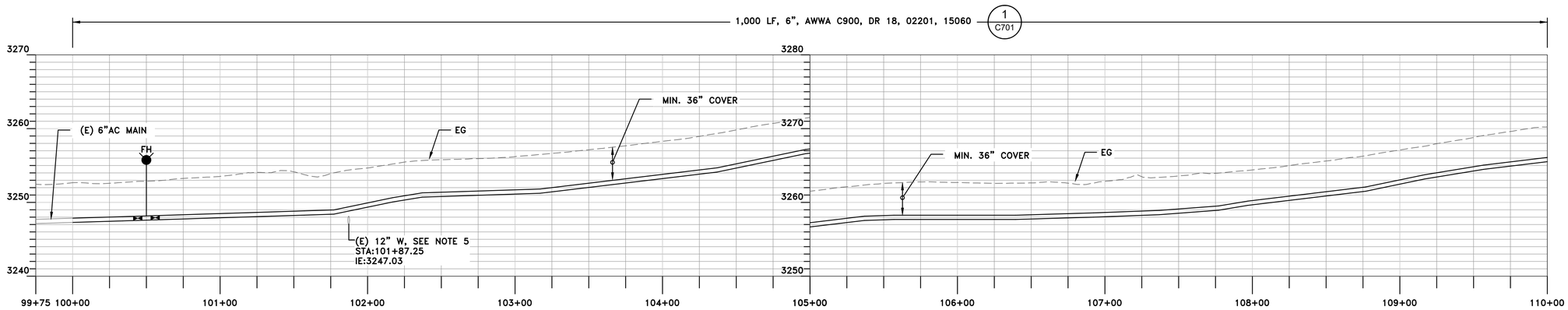
VERIFY SCALE! 0 1"

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PLAN
SCALE: 1" = 40'

1"=40' 0 40' 80'



PROFILE
HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1"=8'

GENERAL SHEET NOTES

1. CONTRACTOR SHALL LIMIT ALL WORK, DISTURBANCE, STAGING, AND SPOILS STOCKPILING TO THE PUBLIC R/W AND RECORDED EASEMENT LIMITS SHOWN. NO OFF-EASEMENT ACCESS OR DISTURBANCE ON PRIVATE PROPERTY IS PERMITTED WITHOUT WRITTEN AUTHORIZATION AND/OR OBTAINING SEPARATE TEMPORARY RIGHTS.
2. THE CONTRACTOR SHALL FOLLOW THE REQUIREMENTS OF THE WESTERN JOSHUA TREE CONSERVATION ACT INCIDENTAL TAKE PERMIT NO. 1927-ITP-2026-009-06:
   A. THE CONTRACTOR SHALL NOT DISTURB, TRIM, RELOCATE, OR ENCROACH INTO THE APPROVED NO-DISTURBANCE BUFFER AROUND ANY WESTERN JOSHUA TREE OR PROTECTED JOSUA TREE, EXCEPT WHERE SPECIFICALLY AUTHORIZED ON THE PLANS OR IN WRITING BY THE ENGINEER AND PROJECT BIOLOGIST.
   B. NO GRADING, EXCAVATION, SPOILS, EQUIPMENT PARKING, REFUELING, OR MATERIAL STORAGE WITHIN FENCED TREE PROTECTION ZONES.
   C. REMOVAL OF ANY WESTERN JOSHUA TREE AUTHORIZED FOR TAKE SHALL BE PERFORMED OR DIRECTLY SUPERVISED BY A DESERT NATIVE PLANT SPECIALIST IN ACCORDANCE WITH THE PROJECT'S WJTCA ITP. DISPOSAL OR RETENTION OF TREE MATERIAL SHALL CONFORM TO PERMIT CONDITIONS; NO POSSESSION OR USE OF TREE MATERIAL BY CONTRACTOR OR ITS EMPLOYEES IS ALLOWED EXCEPT AS EXPRESSLY AUTHORIZED.
2. INSTALL ALL PVC PRESSURE PIPE, FITTINGS, AND APPURTENANCES IN ACCORDANCE WITH AWWA C605 AND THE PIPE MANUFACTURER'S WRITTEN RECOMMENDATIONS, INCLUDING REQUIREMENTS FOR HANDLING, STORAGE, TRENCH EXCAVATION, BEDDING, BACKFILL, JOINT ASSEMBLY, DEFLECTION LIMITS, AND FIELD TESTING.
3. LOCATE HORIZONTAL AND VERTICAL BENDS AS NOTED ON SHEET C201.
4. CONTRACTOR SHALL VERIFY LOCATION OF CAV ASSEMBLIES, BLOW OFF ASSEMBLIES, FIRE HYDRANTS, SERVICES, AND OTHER APPURTENANCES WITH BDVWA STAFF PRIOR TO INSTALLATION.
5. THE CONTRACTOR SHALL POTHOLE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES AT ALL CROSSINGS AND TIE-INS PRIOR TO PIPELINE TRENCHING PER CS SECTION 310523.

