

City of Healdsburg



Addendum

Date:	Monday, February 26, 2024
Project Name:	CIP 01-024 Municipal Recycled Water Pipeline Project Project WA004
Addendum No.	2
Issued To:	All plan holders

The following changes are hereby made to the contract documents:

ITEM 1: REPLIES TO BIDDERS QUESTIONS

1.1 On Drawing C201 the Plan View calls for the carrier pipe inside the casing is required to be 12” FPVC. The Profile View calls for the carrier pipe to be 12” DR C900 pipe with bell harness joint restraints. Please confirm which type of pipe is required for the carrier pipe.

Response: The carrier pipe shall be 12” PVC AWWA C-900, DR 18 with restrained joints, as indicated in the profile view.

1.2 There are no details for the 11.25 bend.

1. Is a standard concrete thrust block similar to WL 10 with a MJ Mega Lug restraint sufficient? I.e. Detail 27/C109 does not indicate an anchor block for an 11.25 bend.
2. Are harness assemblies with tie rods required? Details WL11 and WL12 on C109 do not show 11.25 bends.
3. Similar to #2 above. 22.5o bends are not shown on WL11 and WL12. Are harness assemblies with tie rods required for 22.5 bends?
4. Is Ductile Iron Pipe required between the 11.25 bend runs listed above?
5. Similar to #4 above. Is Ductile Iron Pipe required between the 22.5 bend runs listed above?

Response:

1. ***For 11.25 degree bend, use the smallest thrust block indicated on the WL10 detail. Per Section 15143.2.01.B.1.b, use restrained joints on buried piping on fittings that create a change in pipe size and on fittings that result in a change of direction, whether the change is in horizontal plane or a vertical plane. Per note 35.f on G002 all bends, fittings, reducers, etc. shall have thrust blocks.***
2. ***Bell harness assemblies will be required for the carrier pipe in the casing Sta 20+68 +/- to Sta 22+50 +/- . Please use the Details 24/D109 and Detail***

25/D109 as presented where indicated and where crossing of unforeseen utilities is required.

3. *Details WL11 and WL12 in Details 24/D109 and 25/D109 indicate the fittings shall be 45 degrees or less in note 5 and 4, respectively.*
4. *The design intent is C900 PVC pipe and ductile iron fittings.*
5. *The design intent is C900 PVC pipe and ductile iron fittings.*

ITEM 2 AMENDMENTS TO THE CONTRACT DOCUMENTS

2.1 On page 11 and 14, to Section PROPOSAL, **REPLACE with the PROPOSAL pages 11 through 14 attached to this Addendum 2.**

2.2 On page 01200-1 through 01200-16, of Section 01200 MEASUREMENT AND PAYMENT, **REPLACE with the Section 01200 – MEASUREMENT AND PAYMENT pages 01200-1 through 01200-16 attached to this Addendum 2.**

2.3 On Drawing C102, **REPLACE with Drawing C102 attached to this Addendum 2.**

2.4 On Drawing C103, **REPLACE with Drawing C103 attached to this Addendum 2.**

A copy of this addendum, signed by the bidder, must accompany all bids.

Authorized By



Tyler Kettmann Central Services Manager
City of Healdsburg

Accepted By Bidder

Name

Company

PROPOSAL

For: Construction of MUNICIPAL RECYCLED WATER PIPELINE PROJECT

For the City of Healdsburg, Sonoma County, California.

TO THE HONORABLE CITY COUNCIL
OF THE CITY OF HEALDSBURG

The undersigned, as bidder, declares that he has carefully examined the work, the annexed proposed form of contract, and agrees that if this Proposal is accepted that he will contract with the City of Healdsburg, under the form of contract annexed of hereto, to provide all the necessary tools, apparatus, and other means of accomplishing the work as specified in the contract in the manner and time herein prescribed, and in accordance with the requirements of the Engineer as therein set forth, and he will take in full payment therefore the following prices for the work to be done completely performed to the satisfaction of the City of Healdsburg, to-wit:

