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*Santa Clara Valley Water District
Notification of this Addendum is transmitted via email to all current plan holders.
This Addendum is posted on the Valley Water website at
<https://www.valleywater.org/construction>*

August 25, 2020

**ADDENDUM NO. 2
TO CONTRACT DOCUMENTS FOR THE
SANTA TERESA WATER TREATMENT PLANT
AIR WASH PIPELINE REPLACEMENT PROJECT
Project No. 93764004 Contract No. C0662**

Notice is hereby given to Prospective Bidders that the Contract Documents are modified as hereinafter set forth.

PLANS, SPECIFICATIONS AND CONTRACT DOCUMENTS

SPECIAL PROVISIONS

1. Section 12. Work and Contract Time(s), Article 12.01. Summary of Work

REPLACE Article 12.01.B.3. in its entirety with:

- "3. Clean, reline, video inspect and disinfect approximately 670 LF of existing 12-inch steel cement mortar lined air wash pipe."

TECHNICAL PROVISIONS

2. Section 32., Article 32.02 Stainless Steel Piping and Fittings, under PART 2 PRODUCTS

REPLACE PART 2.01.B.9. in its entirety with:

- "9. Bird spikes shall be installed on top of all above ground/exposed pipe located in the east and west filters. Bird Barrier™, or equal per manufacturer's recommendation where the outside tines of the spikes must extend ½ inch past the effective ledge of the pipe."

3. Section 40, Article 40.01 Lining and Coating – Piping, under PART 2 PRODUCTS

REPLACE Article 2.01.E. and 2.01.E.1. in their entirety with:

“E. *Relining for Existing Buried Steel Cement Mortar Lined Pipe* – Lining for pipe shall be the following, as specified herein and as designated on the Drawing.

1. Liquid epoxy lining conforming to the requirements of AWWA Standards C210 and C620 as applicable and the requirements of these Specifications.”

APPENDIX D, PLAN SET FOR THE CONSTRUCTION OF STWP AIR WASH PIPELINE REPLACEMENT PROJECT

4. **REPLACE** Sheet G-05, General Site Plan (ATTACHMENT 1)

5. **REPLACE** Sheet M-08, Buried Air Wash Pipe Access Details (ATTACHMENT 2)

GENERAL QUESTIONS & RESPONSES

6. **QUESTION:** In article 32.02, Paragraph B. 9., bird spikes are specified to be installed (also see plans M-01 and M-02). Do Bird-X Stainless Steel Bird Spikes qualify as an approved equal product that can be used for this scope of work?

RESPONSE: Bird-X Stainless Steel Bird Spikes is acceptable as an equal product.

7. **QUESTION:** There are several problems with lining buried small diameter SST pipe with a liquid epoxy:

- a. Surface preparation – Liquid epoxies require a near white surface. There are no equivalent standards for stainless steel. Typically, stainless steel is prepared by wiping down with a solvent and blasting with a garnet sand to avoid contamination. This is dangerous from a flammability standpoint and the possibility of ground water contamination.
- b. Temperature and humidity are both critical for proper application. Maintaining the correct humidity will be difficult to correct and monitor. Temperature is nearly impossible to control as the pipe is buried in a huge heat sink. The amount of heat required to keep the pipe at 80°F for the Plasite 4500 (AWWA C210) is difficult.
- c. Checking the lining for thickness, holidays and adhesion would not be possible for any of the pipe except for a few feet from each end.
- d. Any warranty would be void as the material was not applied in accordance with the manufacturer’s instructions.

RESPONSE: The corresponding responses are indicated below:

- a. Per this addendum, Section 12 – Work and Contract Time(s) above, buried pipe is steel cement mortar lined. See AWWA C210 and AWWA C620 for surface preparation procedures.
- b. Industry standards typically use dryers and blowers to regulate the humidity and temperature. Contractor can also regulate the temperature and humidity per pipe lining manufacturer’s recommendation.
- c. Internal pipeline inspection is required per Article 32.09 1.01.A. of the contract documents upon the completion of pipe relining. The Contractor is referred to AWWA C620 Section 4.5 and the pipe lining manufacturer for acceptable processes and procedures in assuring lining quality.
- d. Not applicable, see item no. 7 response “c.” above.

