

## NOTICE TO CONTRACTORS

NOTICE IS HEREBY GIVEN that sealed bids will be received until the hour of 2 p.m. local time, on February 23, 2022, at the office of the Coastside County Water District, 766 Main Street, Half Moon Bay, California 94019, for the Replacement of 8-Inch Pipeline Under Pilarcitos Creek (Strawflower) Project. Bids can be delivered by mail, FedEx, or other delivery service, or dropped off at the District's office. If the Contractor elects to drop off their bid, the Contractor shall coordinate a drop-off time with Gina Brazil, Office Manager for the Coastside County Water District, at 650-726-4405 between the hours of 8:00am am and 5:00 pm. If mail or delivery service is chosen, the contractor acknowledges that the Bid may not arrive by the Bid Open date and time. Bids will be opened publicly and read aloud immediately after they are due over teleconference. A teleconference link and call-in information are provided below:

Join Zoom Meeting

<https://us02web.zoom.us/j/84996719084?pwd=VFBJL1ptcnRVL00wdnRoSEpXRnFVZz09>

Meeting ID: 849 9671 9084

Passcode: 060422

One tap mobile

+16699009128,,84996719084#,,,,\*060422# US (San Jose)

Dial by your location

+1 669 900 9128 US (San Jose)

Meeting ID: 849 9671 9084

Passcode: 060422

This Public Works Contract consists of construction of Replacement of 8-Inch Pipeline Under Pilarcitos Creek at Pilarcitos Avenue (Strawflower) Project located in the City of Half Moon Bay, California, 94019 on Pilarcitos Avenue, and Oak Avenue. Work includes, without limitation:

1. Replacement of the existing 8-inch water line that crosses Pilarcitos Creek between the Strawflower shopping center and Oak Ave with a 10-inch diameter high density polyethylene ("HDPE") water pipeline, approximately 470 linear feet installed by horizontal direction drilling ("HDD") under Pilarcitos Creek; approximately 181 linear



feet of 8-inch diameter ductile iron ("DI") water pipeline installed by open trench construction through Oak Avenue Park and along Oak Avenue. Work includes tying into the existing 8-inch DI water pipeline on Pilarcitos Ave and installation of all new valves and fittings, as shown on the plans.

2. Abandonment of existing facilities. The existing crossing will be cut and capped at each end and abandoned in place.
3. Installation of barriers or fencing as needed to keep the public out of Oak Avenue Park work area and maintain safe access to the pedestrian walkways and bridge at all times other than during the HDD pipe pullback.
4. Site restoration including resodding disturbed areas of Oak Avenue Park.

All work shall be performed in accordance with environmental and cultural resources mitigation measures specified in Section 01410, the Special Provisions, and the conditions of the Project's Coastal Development Permit PDP-21-035 issued by the City of Half Moon Bay Planning Commission.

A **mandatory** prebid meeting will be held on February 8, 2022 at 10 a.m. local time starting at the parking lot behind the Safeway in the Strawflower Shopping Center, 70 Cabrillo Hwy, Half Moon Bay, California 94019, at which time representatives of the District will be available to answer questions and a project site visit will be held. **Bids for this project will only be accepted from qualified contractors who have a representative in attendance at the prebid meeting.**

The Engineer's estimate of the construction cost is \$372,000.

Bid documents consisting of the Contract Forms, Conditions of the Contract, General Requirements, Technical Specifications, and the Contract Drawings are available online by copying and pasting the following link into your web browser or for pickup at Barker Blue, 363 N. Amphlett Blvd., San Mateo, CA 94401, (650) 696-2100.



<https://www.barkerblueplanroom.com/jobs/171/details/replacement-of-8-inch-pipeline-under-pilarcitos-creek-at-pilarcitos-ave-strawflower>

Print or digital requests/orders can be placed by the bidders emailing [plans@barkerblue.com](mailto:plans@barkerblue.com). A non-refundable fee of \$58 per set plus tax is required if picked up, or \$35 for electronic download. Barker Blue requires a minimum of four hours advanced notice for sets being picked up. Additional charges will apply as determined by Barker Blue for mailing and delivering bid sets. All arrangements for obtaining bid sets shall be made directly with Barker Blue and made payable to Barker Blue. Barker Blue will also be keeping the latest plan holder's list during the bid process. All bids must be on the prescribed forms.

Each bid must be enclosed in a sealed envelope addressed to the Board of Directors of the Coastside County Water District and marked on the outside:

"Bid for the Replacement of 8-Inch Pipeline Under  
Pilarcitos Creek (Strawflower) Project  
Coastside County Water District  
Half Moon Bay, CA"

Each bid must be accompanied by a certified or cashier's check or by a corporate surety bond on the form furnished by the District as a guaranty that the bidder, will, if an award is made to him in accordance with the terms of his bid, promptly secure worker's compensation and employer's liability insurance, public liability insurance, and execute a contract in the required form; and furnish satisfactory performance and payment bonds. Said check or bidder's bond shall be in an amount not less than 10 percent of the amount of his bid. Pursuant to Public Contract Code Section 22300, the successful bidder shall be entitled to submit securities in lieu of the retention of progress payments (See Section G9.09 of these General Conditions of these Contract Documents).

Bidders and their proposed subcontractors shall hold such licenses as may be required by the laws of the State of California for the performance of the work specified in the Contract Documents. Bidders bidding as the prime Contractor shall possess a valid California Contractor's "A" License at



the time of Contract award, and additionally shall meet the requirements contained in the Contract Documents.

The District reserves the right at its sole discretion after opening bids to waive any and all irregularities in any bid, and to make award to the lowest responsible bidder, and to reject any and all bids.

This is a Public Works Contract. The attention of bidders is directed to the applicable federal and state requirements and conditions of employment to be observed and minimum wage rates to be paid under the Contract. Pursuant to Section 1773 of the Labor Code, the Department of Industrial Relations has established prevailing rates of per diem wages and general prevailing rates for holiday and overtime work in the locality in which the work called for by this Contract is to be performed for each craft, classification, or type of worker needed to execute this Contract. These prevailing wage rates are available online at <http://www.dir.ca.gov/dlsr/#pwd>.

For information concerning this project contact Mr. Jonathan Sutter at EKI Environment & Water, Inc., Project Manager at Tel. (650)292-9100 or by e-mail at [jsutter@ekiconsult.com](mailto:jsutter@ekiconsult.com).  
Dated this 7th day of January, 2022.

Mary Rogren  
General Manager  
Coastside County Water District



**COASTSIDE COUNTY WATER DISTRICT  
HALF MOON BAY, CALIFORNIA**

**ADDENDUM NO. 1**

**DATE OF ISSUE: 21 JANUARY 2022**

**Contract Documents for  
Replacement of 8-Inch Pipeline Under Pilarcitos Creek at Pilarcitos Avenue (Strawflower)**

**To: ALL HOLDERS OF CONTRACT DOCUMENT FOR THE ABOVE REFERENCED PROJECT.**

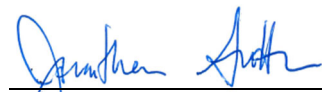
This Addendum forms a part of the Contract Documents and modifies the original Contract Bidding Documents dated January 2022.

Acknowledge receipt of this Addendum on page 3 of the Proposal Section within the Specifications, which has been updated and attached. Failure to do so may subject the prospective bidder to disqualification.

This Addendum consists of Addendum Items 1.001 through 1.003, which amends the Contract Documents and provides additional information for the project. 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 referenced project, and they are bound by all conditions set forth therein.

<b>Item No.</b>	<b>Bid Document Sheet No. or Section No.</b>	<b>Description of Change or Clarification</b>
1.001	Notice to Contractors, page 2, 6th paragraph	The date of the <b>mandatory prebid meeting</b> has been changed to <b>February 8, 2022 at 10 a.m.</b> local time. Meeting location (the parking lot behind the Safeway in the Strawflower Shopping Center) remains unchanged.  Replace "February 3, 2022" with "February 8, 2022".
1.002	Contract, Paragraph 2. Time of Completion	Replace "120 calendar days" with "ninety (90) working days".
1.003	Contract, Paragraph 3. Contract Price.	Replace the year "2020" with "2022".

ENGINEER OF RECORD

  
Jonathan P.N. Sutter, P.E.





**COASTSIDE COUNTY WATER DISTRICT  
HALF MOON BAY, CALIFORNIA**

**ADDENDUM NO. 2**

**DATE OF ISSUE: 11 FEBRUARY 2022**

**Contract Documents for  
Replacement of 8-Inch Pipeline Under Pilarcitos Creek at Pilarcitos Avenue (Strawflower)**

**To: ALL HOLDERS OF CONTRACT DOCUMENT FOR THE ABOVE REFERENCED PROJECT.**

This Addendum forms a part of the Contract Documents and modifies the original Contract Bidding Documents dated January 2022.