REVISION: ADDENDUM NO. 3
DESN: J. NELSON / D. MCKAY
DRW: D. MCKAY
CHECK: M. CAREY
DATE: 10/16/2026

REGISTERED PROFESSIONAL ENGINEER JARED P. NELSON No. C89673 Exp. 3/31/27 CIVIL STATE OF CALIFORNIA

VOL. 1 OF 3 - TRANSMISSION AND DISTRIBUTION PIPELINES IMPROVEMENT PROJECT
WARREN VISTA PIPELINE STA 100+00 TO STA 110+00

CALIFORNIA RURAL WATER ASSOCIATION

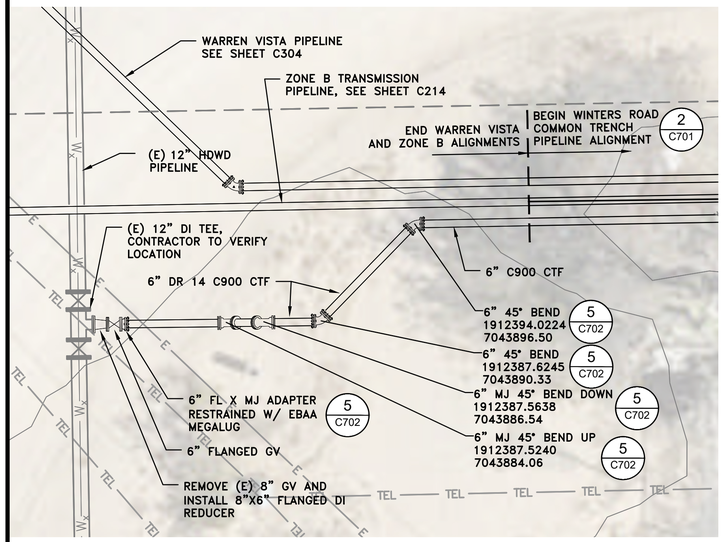
BIGHORN Desert View WATER AGENCY

PROJECT: 072-01
DATE: OCTOBER 2026
DRAWING NUMBER
C301
15 / 32

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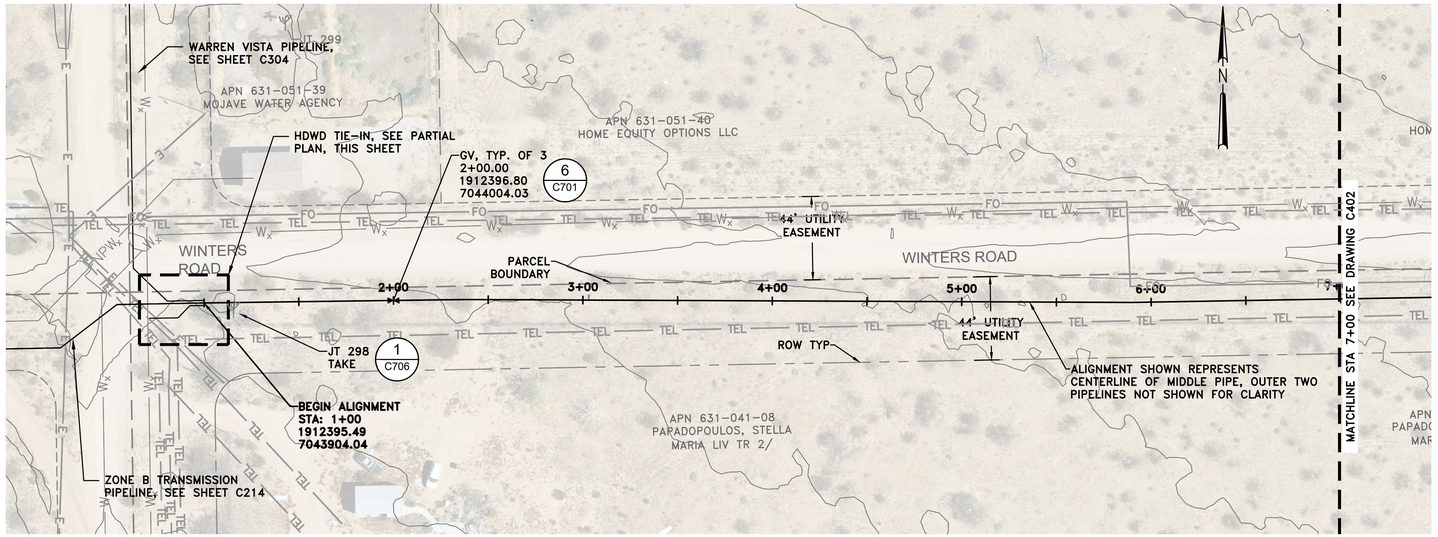
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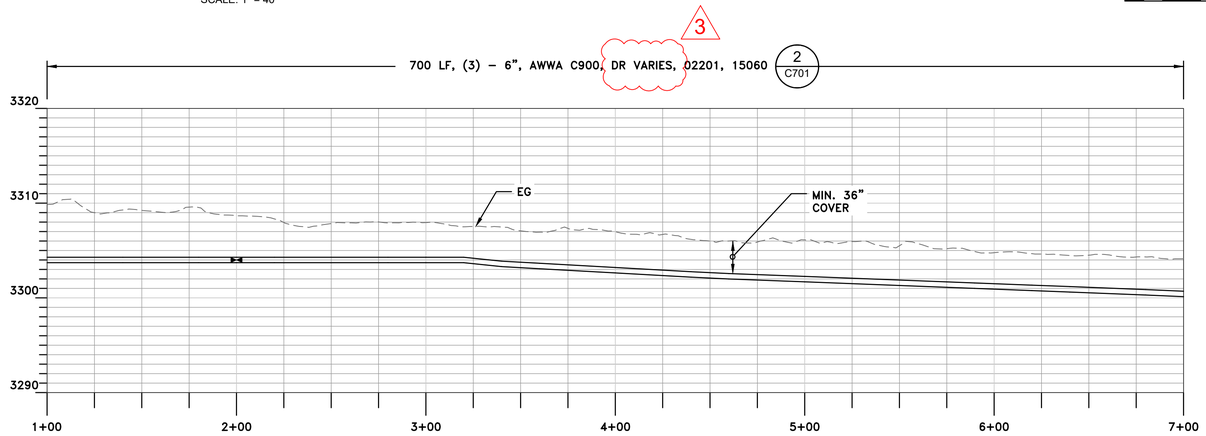
PARTIAL PLAN