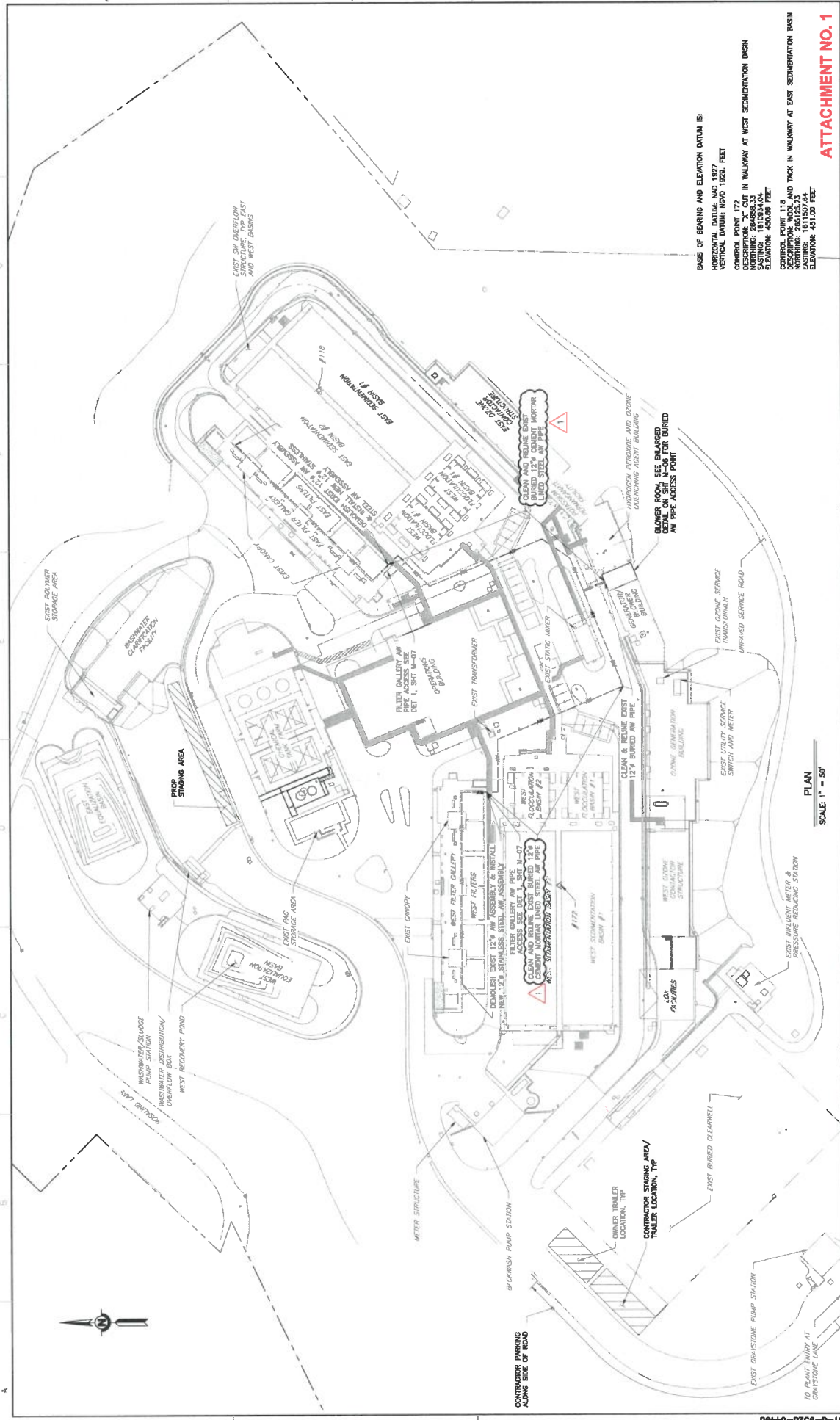
THIS ADDENDUM NO. 2, WHICH CONTAINS 3 PAGES AND 2 ATTACHMENTS (2 PAGES), IS ATTACHED TO AND IS A PART OF THE SPECIFICATIONS AND CONTRACT DOCUMENTS FOR THIS PROJECT.