Acknowledge receipt of this Addendum on page 3 of the Proposal Section within the Specifications, which has been updated and attached. Failure to do so may subject the prospective bidder to disqualification.

This Addendum consists of Addendum Items 2.001 through 2.011, which amends the Contract Documents and provides additional information for the project. 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 referenced project, and they are bound by all conditions set forth therein.

<b>Item No.</b>	<b>Bid Document Sheet No. or Section No.</b>	<b>Description of Change or Clarification</b>
2.001	Mandatory Pre-Bid Meeting Minutes and Sign-In Sheet (Attached)	Sign-In Sheet and Meeting Minutes, including responses to questions, from Mandatory Pre-Bid Meeting held on 8 February 2022.
2.002	Sheet C-1 (Revised Sheet Attached)	Deleted Construction Note 10 and associated callout. Contractor is not responsible for performing CCTV inspection of sanitary sewer siphons.
2.003	Sheet C-1 (Revised Sheet Attached)	Replaced Construction Note 11 with:  "11. RETAIN EXISTING VEGETATION IN OAK AVENUE PARK AS PRACTICABLE."  Contractor is not responsible for replacing turf in Oak Avenue Park.
2.004	Sheet C-1 (Revised Sheet Attached)	Added surface settlement monitoring points at sanitary sewer siphon crossing location.

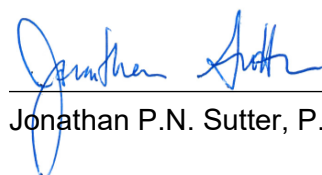


Item No.	Bid Document Sheet No. or Section No.	Description of Change or Clarification
2.005	Sheet C-1 (Revised Sheet Attached)	Construction Note 12 revised to clarify that only the existing utilities that cross the portion of the new water line installed by open trench are required to be potholed.
2.0056	Notice to Contractors, Page N-2, Paragraph 4	Replace "4. Site restoration including resodding disturbed areas of Oak Avenue Park." with "4. Site restoration."
2.007	Proposal Section of Specifications (Revised Section Attached)	<p>The following have been amended:</p> <ul style="list-style-type: none"> <li>- Bid 15 - Final site restoration and resodding has been deleted and Bid Item 15 from the Proposal and Bid Item Descriptions.</li> <li>- Bid 16 – Pre- and post-installation closed-circuit television inspection of sanitary sewer siphons has been deleted from the Proposal and Bid Item Descriptions.</li> <li>- Bid item description for HDPE Pipe (Bid Item No. 1) has been revised to include settlement monitoring and remove potholing.</li> <li>- The last sentence of the first paragraph on Page 7 has been replaced with: "Costs for mobilization, securing an encroachment permit from the City of Half Moon Bay and other permits as required, water pollution control, air pollution control, traffic control, and other overhead costs such as bonds and insurance shall be spread uniformly over the bid items listed below. Fees for the City of Half Moon Bay encroachment permit will be reimbursed at cost by the District and shall not be included in the bid items listed below."</li> </ul>
2.008	Special Provisions, Paragraph SP7.10 Permits and Licenses	<p>Delete the first sentence of paragraph SP7.10.B and replace with the following:</p> <p>"B. City of Half Mon Bay Encroachment Permit: Contractor shall obtain an encroachment permit from the City of Half Moon Bay prior to traffic control or construction activities within the City's right-of-way. The District will reimburse at cost permit fees paid by the Contractor...."</p>



Item No.	Bid Document Sheet No. or Section No.	Description of Change or Clarification
2.009	Specialty Technical Specification, Section 02440 Settlement Monitoring (See Attached Specification Section)	Insert Section 02440 in its entirety.
2.010	Specialty Technical Specification, Section 02732 Closed Circuit Television (CCTV) Inspection of Sewer Pipe	Delete Section 02732 in its entirety.
2.011	Specialty Technical Specification, Section 02900 Landscaping	Delete Section 02900 in its entirety.

ENGINEER OF RECORD


  
Jonathan P.N. Sutter, P.E.




# **MANDATORY PRE-BID MEETING MINUTES**

Replacement of 8-Inch Pipeline Under Pilarcitos Creek at Pilarcitos Ave (Strawflower)  
Coastside County Water District

**Meeting Date and Time:**

8 February 2022 at 10:00 AM

**Meeting Location:**

Strawflower Village Shopping Center  
70 Cabrillo Hwy, Half Moon Bay, CA 94019

The meeting summary below has been prepared by EKI Environment & Water, Inc. (EKI) based on the best recollections of Jonathan Sutter. If there are any discrepancies, please inform Jonathan Sutter at [jsutter@ekiconsult.com](mailto:jsutter@ekiconsult.com). Meeting notes are shown in blue.

## **Attendees**

<b>Attendee</b>	<b>Company</b>
X James Derbin	Coastside County Water District (CCWD or District)
X Darin Sturdivan	CCWD
X Jonathan Sutter	EKI
X Sean McIntosh	W.R. Forde Associates, Inc.
X Mark Stoloski	Golden Bay Construction, Inc.
X John Kottmeier	Andreini Bros. Inc.
X Johnny Zarette	Golden Bay Construction, Inc..
X John O'Connor	Westland Construction Inc.
X Huy Nguyen	Ranger Pipelines

## **I. Welcome**

### **1) Introductions**

- a. Jonathan Sutter – Design Engineer/Project Manager (EKI)
- b. James Derbin – Superintendent (CCWD)
- c. Darin Sturdivan – Distribution Supervisor (CCWD)

### **2) Sign-In Sheet**

- a. EKI noted that this meeting is a mandatory pre-bid meeting and bids will only be accepted from companies present at the meeting. See attached sign-in sheet.

## **II. Project Description and Scope of Work:**

### **1) Replace Existing 8-inch water main under Pilarcitos Creek**

- a. Install approximately 470 linear feet of new 10-inch high-density polyethylene (HDPE) pipe under Pilarcitos Creek by Horizontal Directional Drilling (HDD).



## **MANDATORY PRE-BID MEETING MINUTES**

### Replacement of 8-Inch Pipeline Under Pilarcitos Creek at Pilarcitos Ave (Strawflower) Coastside County Water District

- b. Install approximately 180 linear feet of new 8-inch ductile iron pipe (DIP) by open trench in Safeway parking lot, Oak Ave Park, Oak Ave to connect new crossing to existing pipeline.
- c. Two tie-ins at Oak Ave and Pilarcitos Ave and in the Safeway parking lot.
- d. Cap and abandonment in place of existing crossing.

#### 2) Paving and Site Restoration

### **III. Key Project Considerations:**

- 1) Project must comply with conditions of Coastal Development Permit and Project mitigation measures (for full list see Section 01410) include:
  - a. District will hire a biologist to perform pre-construction surveys, training, and monitor drilling activities.
  - b. All construction personnel shall receive pre-work training on special-status species from District biologist and on cultural resources from District's archeologist.
  - c. No vegetation removal or construction-related ground disturbance within 15 feet of top of bank. Foot traffic related to HDD guidance is permitted.
  - d. Contractor shall prepare and implement frac-out and surface spill prevention plan and prepare hydrofracture calculations (see Section 02413).
  - e. Contractor shall maintain wildlife exclusion fencing as shown on plans.
  - f. All fueling and maintenance equipment shall occur offsite or at least 50-feet from riparian area.
  - g. All holes and trenches shall be backfilled or plated during non-working hours.
  - h. Contractor shall notify businesses and residents adjacent to the construction site of the construction schedule 72 hours prior to construction.
  - i. Contractor shall minimize noise (several requirements).
  - j. Contractor shall provide for passage of emergency vehicles at all times through Oak Ave and Pilarcitos Ave.
  - k. Contractor shall maintain access to residences at all times.
- 2) Work hours: 7:00 a.m. to 6:00 pm, Monday through Friday
  - a. Per environmental mitigation measures, construction activities shall not start until 30 minutes after sunrise and shall cease 30 minutes before sunset.
- 3) Contractor shall perform CCTV of twin sanitary sewer siphons pre- and post-HDD installation.
- 4) Staging Areas
  - a. HDD entry staging located in parking lot behind Safeway.



## **MANDATORY PRE-BID MEETING MINUTES**

### Replacement of 8-Inch Pipeline Under Pilarcitos Creek at Pilarcitos Ave (Strawflower) Coastside County Water District

- b. HDD exit, pullback, and pipe assembly in Oak Ave Park and Pilarcitos Ave.
    - i. Access to park pedestrian pathway and bridge shall be maintained except during pullback.
    - ii. Contractor shall maintain 20' of travel way on Pilarcitos Ave and Oak Ave.
- 5) All work shall be confined to public right-of-way and temporary and permanent easement shown on plans.
  - a. Contractor responsible for obtaining encroachment permit from City of Half Moon Bay.