SCALE: 1" = 5'



PLAN

SCALE: 1" = 40'



PROFILE

HORIZONTAL SCALE: 1" = 40'
VERTICAL SCALE: 1"=8'

GENERAL SHEET NOTES

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5. THE CONTRACTOR SHALL POTHOLE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES AT ALL CROSSINGS AND TIE-INS PRIOR TO PIPELINE TRENCHING PER CS SECTION 310523.

REVISION
ADDENDUM NO. 3
DESN
J. NELSON / D. MCKAY
DRW
D. MCKAY
CHECK
M. CAREY
DATE
10/16/2026

REGISTERED PROFESSIONAL ENGINEER
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No. C89673
Exp. 3/31/27
CIVIL
STATE OF CALIFORNIA

VOL. 1 OF 3 - TRANSMISSION AND DISTRIBUTION PIPELINES IMPROVEMENT PROJECT

WINTERS ROAD COMMON TRENCH PIPELINES STA 1+00 TO STA 7+00

CALIFORNIA RURAL WATER ASSOCIATION

BIGHORN Desert View WATER AGENCY

PROJECT:
072-01

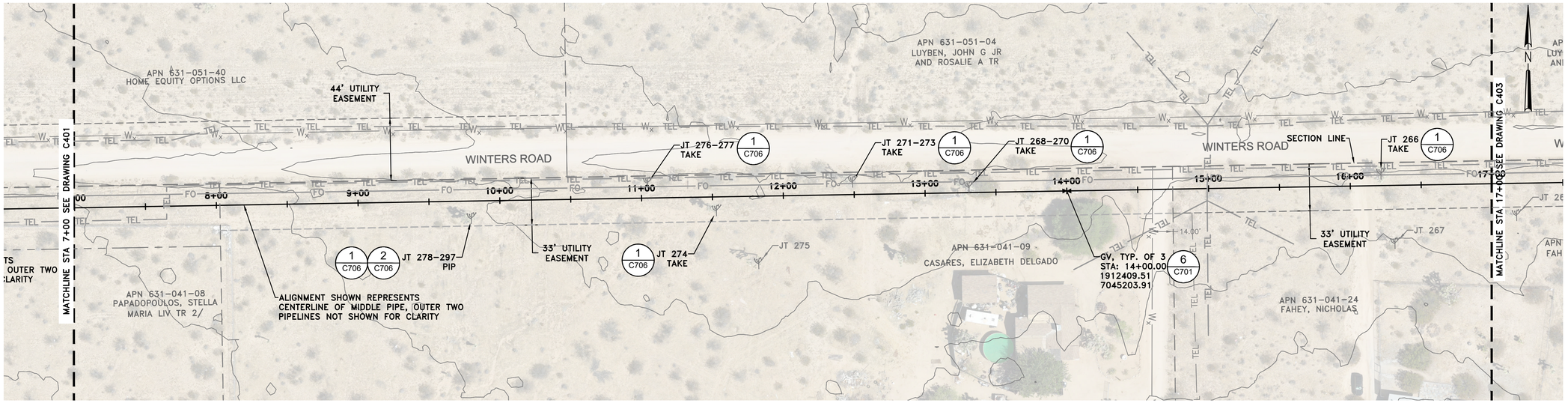
DATE:
OCTOBER 2026

DRAWING NUMBER
C401
19 / 32

VERIFY SCALE! BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ADJUST SCALE ACCORDINGLY. THESE DRAWING WERE PREPARED FOR ANSI D PAPER SIZE AND ARE NOT SUITABLE FOR CONSTRUCTION IF SCALED TO ANY OTHER SIZE. THESE CONTRACT DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS AND ARE NOT TO BE USED AS A STAND ALONE DOCUMENT FOR CONSTRUCTION.

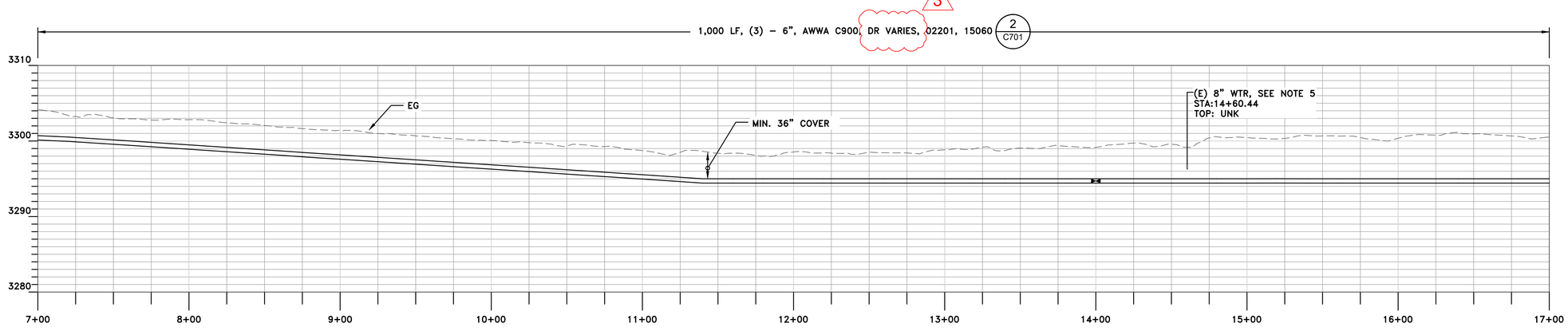
0 1"