Heath McMahon, P.E.
Deputy Operating Officer
Water Utility Capital Division

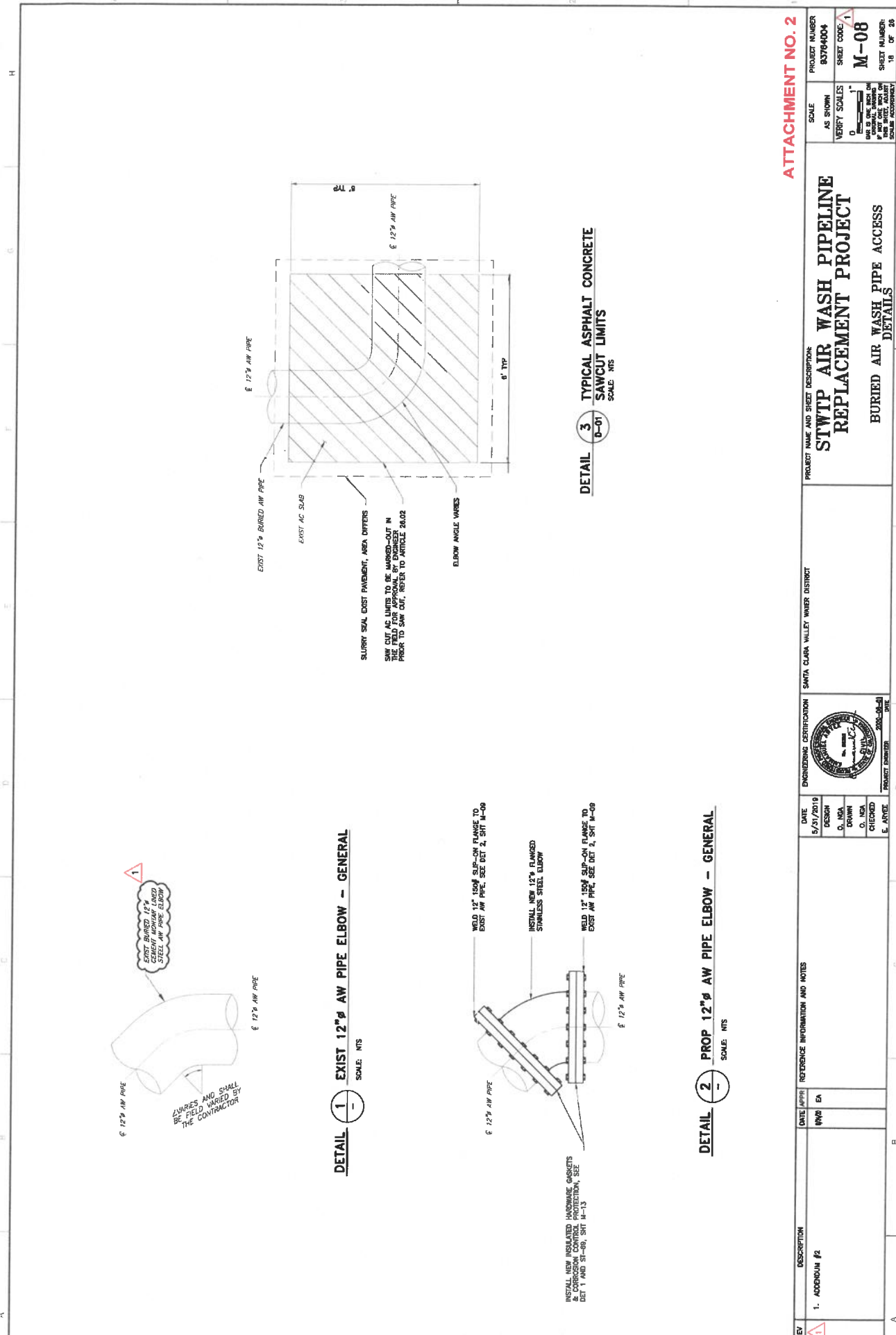
Date: August 25, 2020

ATTACHMENT 1: Revised Drawing - G-05
ATTACHMENT 2: Revised Drawing - M-08



BASES OF BEARING AND ELEVATION DATUM IS:
 HORIZONTAL DATUM: NAD 1983
 VERTICAL DATUM: NGVD 1929, FEET
 CONTROL POINT 172
 DESCRIPTION: "X" CUT IN WALKWAY AT WEST SEDIMENTATION BASIN
 ELEVATION: 4540.54
 ELEVATION: 4540.8 FEET
 CONTROL POINT 118
 DESCRIPTION: WOOD AND TACK IN WALKWAY AT EAST SEDIMENTATION BASIN
 ELEVATION: 4540.8 FEET
 ELEVATION: 4513.02 FEET
ATTACHMENT NO. 1

PROJECT NAME AND SHEET DESCRIPTION STWTP AIR WASH PIPELINE REPLACEMENT PROJECT GENERAL SITE PLAN	PROJECT NUMBER 93794004
	SCALE AS SHOWN VERIFY SCALES 0 1" = 10'
PROJECT NAME AND SHEET DESCRIPTION STWTP AIR WASH PIPELINE REPLACEMENT PROJECT GENERAL SITE PLAN	SHEET CODE G-05 SHEET NUMBER 5 OF 28
ENGINEERING CERTIFICATION 	PROJECT NUMBER 93794004 DATE 05-08-21
DATE 5/31/2019 DESIGN O. JINDA, JMM DRAWN M. KOSTI CHECKED E. ARTYE	PROJECT NAME AND SHEET DESCRIPTION SANTA CLARA VALLEY WATER DISTRICT
REFERENCE INFORMATION AND NOTES 1. ADDENDUM #2 DATE I/P/PR 4/18/19 EA	PROJECT NUMBER 93794004 DATE 05-08-21



DETAIL 1 EXIST 12"Ø AW PIPE ELBOW -- GENERAL
 SCALE: NTS

DETAIL 2 PROP 12"Ø AW PIPE ELBOW -- GENERAL
 SCALE: NTS

DETAIL 3 TYPICAL ASPHALT CONCRETE SAWCUT LIMITS
 SCALE: NTS

REV	DESCRIPTION	DATE	APPR	BY	EA	REFERENCE INFORMATION AND NOTES	DATE	DESIGN	DRAWN	CHECKED	E. APPROV	ENGINEERING CERTIFICATION	SANTA CLARA VALLEY WATER DISTRICT	PROJECT NAME AND SHEET DESCRIPTION	SCALE	PROJECT NUMBER	SHEET CODE	SHEET NUMBER
1	ADDENDUM #2	11/10/20	EA				5/31/2019	D. NKA	D. NKA	D. NKA	E. ATYCE		STWTP AIR WASH PIPELINE REPLACEMENT PROJECT BURIED AIR WASH PIPE ACCESS DETAILS	AS SHOWN	83764004	M-08	19 OF 28	