#### **IV. Bid and Award Information:**

- 1) Bid Documents may be reviewed and purchased through BarkerBlue at <https://www.barkerblueplanroom.com/jobs/171/specs/replacement-of-8-inch-pipeline-under-pilarcitos-creek-at-pilarcitos-ave-strawflower>. Any potential future addenda for this project will be emailed to all current plan holders and will be available on BarkerBlue.
- 2) PDF of geotechnical report available by request. Email Jonathan Sutter at [jsutter@ekiconsult.com](mailto:jsutter@ekiconsult.com).
- 3) Deadline for Written Comments: 15 February 2022 at 12:00 PM
  - a. Comments after this date will not be accepted
- 4) Final Addenda (if necessary) issued by 17 February 2022 at 5:00 PM
- 5) Bid opening: 23 February 2022 at 2:00 PM
  - a. Deliver Bids to:  
Coastside County Water District  
766 Main Street  
Half Moon Bay, CA 94019
  - b. Bids can be delivered by mail, FedEx, or other delivery service, or dropped off at District's office. If the Contractor elects to drop off their bid, the Contractor shall coordinate a drop-off time between 8 a.m. and 5 p.m. with Gina Brazil, Office Manager, at 650-726-4405.
  - c. Bids will be opened and read aloud over teleconference:

Join Zoom Meeting

<https://us02web.zoom.us/j/84996719084?pwd=VFBJL1ptcnRVL00wdnRoSEpXRnFVZz09>

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## **MANDATORY PRE-BID MEETING MINUTES**

Replacement of 8-Inch Pipeline Under Pilarcitos Creek at Pilarcitos Ave (Strawflower)  
Coastside County Water District

Dial by your location  
+1 669 900 9128 US (San Jose)  
Meeting ID: 849 9671 9084  
Passcode: 060422

- 6) Bid Bond: 10% of total amount of proposal (Bidder's bond, Proposal page 19)
- 7) Bids shall remain in effect for 60 days after the bid opening date
- 8) Project Schedule:
  - a. Notice of Award anticipated by 9 March 2022
  - b. Final Completion: 90 working days from the effective date of the Notice to Proceed
  - c. Liquidated Damages: \$1,000/day after the contract completion date

### **V. Questions**

- a. **Does the District have an estimate for the City of Half Moon Bay encroachment permit fees? Would the District consider including an allowance or reimbursing the Contractor for the encroachment permit fees?**

The District does not have an estimate for the City of Half Moon Bay permit fees. The District will reimburse the Contractor at cost for the permit fees. This change is reflected in Addendum 2.

- b. **Confirm that the Oak Avenue Park restoration requires resodding.**

Turf replacement in Oak Avenue Park has been eliminated from the project. This change is reflected in Addendum 2.

- c. **How will the CCTV of the twin sanitary sewer siphons be completed if they are full of water?**

Pre- and post-construction CCTV has been eliminated from the project. Instead, the Contractor will be required to perform surface settlement monitoring at the crossing location. These changes are reflected in Addendum 2.

- d. **Is the Contractor required to pothole the sanitary sewer siphons at the HDD crossing location?**

The contractor is not required to pothole the sanitary sewer siphons. This has been clarified in Addendum 2.

### **VI. Site Walkthrough**

### **VII. Adjourn**

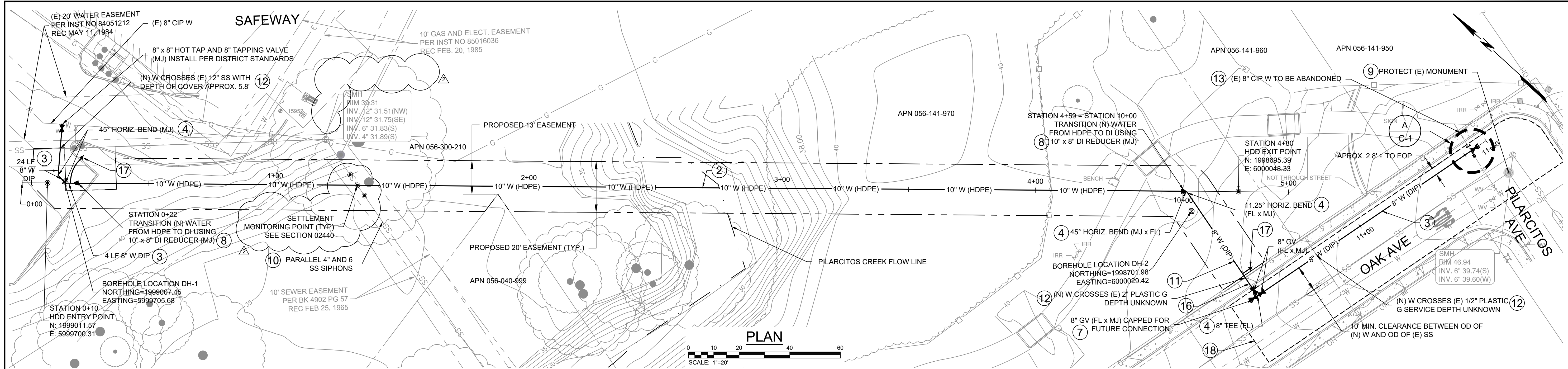


**MANDATORY PRE-BID MEETING**  
**Replacement of 8-Inch Pipeline Under Pilarcitos Creek at Pilarcitos Ave (Strawflower)**