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PLAN
SCALE: 1" = 40'

1"=40' 0 40' 80'



PROFILE
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VERTICAL SCALE: 1"=8'

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REVISION
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M. CAREY
DATE
10/16/2026

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STATE OF CALIFORNIA

VOL. 1 OF 3 - TRANSMISSION AND DISTRIBUTION PIPELINES IMPROVEMENT PROJECT
WINTERS ROAD COMMON TRENCH PIPELINES STA 7+00 TO STA 17+00

CALIFORNIA RURAL WATER ASSOCIATION

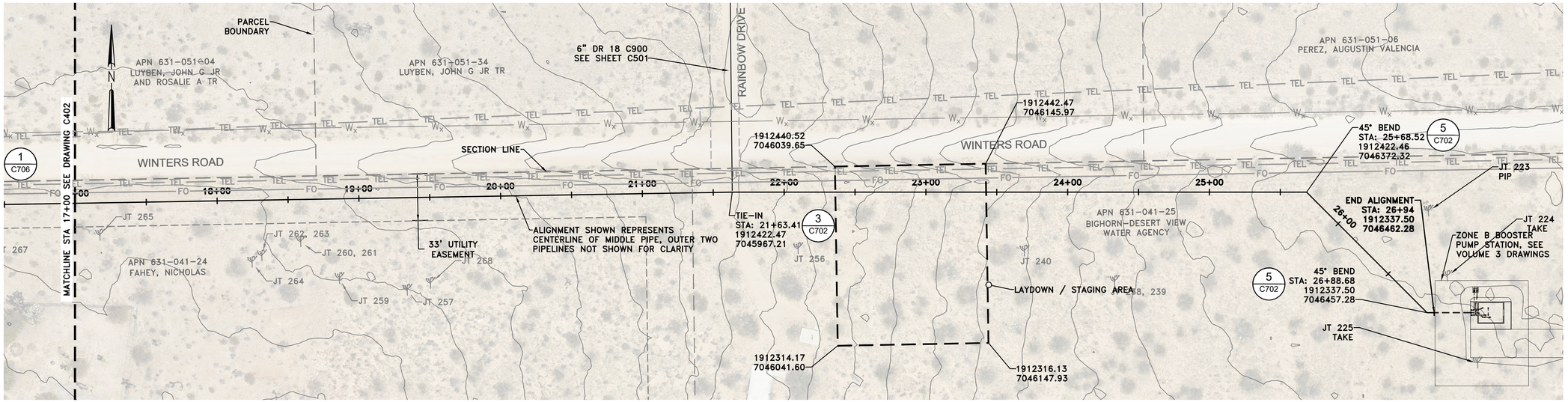
BIGHORN Desert View WATER AGENCY

PROJECT:
072-01
DATE:
OCTOBER 2026
DRAWING NUMBER
C402
20 / 32

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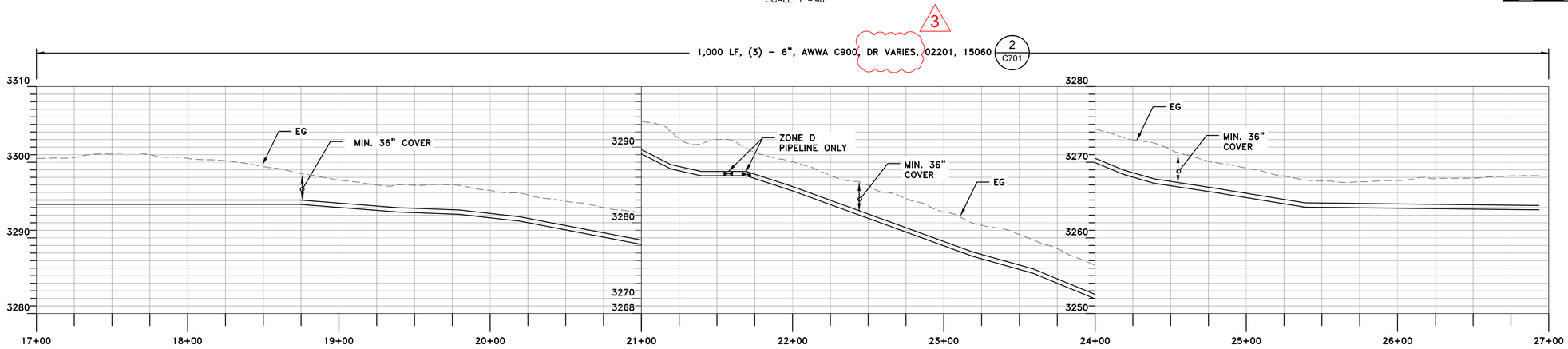
VERIFY SCALE! 0 1"