Base Bid

Item No.	Item Description	Estimated Quantity	Unit of Measure	Unit Cost (in figures)	Total Cost (in figures)
1	Mobilization and Demobilization	1	LS		
2	Traffic Control	1	LS		
3	Storm Water Pollution Prevention	1	LS		
4	Sheeting, Shoring and Bracing	1	LS		
5	Dewatering	1	LS		
6	Install 4-inch C900 PVC by Open-Cut – Station 50+00 to Station 56+78	678	LF		
7	Install 12-inch C900 PVC by Open-Cut – Station 10+17 to Station 20+58	1,041	LF		
8	Install 12-inch C900 PVC by Open-Cut – Station 22+20 to Station 46+32	2,412	LF		
9	Install 12-inch C900 PVC by Open-Cut – Station 48+35 to Station 80+09	3,174	LF		
10	Install 12-inch C900 PVC by Open-Cut – Station 20+00 to Station 41+02	2,102	LF		
11	Install 12-inch C900 PVC by Open-Cut – Station 80+09 to 89+58	949	LF		
12	Install 3-inch Recycled Water Service – Giorgi Park	1	EA		
13	Install 3-inch Recycled Water Service – Oak Mound Cemetery North	1	EA		
14	Install 3-inch Recycled Water Service – Oak Mound Cemetery South	1	EA		
15	Install 3-inch Recycled Water Service - Healdsburg Elementary	1	EA		

Item No.	Item Description	Estimated Quantity	Unit of Measure	Unit Cost (in figures)	Total Cost (in figures)
16	Install 3-inch Recycled Water Service - Recreation Park	1	EA		
17	Install 4-inch Recycled Water Service – Golf Course	1	EA		
18	Install 12-inch Gate Valve	12	EA		
19	Install 4-inch Gate Valve	1	EA		
20	Install Bulk Fill Station	1	EA		
21	Install Jacking Pit	1	LS		
22	Install Receiving Pit	1	LS		
23	Install 36” Casing by Auger Bore and Jack with Carrier Pipe	162	LF		
24	Install 1" Combination Air Valve Assembly	13	EA		
25	Install Blow Off Assembly	3	EA		
26	Install Backflow Preventer	2	EA		
27	Settlement Monitoring	1	LS		
28	Pressure Testing	1	LS		
29	Asphalt Restoration	1,210	TON		
30	Demolition and Construction Debris Disposal / Recycling	1	LS		
31	Stand-by Time as Directed by the Engineer	8	HRS		
32	Water Crossing over or under a Structure not shown on Plans	10	EA		
33	Over Excavation and Fill with Filter Fabric Wrapped Drain Rock as Directed by the Engineer	50	CY		
34	Sawcut and Remove Portland Cement Concrete Pavement as Directed by the Engineer	200	CY		
35	0.15-Foot Pavement Overlay	52	TON		
36	Pavement Grind	513	SQ YD		

Total Base Bid \$ _____

Written in words _____

The undersigned further agrees to deliver and to complete the same within **412 days**, from the date of issuance, by the Engineer, of instructions to proceed with the work, and within 10 days of the date of mailing of the notice of award, to enter into and execute and provide to the City the necessary contract with the necessary bonds and other required documents, and in case of default in executing the necessary contract within the time fixed by the Instructions to Bidders, the bidder's security accompanying this bid will become the property of and be forfeited to the City of Healdsburg.

Prime Contractor _____

License # _____ Expiration Date: _____

DIR# _____

Name of person submitting bid: _____ Email: _____

The Contractor's license number and expiration date are herein stated under penalty of perjury.

By: _____ Title: _____

Dated this _____ day of _____, 20__

CORPORATION

(Corporate Seal)

Corporate signature

Address: _____

Phone No.: _____

President's signature _____

Secretary's signature _____

Corporation organized under the laws of the State of _____

PARTNERSHIP

Partnership Name: _____

Address: _____

Names of Co-Partners and Addresses: _____

SOLE PROPRIETORSHIP

Names of Individuals and Addresses: _____

NOTE: Sign in proper space above.

SECTION 01200
MEASUREMENT AND PAYMENT

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Methods of measurement and payment for specific items of Work under this Contract. Refer also to General Conditions for administrative aspects of payments by the Owner to the Contractor.