Coastside County Water District  
8 February 2022 at 10:00 AM

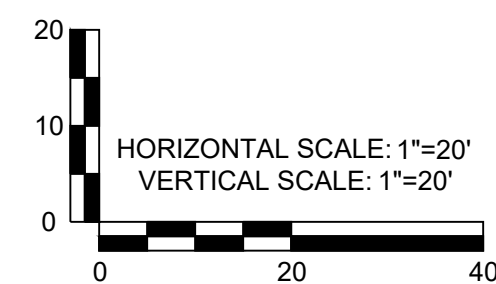
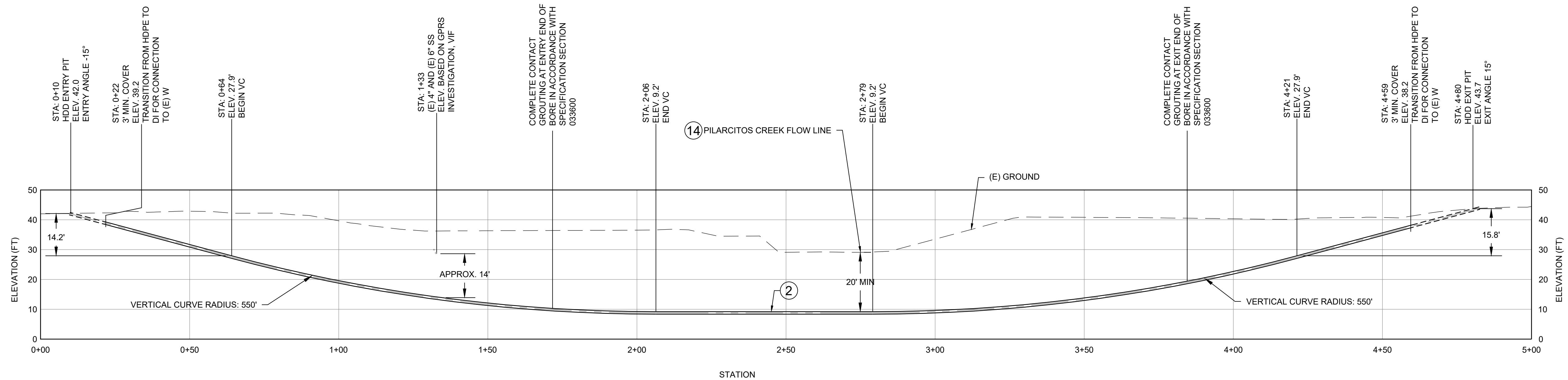
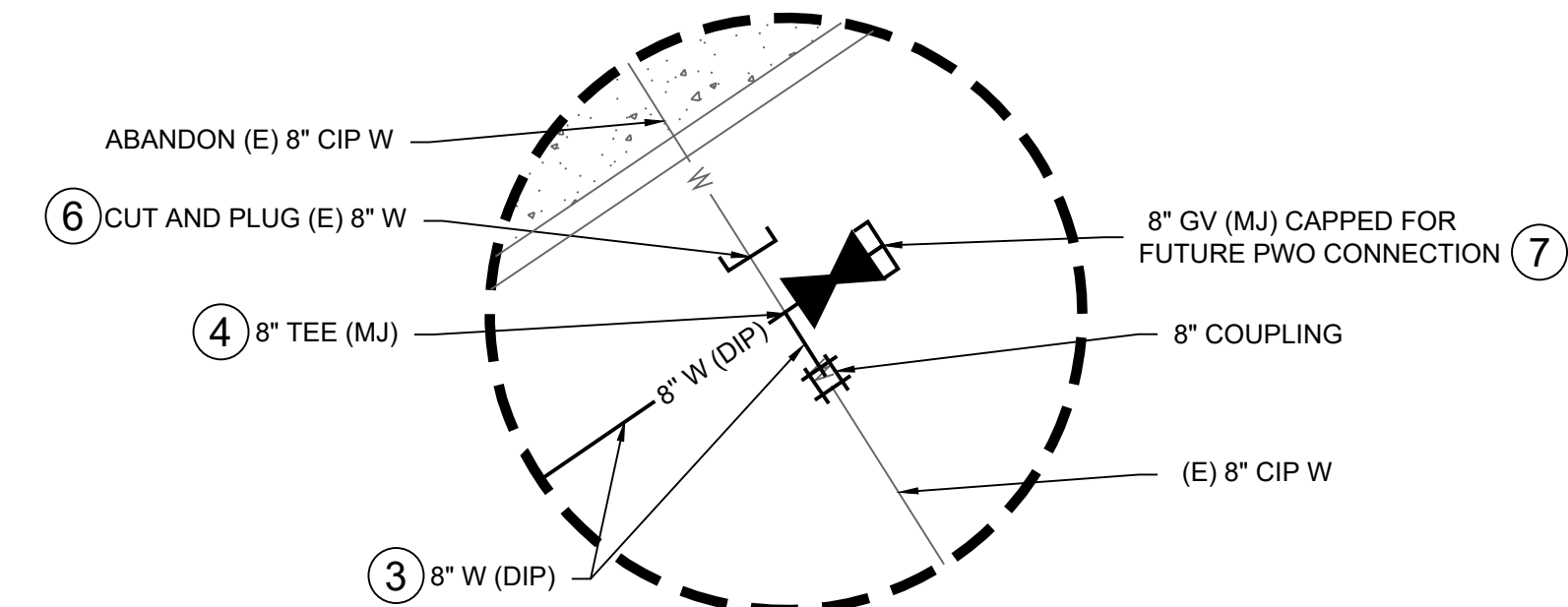
No.	NAME	COMPANY	PHONE	E-MAIL	BIDDING AS PRIME CONTRACTOR? (Yes or No)
1	Sean McIntosh	W.R. Forde Associates, Inc.	(510) 215-9338	bids@wrforde.net	Yes
2	MARK STOKES	GBC	415 999 9342	MARK@GBCINC.COM	Yes
3	John Hoffmeier	Andrzej Bros. Inc.	(650) 726-2001	john.andrzej@bros.com	Yes
4	Johnny Zane H	GBC	510-783-2960	johnny@gbayh.com	Yes
5	Scott D' Connor	WESTLAND CONSTRUCTION	415 505 4494	NEIL@WESTLANDCONTRACTORS	
6	Huy Nguyen	Ranger Pipelines	415-839-0128	huy@rangerpipelines.com	Yes
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12					
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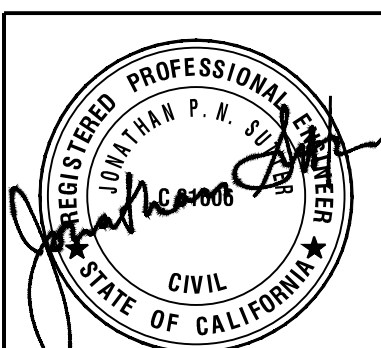


CONSTRUCTION NOTES:

- 1 ALL LOCATIONS AND DEPTHS OF (E) UTILITIES ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR POTHOLING AND VERIFYING SIZES, DEPTHS, AND LOCATIONS OF ALL UTILITIES. ANY CHANGES TO THESE PLANS AND SPECIFICATIONS SHALL BE APPROVED BY THE ENGINEER OR OWNER REPRESENTATIVE.
- 2 INSTALL 10" W HDPE VIA HORIZONTAL DIRECTIONAL DRILLING.
- 3 INSTALL (N) WATER LINE BY OPEN TRENCH PER DETAIL  $\frac{CC-01}{C-3}$  FOR PAVED AREAS  
AND PER DETAIL  $\frac{CC-03}{C-3}$  FOR UNIMPROVED AREAS.
- 4 INSTALL THRUST BLOCKS ON ALL FITTINGS PER DETAIL  $\frac{CC-22}{C-3}$
- 5 INSTALL GATE VALVE PER DETAIL  $\frac{CC-09}{C-3}$  WHERE REQUIRED. INSTALL VALVE EXTENSION PER DETAIL  $\frac{CC-11}{C-3}$ .
- 6 CUT AND PLUG EX INACTIVE WATER LINE PER DETAIL  $\frac{4}{C-4}$  TO ABANDON (E) W IN PLACE.
- 7 CAP ACTIVE WATER LINE PER DETAIL  $\frac{3}{C-4}$ .
- 8 CONTRACTOR SHALL INSTALL REDUCER ANCHOR BLOCK PER DETAIL  $\frac{1}{C-4}$ .
- 9 PROTECT (E) MONUMENT. IF TRENCH IS LESS THAN 5' FROM EDGE OF (E) MONUMENT, CONTRACTOR SHALL NOTIFY ENGINEER AND SURVEY (E) MONUMENT. IF MONUMENT IS DAMAGED DURING CONSTRUCTION, CONTRACTOR SHALL REPLACE MONUMENT PER CITY OF HALF MOON BAY STANDARDS AT THE CONTRACTOR'S EXPENSE.



## 100% SUBMITTAL/BID SET



**CREEK AT PILARCITOS AVENUE (STRAWFLOWER)**  
COASTSIDE COUNTY WATER DISTRICT

## PLAN AND PROFILE

SHEET NUMBER		SCALE: 1" = 0'		APPENDIX NO. 2		JPRS		FEB 2022	
OF		DRAWN: [REDACTED]							
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY		DESIGNED: [REDACTED]							
		APPROVED: [REDACTED]							
JOB NO.:		REV:		DESCRIPTION		APPROD		DATE	



## **PROPOSAL**

**TO:** Coastside County Water District

**PROJECT TITLE:**

Replacement of 8-Inch Pipeline Under Pilarcitos Creek at  
Pilarcitos Avenue (Strawflower) Project

### **BIDDER'S DECLARATIONS AND AGREEMENTS**

The undersigned, hereinafter called the Bidder, hereby proposes to perform all work and to furnish all labor, services, materials (except those specifically described in the Contract Documents as being furnished by the District), tools, equipment, supplies, transportation and all other items and facilities necessary to complete all work for the above-named Project as specified or indicated in the Contract Documents for the price set forth below in this Proposal.

The Bidder has carefully examined all of the Contract Documents for the Project, including the Notice to Contractors, this Proposal and documents submitted together with it, the Contract, the General Conditions, the Special Provisions, the Specifications, the Contract Drawings, and all Addenda. All provisions of the Contract Documents are hereby accepted and all representations and warranties required thereby are hereby affirmed.

The Bidder has by investigation of the site of the work and otherwise satisfied itself as to the nature, scope and location of the work and has fully informed itself as to all conditions and matters which can in any way affect the work or the cost thereof, including quantities of materials and equipment required. The Bidder has exercised its own judgment regarding the interpretation of subsurface information and has utilized all data which it believes pertinent from the District and other sources in arriving at his conclusions.

The Bidder has carefully checked all words and figures inserted in this Proposal and understands that it may not be revoked or withdrawn for 75 days after the date on which Proposals are opened.



### **CONTRACT EXECUTION AND BONDS**

The Bidder agrees that if this Proposal is accepted, it will, within 15 days after having received notice of award, sign and deliver the Contract in the form included in the Contract Documents and will at that time deliver to the District the Performance Bond and Payment Bond required herein.

### **CERTIFICATES OF INSURANCE**

The Bidder agrees that if this Proposal is accepted, it will, within 15 days furnish the District with certificates and/or policies of insurance as specified in the Contract Documents.

### **START OF CONSTRUCTION AND CONTRACT COMPLETION TIME**

The Bidder agrees to begin work within ten (10) days after the effective date of the Notice to Proceed and to complete the work, in all respects, within ninety (90) working days after the effective date of the Notice to Proceed.

### **LIQUIDATED DAMAGES**

If the Bidder is awarded the Contract but fails to complete the work within the Contract time limit set forth above, or as it may be extended as provided in the Contract Documents, Bidder agrees to pay liquidated damages to the District at the rate of One Thousand Dollars (\$1,000) per day until the work is completed.