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PLAN
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1"=40' 0 40' 80'



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VOL. 1 OF 3 - TRANSMISSION AND DISTRIBUTION PIPELINES IMPROVEMENT PROJECT
WINTERS ROAD COMMON TRENCH PIPELINES STA 17+00 TO STA 27+00

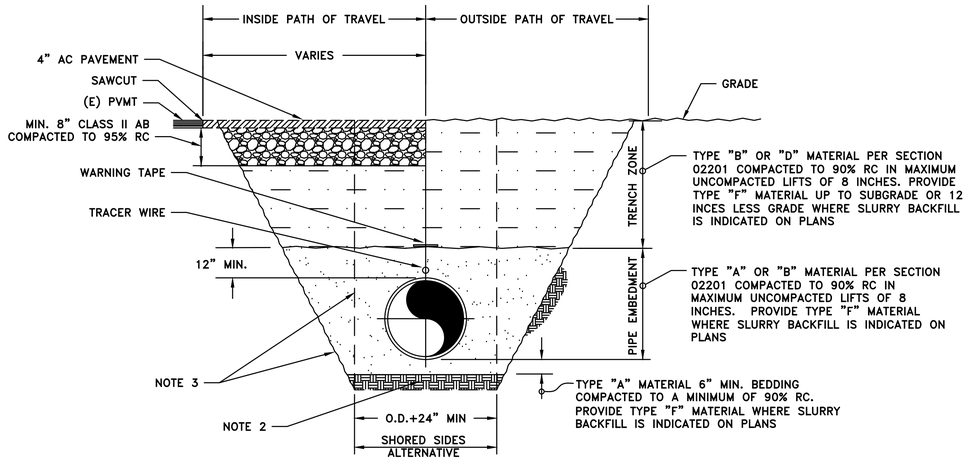
CALIFORNIA RURAL WATER ASSOCIATION

BIGHORN Desert View WATER AGENCY

PROJECT: 072-01
DATE: OCTOBER 2026
DRAWING NUMBER
C403
21 / 32

VERIFY SCALE! BAR IS ONE INCH ON ORIGINAL DRAWING. IF NOT ONE INCH ADJUST SCALE ACCORDINGLY. THESE DRAWING WERE PREPARED FOR ANSI D PAPER SIZE AND ARE NOT SUITABLE FOR CONSTRUCTION IF SCALED TO ANY OTHER SIZE. THESE CONTRACT DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS AND ARE NOT TO BE USED AS A STAND ALONE DOCUMENT FOR CONSTRUCTION.
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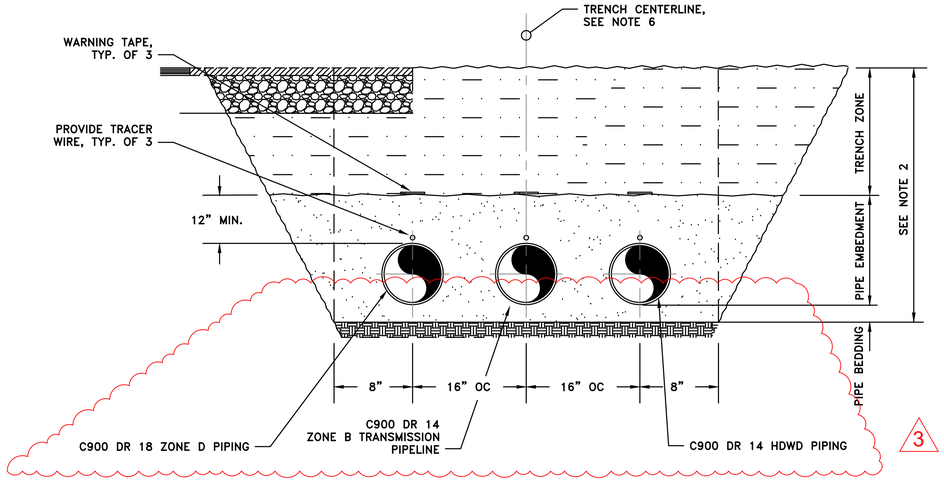
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NOTES:

1. MINIMUM COVER PER PLAN.
2. OVER EXCAVATE BY A MIN. OF 6" AND REPLACE PIPE BEDDING MATERIALS IN AREAS WHERE INADEQUATE MATERIALS ARE FOUND AS DETERMINED BY THE ENGINEER OR GEOTECHNICAL REPRESENTATIVE. IF REQUIRED PER ENGINEER OR THE GEOTECH'S DIRECTION USE 3/4" CRUSHED ROCK WRAPPED IN APPROVED GEO FABRIC.
3. OPEN-TRENCH STABILITY SHALL CONFORM TO THE OSHA REQUIREMENTS OUTLINED IN PART 8.4 OF GEOTECHNICAL REPORT.
4. (E) AGGREGATE BASE IN UNPAVED AREAS SHALL BE REPLACED IN KIND.
5. WHERE SLURRY BACKFILL IS INDICATED ON PLANS PROVIDE CLSM TYPE "F" MATERIAL PER SECTION 02201. PLACE MATERIAL TO SUBGRADE OF BASE MATERIAL WITHIN THE PATCH OF TRAVEL. FOR LOCATIONS OUTSIDE PATH OF TRAVEL PLACE TO 12" BELOW FINISHED GRADE.
6. IN LOCATIONS WHERE THE COVER IS 12 INCHES OR LESS THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND INSTALLATION OF A 6" SLAB W/ #4 REINFORCEMENT WILL BE REQUIRED AS DIRECTED BY THE ENGINEER.
7. PLACE WARNING TAPE 12 BELOW FINISHED GRADE OR 6" BELOW PAVEMENT BASE.
8. INSTALL TRACER WIRE PER SECTION 02201.