### **BID PRICE**

The Bidder agrees to accept as full payment for the construction of the Project, in accordance with the Contract Documents, the amount computed in accordance with the following prices, which includes all costs for labor, materials, tools, equipment, services, taxes, insurance, overhead, profit, warranty performance and all other costs necessary to perform the work in accordance with the Contract Documents. It is expressly agreed



that unit prices are not dependent on the exact quantity furnished. THE LOWEST RESPONSIVE RESPONSIBLE BIDDER WILL BE BASED ON THE QUOTE RECEIVED FOR THE BASE BID.

(Show prices in both words and figures. In case of a discrepancy, the amount in words has precedence.)

### **ADDENDA**

The Bidder hereby acknowledges that he has received the following attached Addenda Nos.: \_\_\_\_\_  
(Bidder: insert number of each Addendum received and attach copy to this Proposal) and agrees that all Addenda issued are a part of the Contract Documents. The Bidder agrees that this Proposal includes all impacts resulting from these Addenda.

### **SALES AND USE TAXES**

The Bidder agrees that all federal, State and local sales and use taxes are included in the price for the work set forth below.

### **PROPOSAL (BASE BID PRICES)**

Bid Item	Description with Price Amount Written in Words	Price in Figures	Extended Total
1	Install 10-inch diameter high-density polyethylene pipe by horizontal directional drilling, 470 linear feet at the unit price per foot of _____ _____	\$ _____	\$ _____



Bid Item	Description with Price Amount Written in Words	Price in Figures	Extended Total
2	Install 8-inch diameter ductile iron pipe, 185 linear feet at the unit price per foot of  _____		
	_____	\$ _____	\$ _____
3	Install 8-inch Tee, 2 each at the unit price of  _____		
	_____	\$ _____	\$ _____
4	Install 8-inch 45 degree bend (horizontal or vertical), 3 each at the unit price of  _____		
	_____	\$ _____	\$ _____
5	Install 8-inch 11.25 degree bend (horizontal or vertical), 1 each at the unit price of  _____		
	_____	\$ _____	\$ _____
6	Install 10-inch x 8-inch reducer, 2 each at the unit price of  _____		
	_____	\$ _____	\$ _____
7	Install 8-inch cap, 3 each at the unit price of  _____		
	_____	\$ _____	\$ _____



Bid Item	Description with Price Amount Written in Words	Price in Figures	Extended Total
8	Install 8-inch gate valve, 4 each at the unit price of  _____	\$ _____	\$ _____
9	Install New Combination Air Valve Assembly, 2 each at unit price of  _____	\$ _____	\$ _____
10	Install Plug for inactive water main, 2 each at the unit price of  _____	\$ _____	\$ _____
11	Abandon existing gate valve, 1 each at the unit price of  _____	\$ _____	\$ _____
12	Connection to existing 8-inch water main behind Safeway at the lump sum price of  _____	\$ _____	\$ _____
13	Connection to existing 8-inch water main at Oak Ave and Pilarcitos Ave at the lump sum price of  _____	\$ _____	\$ _____



Bid Item	Description with Price Amount Written in Words	Price in Figures	Extended Total
14	Final paving of water main trench, 800 square feet at the unit price per foot of  _____		
	_____	\$ _____	\$ _____
15	NOT USED		
16	NOT USED		
17	Install Slurry Seal, 425 square yards at the unit price of  _____		
	_____	\$ _____	\$ _____
<b>Sum of Extended Totals (Bid Price)</b>			\$ _____



## BID ITEM DESCRIPTIONS

Compensation for the work shown and described in the Contract Documents will be at the prices shown in the Proposal, and the Contractor shall furnish all labor, materials, tools, equipment, services, taxes, insurance, overhead, profit, permits, warranty performance, and all other items and facilities necessary to complete the work. Costs for mobilization, securing an encroachment permit from City of Half Moon Bay and other permits as required, water pollution control, air pollution control, traffic control, and other overhead costs such as bonds and insurance shall be spread uniformly over the bid items listed below. Fees for the City of Half Moon Bay encroachment permit will be reimbursed at cost by the District and shall not be included in the bid items listed below.

### HDPE Pipe (Bid Item No. 1)

Consists of constructing 10-inch diameter DR 11 high density polyethylene (HDPE) pipeline by horizontal directional drilling (HDD) beneath Pilarcitos Creek as specified in the Contract Documents. Payment shall be deemed full compensation for all labor, materials, equipment and incidentals necessary to install water main, complete in place, including furnishing and installing pipe and tracer wires; pipe alignment staking; walkover guidance and inspection and determination of tracking signal interferences; locating existing utilities; settlement monitoring; drilling equipment and fluid monitoring; contact grouting; preparing all HDD plans, calculations, and other submittals; testing; disinfection; restoring the surface to District and City of Half Moon Bay standards; cleanup; and all appurtenances and work not otherwise itemized but necessary for a complete and fully-functioning installation. Payment will be unit price per foot of pipe along the centerline of the pipe installed complete in place.

### Ductile Iron Pipe (Bid Items No. 2)

Consists of constructing ductile iron pipeline in open trench as specified in the Contract Documents. Payment shall be deemed full compensation for furnishing all labor, materials, equipment and incidentals necessary to provide water main complete, in place, including profile adjustments necessary to avoid utility conflicts; pipe alignment staking; locating existing utilities including potholing; excavation; sheeting and shoring as required; dewatering as necessary; pipe, fittings, thrust



blocks, joint restraining devices, and polyethylene encasement; furnishing backfill material and backfilling; disposal of excavation material; testing; disinfection; surface restoration to District and City of Half Moon Bay standards including pavement removal and replacement in waterline trench, asphalt concrete, pavement striping, and miscellaneous concrete work including sidewalk, curb and gutter, and other existing surface landscaping material; replacement of existing sanitary sewer pipe and laterals and other utility services damaged during construction; cleanup; and all appurtenances and work not otherwise itemized but necessary for a complete and fully-functioning installation. Payment will be unit price for each bid item per foot of pipe installed along the axis of the pipe top.

Ductile Iron Fittings (Bid Items No. 3 through No. 7)

Consist of constructing each fitting as specified in the Contract Documents. Payment shall be deemed full compensation for furnishing all labor, materials, equipment and incidentals necessary to install fittings complete, in place, including thrust blocks, mechanical joints, joint restraining devices, connection accessories, HDPE adapters, and polyethylene encasement. Payment will be at the unit price per valve installed. Fittings installed on hydrant runs including the main tee shall be paid as part of the hydrant bid item. Fittings installed at tie-ins to the existing water main shall be paid as part of the connection bid items.

Gate Valve (Bid Item No. 8)

Consists of constructing 8-inch gate valves as specified in the Contract Documents. Payment shall be deemed full compensation for furnishing all labor, materials, equipment and incidentals necessary to provide complete, in place, the gate valve, extension operator stem where required, valve box and iron cover, thrust block, tie rods; valve connections, joint restraint devices, and polyethylene encasement. Payment will be at the unit price per valve installed.

Combination Air Valve Assembly (Bid Item 9)

Consists of the installation of a new combination air valve assembly per the District's standards as specified in the Contract Documents. Payment shall be deemed full compensation for all labor, materials, equipment and incidentals necessary to install each combination air valve assembly, including



furnishing and installing the valve, connections, enclosures, vaults, covers, and supports; excavation and backfill; temporary repaving of trenches and other excavations where existing asphalt pavement or concrete exists; replacement of damaged concrete curb, gutter and sidewalk; leakage testing and disinfection, and cleanup; and other miscellaneous work and all necessary appurtenances not otherwise itemized as needed to provide a complete and fully-functioning combination air valve assembly. Payment will be unit cost, made per combination air valve assembly installed.

Plug Water Main (Bid Items No. 10)

Consists of plugging or capping the existing water main as necessary to abandon in place as specified in the Contract Documents. Payment shall be deemed full compensation for furnishing all labor, materials, tools, equipment and incidentals and for doing all the work involved in plugging or capping the existing water main, complete in place, including cutting of existing pipe, installation of required thrust blocks or other thrust restraint devices, excavation; backfill; off haul; disposal; restoring the surface to District and City of Half Moon Bay standards including pavement removal and replacement, asphalt concrete, pavement striping, and miscellaneous concrete work including sidewalk, curb and gutter, and other existing surface landscaping material; and all appurtenances and work not otherwise itemized but necessary. Payments will be at the unit price per plug or cap installed for each size water main.

Abandon Existing Water Valve (Bid Items No. 11)

Consists of abandoning existing valve per the District's standards as specified in the Contract Documents. Payment shall be deemed full compensation for all labor, materials, equipment and incidentals necessary to abandon each existing valve complete in place, including excavation, removal of desired items, concrete chipping, backfill, paving, off haul, disposal, saw cutting, cleaning, surface restorations, and other miscellaneous work and all necessary appurtenances not otherwise itemized. Payment will be unit cost, made per existing valve abandoned.

Connections to Existing Water Main (Bid Item No. 12 and 13)

Consists of constructing the connection to:

- Existing 8-inch water main behind Safeway



- Existing 8-inch water main on Oak Ave and Pilarcitos Ave  
This includes a water service shutdown and tie-in as specified in the Contract Documents. Payment shall be deemed full compensation for furnishing all labor, materials, equipment and incidentals necessary to provide the tie-in connection complete, in place, as shown on the Contract Drawings including profile adjustments necessary to avoid utility conflicts; tying into the existing water main; buried pipe, fittings, couplings, thrust block, connections, mechanical joints, joint restraint devices, connection accessories, and polyethylene encasement; water service shutdown; locating existing utilities including potholing; dewatering as necessary; furnishing backfill material and backfilling; disposal of excavation material; testing; disinfection; surface restoration to District and City of Half Moon Bay standards including pavement removal and replacement in waterline trench, asphalt concrete, pavement striping, and miscellaneous concrete work including sidewalk, curb and gutter, and other existing surface landscaping material; replacement of existing sanitary sewer pipe and laterals and other utility services damaged during construction; cleanup; and all appurtenances and work not otherwise itemized but necessary for a complete and fully-functioning installation. Payment will be made in a lump sum.

Final Asphalt Concrete Paving (Bid Item 14)

Consists of repaving the trenches with permanent hot mix asphalt as specified in the Contract Documents. Payment shall be deemed full compensation for all labor, materials, equipment and incidentals necessary to install final asphalt concrete paving complete in place, including removing temporary asphalt, furnishing and installing aggregate base and hot mix asphalt concrete, replacing any damaged striping per City of Half Moon Bay standards, and all work not otherwise itemized but required to restore the street surface to its preconstruction condition. Payment will be made at the unit price per square foot of pavement.

Bid Items 15 and 16 not used

Slurry Seal (Bid Item 17)

Consists of applying slurry seal per City of Half Moon Bay Standards and District's standards as specified in the Contract Documents. The contract price paid for Slurry Sealing shall include full compensation for the furnishing all material and



labor to place slurry seal and shall include the referencing and removal of all striping pave markings and markers and placement of the striping, pavement markings and markers in kind, referencing and protecting existing utility valve covers, manhole and other improvements, placing crack sealant and all other incidental work. No additional compensation is due. Payment will be made per square yard of slurry seal installed.



**SURETY**

If the Bidder is awarded the Contract, the surety who will provide the Performance Bond and Payment Bond will be

\_\_\_\_\_,  
whose address is \_\_\_\_\_  
(Street)

\_\_\_\_\_  
(City) (State) (Zip Code)

**BIDDER**

The name of the Bidder submitting this Proposal is \_\_\_\_\_. The address to which all communications concerned with this Proposal and the contract shall be sent is \_\_\_\_\_  
(Street)

\_\_\_\_\_  
(City) (State) (Zip Code)

The Bidder's home office address, if different from above, is

\_\_\_\_\_  
(Street) (City) (State) (Zip)

The Bidder's Contractor's License No. is: \_\_\_\_\_.  
The License classification is: \_\_\_\_\_.  
The License expires on \_\_\_\_\_.

The Bidder declares under penalty of perjury of the laws of the State of California that the foregoing licensing information is true and correct.

**SIGNATURE****1. If Sole Owner**

I sign as sole owner of the business named above as Bidder.

\_\_\_\_\_



Signature of Bidder

Name: \_\_\_\_\_ Date: \_\_\_\_\_, 20\_\_.

Business telephone no.: (    ) \_\_\_\_\_

2. If Partnership

The undersigned certifies that he/she is a general partner in the Partnership named above as Bidder and that he/she has full authority to sign this Proposal on behalf of the Partnership.

\_\_\_\_\_  
Signature of Partner

Name: \_\_\_\_\_ Date: \_\_\_\_\_, 20\_\_.

Business telephone no.: (    ) \_\_\_\_\_.

3. If Corporation

The undersigned certify that they are officers of the Corporation named above as Bidder and have full authority to sign this Proposal on behalf of the Corporation.

\_\_\_\_\_  
Name of Corporation

BY \_\_\_\_\_ Date: \_\_\_\_\_, 20\_\_.

Signature

Name: \_\_\_\_\_

Print

Title: \_\_\_\_\_

Attest: \_\_\_\_\_

Secretary

Business telephone no. (    ) \_\_\_\_\_.



(If person executing on behalf of Corporation is not the President or Vice President, attach evidence of authority to sign on behalf of Corporation.)

4. If Joint Venture

The undersigned certify that they have full authority to sign this Proposal on behalf of the Joint Venture named above as Bidder.

_____ Name of Joint Venture	
BY _____ Signature	BY _____ Signature
Name: _____ Print	Name: _____ Print
Title: _____	Title: _____
Date: _____, 20__	Date: _____, 20__
Business telephone no.: (    )	

(Submit statement explaining the nature of the individual entities which comprise the Joint Venture and evidence of authority of individuals who sign this Proposal to do so on behalf of the Joint Venture.)



## LIST OF SUBCONTRACTORS

The Bidder is required to furnish the following information in accordance with the provisions of Sections 4100 to 4114, inclusive of the Public Contract Code of the State of California.

<u>Name Under Which Subcontractor Is Licensed</u>	<u>License Number</u>	<u>Address of Place of Business</u>	<u>Portion of Work To Be Done Under Subcontract</u>
1. _____	_____	_____	_____
	_____	_____	_____
			_____
2. _____	_____	_____	_____
	_____	_____	_____
			_____
3. _____	_____	_____	_____
	_____	_____	_____
			_____
4. _____	_____	_____	_____
	_____	_____	_____
			_____
5. _____	_____	_____	_____
	_____	_____	_____
			_____
6. _____	_____	_____	_____
	_____	_____	_____
			_____
7. _____	_____	_____	_____
	_____	_____	_____
			_____
8. _____	_____	_____	_____
	_____	_____	_____
			_____
			_____

Do not list alternative subcontractors for the same work.



# NON-COLLUSION AFFIDAVIT

TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID

State of California) ) ss.  
County of \_\_\_\_\_)

\_\_\_\_\_, being first  
duly sworn, deposes and says that he or she is \_\_\_\_\_  
(sole owner, \_\_\_\_\_ of  
\_\_\_\_\_ a partner, president, secretary, etc.)  
\_\_\_\_\_, the party making the  
foregoing bid; that the bid is not made in the interest of, or  
on behalf of, any undisclosed person, partnership, company,  
association, organization, or corporation; that the bid is  
genuine and not collusive or sham; that the bidder has not  
directly or indirectly 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; that the bidder has not in any manner, directly or  
indirectly, sought by agreement, communication, or conference  
with anyone to fix the bid price of the bidder or any other  
bidder, or to fix any overhead, profit, or cost element of the  
bid price, or of that of any other bidder, or to secure any  
advantage against the public body awarding the contract or  
anyone interested in the proposed contract; that all statements  
contained in the bid are true; and, further, that the bidder has  
not, directly, or indirectly, submitted his or her bid price or  
any breakdown thereof, or the contents thereof, or divulged  
information or data relative thereto, or paid, and will not pay,  
any fee to any corporation, partnership, company, association,  
organization, bid depository, or to any member or agent thereof  
to effectuate a collusive or sham bid.

Signature of Representative of Bidder

Subscribed and sworn to before me,  
a Notary Public in and for the  
State of California, County of \_\_\_\_\_,  
this \_\_\_\_\_ day of \_\_\_\_\_,  
20\_\_.



\_\_\_\_\_  
Signature of Notary Public

(Seal)

My commission expires \_\_\_\_\_, 20\_\_.



**BID SECURITY FORM**

(TO BE USED IF A CHECK, RATHER THAN A  
BIDDER'S BOND, ACCOMPANIES PROPOSAL)

Accompanying this Proposal is a cashier's check or certified  
check payable to Coastside County Water District (hereinafter  
referred to as "District")

for \_\_\_\_\_ Dollars

(\$ \_\_\_\_\_) this amount being at least 10 percent of the  
total Base Bid amount of the Proposal. This check shall become  
the property of the District, and the District shall be entitled  
to its proceeds, if the Bidder's Proposal is accepted by the  
District and the Bidder fails to sign and deliver the Contract  
and to furnish the required bonds within the time set forth in  
the Proposal and other Contract Documents. Otherwise the check  
shall be returned to the Bidder at the time set forth in the  
Contract Documents.