1 VAR. PIPE TRENCH NTS

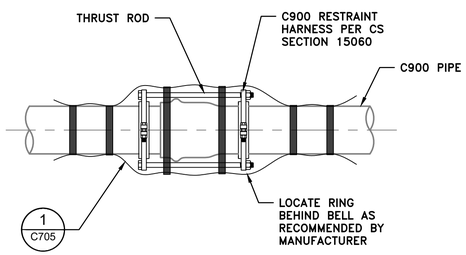


NOTES:

1. MINIMUM COVER PER PLAN.
2. CONFORM TO PIPE BEDDING, PIPE EMBEDMENT, AND TRENCH ZONE MATERIALS SPECIFIED IN DETAIL 1.
3. OPEN-TRENCH STABILITY SHALL CONFORM TO THE OSHA REQUIREMENTS OUTLINED IN PART 8.4 OF GEOTECHNICAL REPORT.
4. (E) AGGREGATE BASE IN UNPAVED AREAS SHALL BE REPLACED IN KIND.
5. MOISTURE CONTENT SHALL BE MAINTAINED WITHIN 2% OF OPTIMUM.
6. TRENCH CENTERLINE CENTERED ON ZONE B TRANSMISSION PIPELINE. THE ALIGNMENT WITHIN PLAN DRAWINGS, ARE REPRESENTATIVE OF THE TRENCH CENTERLINE LOCATION ON SHEETS C401, C402, AND C403.

2 VAR. WINTERS ROAD COMMON PIPE TRENCH (SECTION LOOKING EAST) NTS

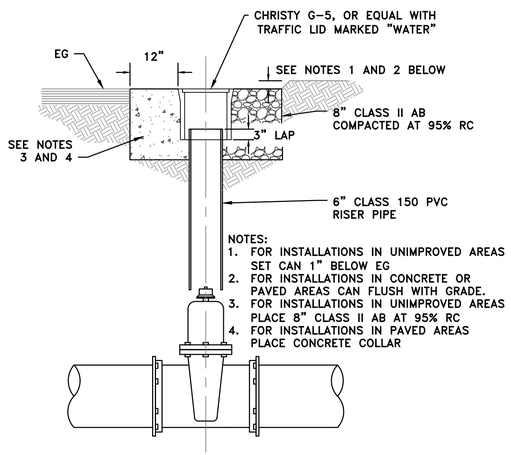
3



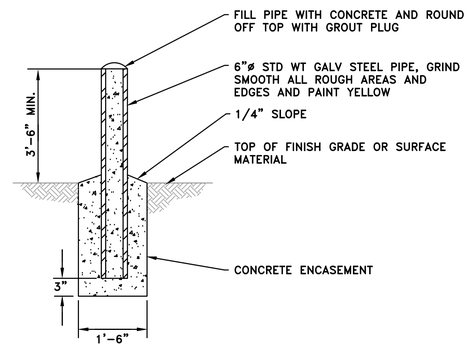
NOTES

1. PRESSURE RATING SHALL BE EQUAL TO OR EXCEED THE RATING OF THE PIPE BEING RESTRAINED UNLESS NOTED OTHERWISE.
2. SEE DETAIL 5 SHEET C702 FOR MINIMUM RESTRAINT LENGTHS

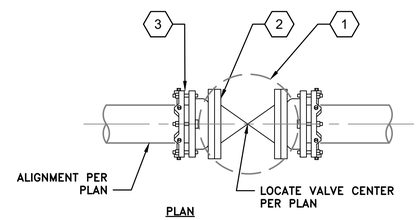
3 VAR. PVC PIPE RESTRAINT NTS



4 VAR. VALVE BOX NTS



5 VAR. TRAFFIC BOLLARD NTS



KEYNOTES

1. CHRISTY G-5 BOX NOT SHOWN FOR CLARITY. INSTALL CHRISTY G-5 BOX PER DETAIL 4, THIS SHEET.
2. MJ X MJ GATE VALVE PER CS 15100, MATCH MAINLINE DIAMETER.
3. CONTRACTOR SHALL RESTRAIN EACH SIDE W/ EBAA MEGALUGS. THE CONTRACTOR MAY ALSO USE A FLANGED GATE VALVE W/ FL X MJ ADAPTERS. MINIMUM RESTRAINT LENGTH FOR DEAD END SHEET C702 DETAIL 5.
4. POLY WRAP ALL FITTINGS PER DETAIL 1 SHEET C705.