**BIDDER'S BOND**

AMOUNT: \$ \_\_\_\_\_

BOND NO. \_\_\_\_\_

KNOW ALL MEN BY THESE PRESENTS, that \_\_\_\_\_

hereinafter called the PRINCIPAL, and \_\_\_\_\_

\_\_\_\_\_ ,  
a corporation duly organized under the laws of the State of \_\_\_\_\_  
, having its principal place of business  
at \_\_\_\_\_

\_\_\_\_\_ ,  
in the State of \_\_\_\_\_ , and authorized to do  
business in the State of California, hereinafter called the  
SURETY, are held and firmly bound unto the Coastside County  
Water District, hereinafter called the OBLIGEE, or order in the  
sum of \_\_\_\_\_

\_\_\_\_\_ Dollars (\$ \_\_\_\_\_ ) (being at  
least ten percent (10%) of the total amount of Principal's  
proposal) lawful money of the United States, for the payment of  
which 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:

WHEREAS, the PRINCIPAL has submitted its Proposal to the  
OBLIGEE, said Proposal, by reference thereto, being hereby made  
a part hereof.

NOW, THEREFORE, if said Proposal is rejected, or in the  
alternate, if said Proposal is accepted and the PRINCIPAL signs  
and delivers a Contract and furnishes a Performance Bond and  
Payment Bond, in the form and within the time required by the  
Proposal and the Contract Documents, then this obligation shall  
become null and void, otherwise the same shall remain in full  
force and effect, it being expressly understood and agreed that  
the liability of the SURETY for any and all default of the  
PRINCIPAL shall be the amount of this obligation as herein  
stated.



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

In the event suit is brought upon this bond by the OBLIGEE and judgment is recovered, the SURETY shall pay, in addition to the sum set forth above, all costs incurred by the OBLIGEE in such suit, including a reasonable attorney's fees, to be fixed by the Court.

Signed this \_\_\_\_ day of \_\_\_\_\_, 20\_\_.

PRINCIPAL

\_\_\_\_\_

BY \_\_\_\_\_

\_\_\_\_\_  
SURETY

BY \_\_\_\_\_  
Attorney-In-Fact

\* \* \*

Note: Signature of person executing for SURETY must be notarized and evidence of corporate authority attached.



## **SECTION 02440**

### **SETTLEMENT MONITORING**

#### **PART 1 -- GENERAL**

##### **1.01 GENERAL REQUIREMENTS**

###### **A. SCOPE:**

1. This Section includes the minimum requirements for furnishing, installing, and monitoring settlement monitoring points for measuring ground movements around and above trenchless construction operations. The work includes, but is not limited to, installing surface monitoring points, furnishing monitoring equipment, and recording observations and measurements from the monitoring points on a periodic basis before, during, and after trenchless construction.
2. The Contractor is responsible for surveying the elevations of the monitoring points, and other instrumentation locations in accordance with the requirements of this Section. Starting elevations shall be determined before operations begin to establish a baseline, and during and after operations to monitor any movements related to the trenchless construction. All monitoring points shall be surveyed after trenchless construction has been completed to evaluate long-term settlements, as Specified herein.
3. Minimum monitoring point location requirements are shown on the Drawings and specified herein. Additionally, the Contractor shall install other monitoring points as necessary to control operations, monitor ground conditions and ground response to achieve specified project requirements, and to prevent damage to existing structures, utilities, and facilities.

##### **1.02 RELATED WORK SPECIFIED ELSEWHERE**

- A. Section 02413 – Horizontal Directional Drilling

##### **1.03 REFERENCES**

- A. **REFERENCE STANDARDS:** The publications referred to hereinafter form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only. The latest edition of referenced publications in effect at the time of the bid shall govern. In case of conflict between the requirements of this Section and the listed references, the requirements of this Section shall prevail.



**B. DEFINITIONS:**

1. Surface Monitoring Point (SMP): A marking established as a baseline for measuring elevation of the ground surface or surface feature such as railroad tracks, using optical survey methods.

**1.04 DESIGN CRITERIA**

- A. Any ground movements (settlement/heave) shall be limited to values that shall not cause damage to existing structures, utilities, and facilities. In no case shall settlements exceed the applicable values listed in Table 1 below and values listed in applicable permits.

**Table 1 – Maximum Allowable Settlement Values**

<b>Site Feature</b>	<b>Allowable Settlement / Heave (inches)</b>
State Highways	0.50
County Roads / Surface Streets	1.00
Underground Utilities	1.00
Unimproved Ground	3.00

**1.05 SUBMITTALS**

- A. The following information shall be submitted for review in accordance with the Submittals Section (01 33 00). Review and acceptance of the Contractor's Submittals by the Engineer shall not be construed in any way as relieving the Contractor of its responsibilities under this Contract.
1. Qualifications: Submit surveying personnel qualifications in accordance with Paragraph 1.06 A of this Section.
  2. Submit the following, at least one (1) month before scheduled installation of monitoring points:
    - a. Monitoring Point Schedule: Submit the proposed schedule for installing the surface and subsurface monitoring points.
    - b. Description of methods and materials for installing and protecting monitoring points.
    - c. If deviations from the locations shown on the Drawings are proposed, submit drawings with locations of proposed monitoring points shown in plan and profile.



3. Reports and Records:

- a. The Contractor shall submit all reports of monitoring data to the Owner's Representative.
- b. Within 72 hours following installation of the monitoring points, submit:
  - 1) Drawings showing the actual as-built installed location
  - 2) Monitoring point identification number
  - 3) Monitoring point type
  - 4) Installation date and time
  - 5) Details of installed monitoring points, accessories, and protective measures including all dimensions and materials used.
- c. Submit surveyed measurements of all monitoring points at least seven (7) days prior to commencing trenchless operations to establish baseline readings.
- d. Submit surveyed measurements of monitoring points during and after construction in accordance with Paragraph 3.05 of this Section.

**1.06 QUALITY ASSURANCE**

- A. Surveyor Qualifications: All surveying shall be performed by a land surveyor licensed in the State of California with previous experience surveying for the detection of surface deformations.
- B. Should actual field conditions prevent installation of one or more monitoring point(s) at the location shown on the Drawings, obtain written acceptance from the Owner's Representative for new instrument location and elevation.
- C. Surveying for monitoring settlement shall be referenced to the same control points and benchmarks established for setting out the work. Control points shall be tied to benchmarks and other monuments outside of the zone of influence of the excavation or trenchless construction.
- D. Contractor shall provide access and assistance to the Owner's Representative for obtaining supplemental monitoring data, as requested by Owner's Representative.
- E. Provide data from readings of all monitoring points to the Owner's Representative within 24 hours of reading.



## **PART 2 -- PRODUCTS**

### **2.01 SURFACE MONITORING POINTS**

- A. Surface monitoring points shall be established by an inscribed marking or approved surveyor's nail driven flush with the surface in asphalt or concrete paved areas.
- B. In landscaped areas, surface monitoring points shall be established by driving a minimum 0.5-inch diameter steel rod driven a minimum of 12-inches until flush with the ground. The stake shall be driven to a depth required to provide a stable monitoring point given the soil conditions.
- C. Each surface monitoring point shall have a tag or marking indicating the station and offset from centerline.

## **PART 3 -- EXECUTION**

### **3.01 GENERAL – *NOT USED***

### **3.02 INSTALLATION**

- A. Monitoring point installations shall be completed at least seven (7) days in advance of commencing trenchless construction.
- B. Install all monitoring points within one-half (0.5) foot of the horizontal and vertical location shown on the Drawings or as directed by the Owner's Representative.
- C. Surface Monitoring Points: Establish a system of surface monitoring points. Surface monitoring point locations are shown on the Drawings. Up to four (4) additional surface monitoring points may be required and shall be installed as directed by the Owner's Representative.
- D. Monitoring Point Protection, Maintenance, and Repair: Protect the monitoring points from damage. Damaged installations shall be replaced or repaired prior to continuing trenchless construction, unless permitted otherwise in writing by the Owner's Representative.

### **3.03 MONITORING**

- 1. Surveying of all monitoring points will consist of determining the elevation of each monitoring point with respect to a benchmark selected by the Owner's Representative, to a precision of 0.01 foot.
- 2. Contractor shall install and perform a baseline survey of all monitoring points at least 7 days prior to excavation or trenchless construction.
- 3. Regular survey measurements shall be obtained after beginning excavation, or trenchless construction.



- a. All monitoring points shall be surveyed at least once per day during trenchless construction operations.
- b. Once related construction operations are complete, all settlement monitoring devices shall be surveyed once per day for the first seven days, once at 14 days, and once at 30 days after completion of the trenchless work.
- c. Monitoring shall continue for any monitoring points that show movement from the prior survey, until three consecutive surveys show no additional movement.

### **3.04 ABANDONMENT/REMOVAL**

- A. All instrumentation shall remain the property of the Contractor following completion of the work and shall be removed or abandoned according to applicable codes and standards, unless otherwise noted.
- B. Surface Monitoring Points:
  1. All surface monitoring points on public property shall remain in place at the completion of the work.
  2. Remove all surface monitoring points on private property during the cleanup and restoration work, or as required by the Owner's Representative.

**\*\*END OF SECTION\*\***



**COASTSIDE COUNTY WATER DISTRICT  
HALF MOON BAY, CALIFORNIA**

**ADDENDUM NO. 3**

**DATE OF ISSUE: 14 FEBRUARY 2022**

**Contract Documents for  
Replacement of 8-Inch Pipeline Under Pilarcitos Creek at Pilarcitos Avenue (Strawflower)**

**To: ALL HOLDERS OF CONTRACT DOCUMENT FOR THE ABOVE REFERENCED PROJECT.**

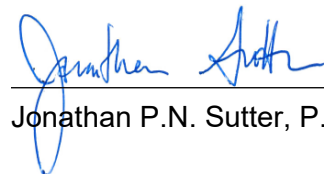
This Addendum forms a part of the Contract Documents and modifies the original Contract Bidding Documents dated January 2022.

Acknowledge receipt of this Addendum on page 3 of the Proposal Section within the Specifications, which has been updated and attached. Failure to do so may subject the prospective bidder to disqualification.

This Addendum consists of Addendum Item 3.001, which amends the Contract Documents and provides additional information for the project. 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 referenced project, and they are bound by all conditions set forth therein.

<b>Item No.</b>	<b>Bid Document Sheet No. or Section No.</b>	<b>Description of Change or Clarification</b>
3.001	Specialty Technical Specification, Section 02440 Settlement Monitoring (See Attached Specification Section)	Replace Section 02440, issued in Addendum No. 2, with the attached specification section. The footer has been updated on pages 2-5.

ENGINEER OF RECORD

  
Jonathan P.N. Sutter, P.E.





## **SECTION 02440**

### **SETTLEMENT MONITORING**

#### **PART 1 -- GENERAL**

##### **1.01 GENERAL REQUIREMENTS**

###### **A. SCOPE:**

1. This Section includes the minimum requirements for furnishing, installing, and monitoring settlement monitoring points for measuring ground movements around and above trenchless construction operations. The work includes, but is not limited to, installing surface monitoring points, furnishing monitoring equipment, and recording observations and measurements from the monitoring points on a periodic basis before, during, and after trenchless construction.
2. The Contractor is responsible for surveying the elevations of the monitoring points, and other instrumentation locations in accordance with the requirements of this Section. Starting elevations shall be determined before operations begin to establish a baseline, and during and after operations to monitor any movements related to the trenchless construction. All monitoring points shall be surveyed after trenchless construction has been completed to evaluate long-term settlements, as Specified herein.
3. Minimum monitoring point location requirements are shown on the Drawings and specified herein. Additionally, the Contractor shall install other monitoring points as necessary to control operations, monitor ground conditions and ground response to achieve specified project requirements, and to prevent damage to existing structures, utilities, and facilities.

##### **1.02 RELATED WORK SPECIFIED ELSEWHERE**

- A. Section 02413 – Horizontal Directional Drilling

##### **1.03 REFERENCES**

- A. **REFERENCE STANDARDS:** The publications referred to hereinafter form a part of this specification to the extent referenced. The publications are referred to in the text by the basic designation only. The latest edition of referenced publications in effect at the time of the bid shall govern. In case of conflict between the requirements of this Section and the listed references, the requirements of this Section shall prevail.



**B. DEFINITIONS:**

1. Surface Monitoring Point (SMP): A marking established as a baseline for measuring elevation of the ground surface or surface feature such as railroad tracks, using optical survey methods.

**1.04 DESIGN CRITERIA**

- A. Any ground movements (settlement/heave) shall be limited to values that shall not cause damage to existing structures, utilities, and facilities. In no case shall settlements exceed the applicable values listed in Table 1 below and values listed in applicable permits.

**Table 1 – Maximum Allowable Settlement Values**

<b>Site Feature</b>	<b>Allowable Settlement / Heave (inches)</b>
State Highways	0.50
County Roads / Surface Streets	1.00
Underground Utilities	1.00
Unimproved Ground	3.00

**1.05 SUBMITTALS**

- A. The following information shall be submitted for review in accordance with the Submittals Section (01 33 00). Review and acceptance of the Contractor's Submittals by the Engineer shall not be construed in any way as relieving the Contractor of its responsibilities under this Contract.
1. Qualifications: Submit surveying personnel qualifications in accordance with Paragraph 1.06 A of this Section.
  2. Submit the following, at least one (1) month before scheduled installation of monitoring points:
    - a. Monitoring Point Schedule: Submit the proposed schedule for installing the surface and subsurface monitoring points.
    - b. Description of methods and materials for installing and protecting monitoring points.
    - c. If deviations from the locations shown on the Drawings are proposed, submit drawings with locations of proposed monitoring points shown in plan and profile.



3. Reports and Records:

- a. The Contractor shall submit all reports of monitoring data to the Owner's Representative.
- b. Within 72 hours following installation of the monitoring points, submit:
  - 1) Drawings showing the actual as-built installed location
  - 2) Monitoring point identification number
  - 3) Monitoring point type
  - 4) Installation date and time
  - 5) Details of installed monitoring points, accessories, and protective measures including all dimensions and materials used.
- c. Submit surveyed measurements of all monitoring points at least seven (7) days prior to commencing trenchless operations to establish baseline readings.
- d. Submit surveyed measurements of monitoring points during and after construction in accordance with Paragraph 3.05 of this Section.

**1.06 QUALITY ASSURANCE**

- A. Surveyor Qualifications: All surveying shall be performed by a land surveyor licensed in the State of California with previous experience surveying for the detection of surface deformations.
- B. Should actual field conditions prevent installation of one or more monitoring point(s) at the location shown on the Drawings, obtain written acceptance from the Owner's Representative for new instrument location and elevation.
- C. Surveying for monitoring settlement shall be referenced to the same control points and benchmarks established for setting out the work. Control points shall be tied to benchmarks and other monuments outside of the zone of influence of the excavation or trenchless construction.
- D. Contractor shall provide access and assistance to the Owner's Representative for obtaining supplemental monitoring data, as requested by Owner's Representative.
- E. Provide data from readings of all monitoring points to the Owner's Representative within 24 hours of reading.



## **PART 2 -- PRODUCTS**

### **2.01 SURFACE MONITORING POINTS**

- A. Surface monitoring points shall be established by an inscribed marking or approved surveyor's nail driven flush with the surface in asphalt or concrete paved areas.
- B. In landscaped areas, surface monitoring points shall be established by driving a minimum 0.5-inch diameter steel rod driven a minimum of 12-inches until flush with the ground. The stake shall be driven to a depth required to provide a stable monitoring point given the soil conditions.
- C. Each surface monitoring point shall have a tag or marking indicating the station and offset from centerline.

## **PART 3 -- EXECUTION**

### **3.01 GENERAL – *NOT USED***

### **3.02 INSTALLATION**

- A. Monitoring point installations shall be completed at least seven (7) days in advance of commencing trenchless construction.
- B. Install all monitoring points within one-half (0.5) foot of the horizontal and vertical location shown on the Drawings or as directed by the Owner's Representative.
- C. Surface Monitoring Points: Establish a system of surface monitoring points. Surface monitoring point locations are shown on the Drawings. Up to four (4) additional surface monitoring points may be required and shall be installed as directed by the Owner's Representative.
- D. Monitoring Point Protection, Maintenance, and Repair: Protect the monitoring points from damage. Damaged installations shall be replaced or repaired prior to continuing trenchless construction, unless permitted otherwise in writing by the Owner's Representative.

### **3.03 MONITORING**

- 1. Surveying of all monitoring points will consist of determining the elevation of each monitoring point with respect to a benchmark selected by the Owner's Representative, to a precision of 0.01 foot.
- 2. Contractor shall install and perform a baseline survey of all monitoring points at least 7 days prior to excavation or trenchless construction.
- 3. Regular survey measurements shall be obtained after beginning excavation, or trenchless construction.



- a. All monitoring points shall be surveyed at least once per day during trenchless construction operations.
- b. Once related construction operations are complete, all settlement monitoring devices shall be surveyed once per day for the first seven days, once at 14 days, and once at 30 days after completion of the trenchless work.
- c. Monitoring shall continue for any monitoring points that show movement from the prior survey, until three consecutive surveys show no additional movement.

### **3.04 ABANDONMENT/REMOVAL**

- A. All instrumentation shall remain the property of the Contractor following completion of the work and shall be removed or abandoned according to applicable codes and standards, unless otherwise noted.
- B. Surface Monitoring Points:
  1. All surface monitoring points on public property shall remain in place at the completion of the work.
  2. Remove all surface monitoring points on private property during the cleanup and restoration work, or as required by the Owner's Representative.

**\*\*END OF SECTION\*\***