6 VAR. ISOLATION VALVE NTS

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10/16/2026

REGISTERED PROFESSIONAL ENGINEER JARED P. NELSON No. C89673 Exp. 3/31/27 CIVIL STATE OF CALIFORNIA

VOL. 1 OF 3 - TRANSMISSION AND DISTRIBUTION PIPELINES IMPROVEMENT PROJECT

CIVIL DETAILS - 1

CALIFORNIA RURAL WATER ASSOCIATION

BIGHORN Desert View WATER AGENCY

PROJECT: 072-01

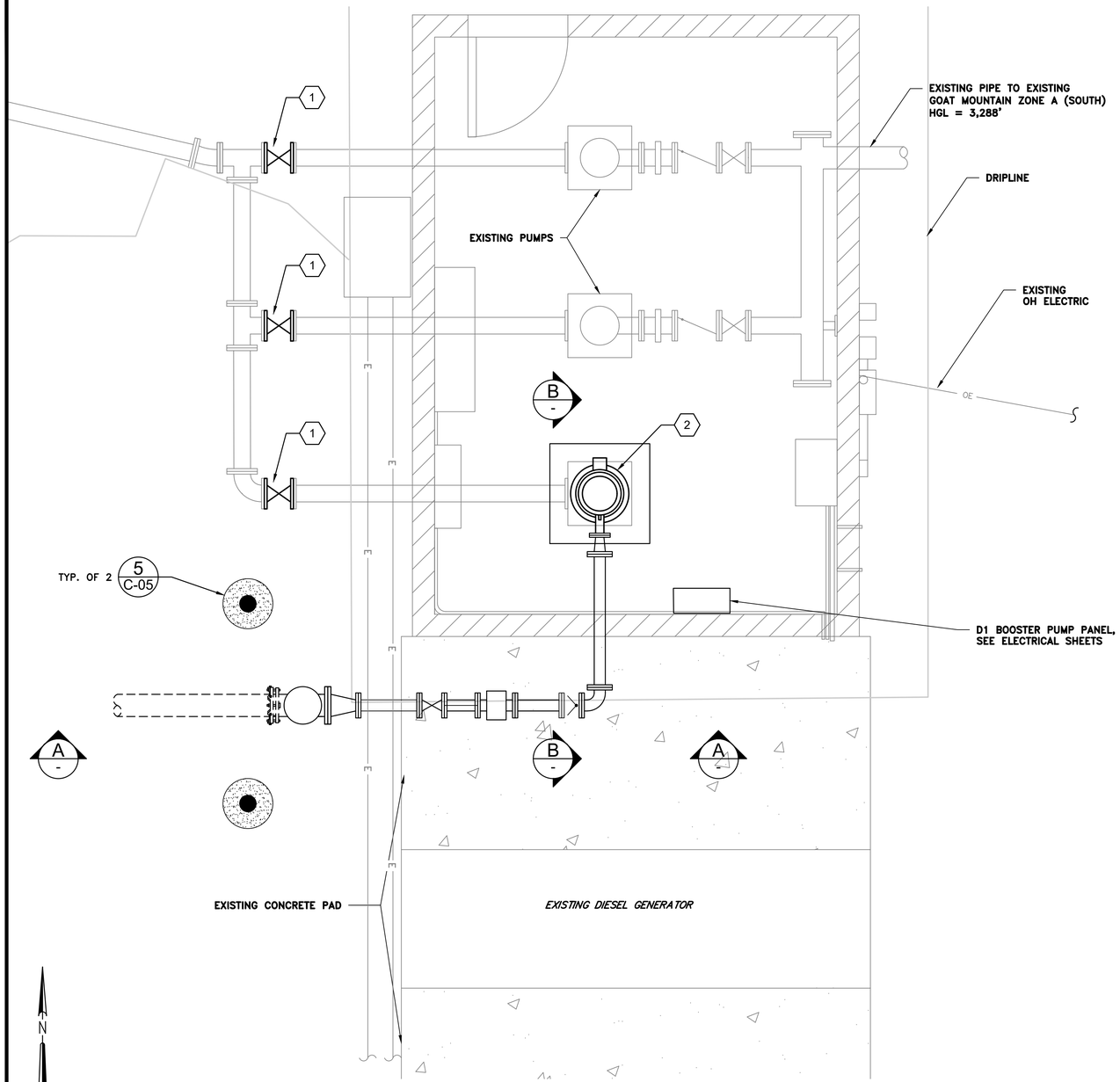
DATE: OCTOBER 2026

DRAWING NUMBER
C701
25 / 32

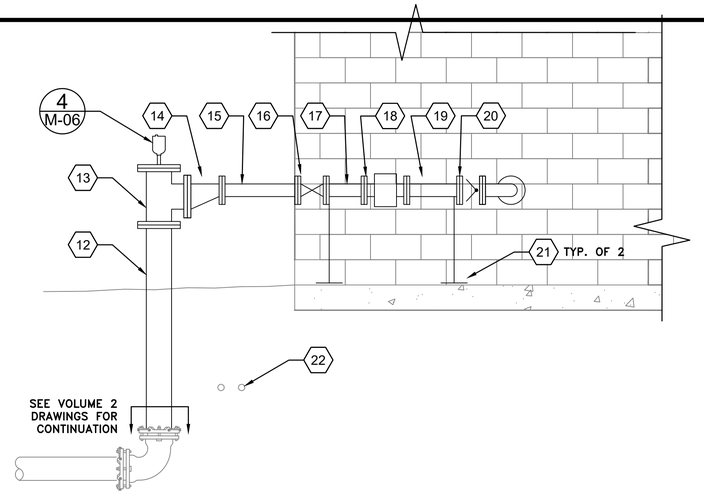
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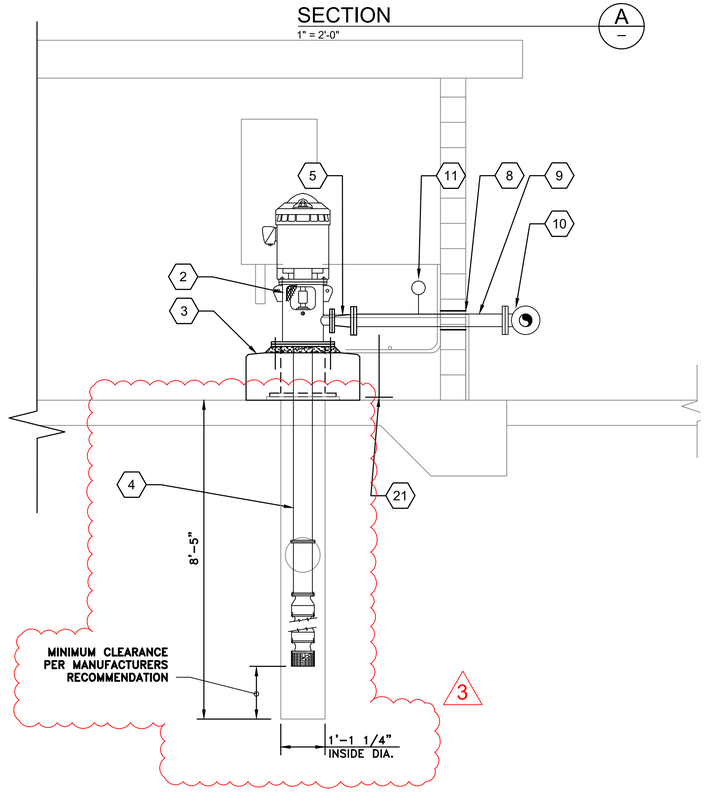
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D1 PUMP STATION IMPROVEMENT PLAN
1" = 2' - 0"



SECTION A
1" = 2'-0"



SECTION B
1" = 2' - 0"

SHEET KEYNOTES

1. REMOVE (E) GATE VALVE AND INSTALL 6" GATE VALVE, USE RESTRAINED FLANGE ADAPTERS WHERE REQUIRED
2. INSTALL ZONE D1 BOOSTER PUMP PER CS 11900.
3. INSTALL PUMP PEDESTAL PER DETAIL 3 SHEET M-06.
4. INSTALL D1 BOOSTER PUMP IN EXISTING PUMP CAN, CONTRACTOR SHALL VERIFY CAN DEPTH, DIAMETER AND OTHER DIMENSIONS PRIOR TO PUMP SUBMITTAL
5. FLANGED DI REDUCER
6. NOT USED
7. NOT USED
8. CORE (E) CMU WALL FOR PIPE PENETRATION, NON-SHRINK GROUT ANNULAR SPACE
9. 4" X 4'-0" FL X FL DI PIPE
10. 4" FLANGED DI 90°
11. SADDLE MOUNTED PRESSURE SWITCH, SEE ELECTRICAL SHEETS
12. 8" FL X PE DI PIPE, CTF
13. 8" FLANGED DI TEE
14. 4" X 8" FLANGED ECCENTRIC DI REDUCER
15. 4" X 2'-0" FLANGED DI PIPE
16. 4" FLANGED GV
17. 4" X 1'-0" FLANGED DI PIPE
18. 4" MAGNETIC FLOW METER PER CS 16010, SEE ELECTRICAL SHEETS
19. 4" X 1'-6" FLANGED DI PIPE
20. 4" SILENT CHECK VALVE
21. FLANGED MOUNTED PIPE SUPPORT PER DETAIL 1 SHEET M-06
22. (2) 2" EXISTING ELECTRICAL CONDUIT, CONTRACTOR TO POTHOLE AN VERIFY PER CS 310523

GENERAL SHEET NOTES

1. AT THE ONSET OF CONSTRUCTION, THE CONTRACTOR SHALL REPLACE EXISTING GATE VALVES (3) IN KIND. THE CONTRACTOR SHALL FIELD VERIFY VALVE TYPE, SIZE AND END CONNECTIONS. CONTRACTOR SHALL OBTAIN APPROVAL FROM FROM CONSTRUCTION MANAGER BEFORE PURCHASING IN KIND REPLACEMENT VALVES.
2. THE DIMENSIONS SHOWN HEREIN WILL VARY DEDPENDING ON THE SPECIFIC INSTRUMENTS, FITTINGS, AND OTHER APPURTENANCES SUBMITTED BY THE SONTRACTOR AND APPROVED BY THE ENGINEER. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY AND VERIFY ALL DIMENSIONS PRIOR TO PIPING LAYOUT.
3. UNO ALL DUCTILE IRON PIPING FITTINGS, ADAPTERS AND RESTAINTS SHALL CONFORM TO CS SECTION 15060.
4. COAT ALL ABOVE GRADE FITTINGS PER CS SECTION 09900.

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DESN: J. NELSON
DRW: J. NELSON
CHECK: M. CAREY
APV: 10/16/2026

REGISTERED PROFESSIONAL ENGINEER JARED P. NELSON No. C89673 Exp. 3/31/27 CIVIL STATE OF CALIFORNIA

VOL. 3 OF 3 - ZONES B AND D1 PUMP STATIONS IMPROVEMENTS

D1 PS MECHANICAL PLAN AND SECTIONS

BIGHORN Desert View WATER AGENCY

PROJECT: 072-01C

DATE: OCTOBER 2026

DRAWING NUMBER: M-05

14 / 38

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