1.02 BID COMPONENTS AND PAYMENT

- A. The Bid Form is comprised of the following components:
 - 1. Lump Sum Work
 - 2. Allowances
 - 3. Unit Price Work
- B. Contractor's cost for "Lump Sum Work" shall cover all Work indicated by the Contract Documents with the exception of cash allowances and specific items of work that are to be paid on a Unit Price basis as indicated on the Bid Form. Lump Sum Work will be paid for on a progress payment basis in accordance with the provisions of the General Conditions.
- C. "Unit Price Work" is Work indicated on the Drawings or specified. The price of each unit of Work is to be defined by the Bidder in the Unit Price Bid Schedule in the Bid Form and shall include all materials, labor, equipment, and incidentals required to complete each Work Item. When actual Work differs from the basis of the Work Item, costs shall be adjusted on a pro-rata basis or other method suited for the particular condition. Work Items established for this Work have been identified on the Bid Form and are described in Paragraph 1.03.

1.03 BID ITEM DESCRIPTIONS

- A. Base and Alternate bid items are presented to indicate major categories of the work for purposes of comparative bid analyses and payment breakdown for monthly progress payments. Bid items are not intended to be exclusive descriptions of work categories and the Contractor shall determine and include in their pricing all materials, labor, and equipment necessary to complete each Bid Item (work phase) as shown and specified in the Contract Documents and as described below, and no additional compensation will be allowed.
- B. MOBILIZATION AND DEMOBILIZATION (BASE BID ITEM NO. 1)
 - 1. Measurement and payment for MOBILIZATION AND DEMOBILIZATION shall be on a Lump Sum basis and shall include furnishing all labor, materials, tools, equipment, and incidentals including, but not limited to, the following:
 - a. Obtaining all bonds and required insurance.
 - b. Obtaining required permits, licenses, agreements and certifications.

- c. Apply for, obtain, and comply with encroachment permits from City of Healdsburg, Sonoma County and Caltrans.
- d. Moving onto the site of all equipment, materials and staff including set up of Contractor's construction office, staging and storage area/yard.
- e. Furnishing and erecting all needed construction facilities, fencing, project signage, and project security.
- f. Perform and submit pre-construction and post-construction photographs and video recording of surface features.
- g. All work as required for the proper performance and completion of the project, including progress schedules and reports, contract meetings, and record drawings.
- h. Base Bid Item 1 shall not exceed 8 percent (8%) of the total bid price. If the amount for Base Bid Item 1 is less than or equal to 6 percent (6%) of the total bid price, seventy-five percent (75%) of the bid item will be paid after mobilization to the construction site, and the remaining twenty-five percent (25%) will be paid after demobilization with the final Progress Payment.
- i. In the event that the Contractor writes in a Mobilization/Demobilization price greater than eight percent (8%) of the total bid price on their Bid Sheet found in the Proposal, the Owner will pay up to 6 percent (6%) of the total bid price after mobilization, with the balance paid after demobilization with the final Progress Payment.
- j. Contractor may apply for payment of mobilization on a percent complete basis as the items included in the Mobilization are being completed.

C. TRAFFIC CONTROL (BASE BID ITEM NO. 2)

- 1. Measurement and payment for TRAFFIC CONTROL shall be on a Lump Sum basis, with partial payments made at the same percentage as total project completion, and shall include furnishing all labor, materials, tools, equipment and incidentals including, but not limited to, the following:
 - a. All submittals.
 - b. Furnishing detailed, engineered traffic control plans for approval by the City of Healdsburg and Sonoma County as required for the open trench and trenchless construction.
 - c. Placing, moving, removing, storing, and maintaining No-Parking signs, barricades, lighted arrow boards, temporary signs, two (2) changeable message signs per closure, temporary traffic signals, and flaggers.
 - d. Establishing and maintaining detours.
 - e. Loading, hauling, removing, covering, and uncovering construction signs.
 - f. Lighting, pedestrian and traffic ramps.
 - g. Temporary striping, k-rails, and pavement markers.
 - h. Traffic plates as necessary.
 - i. All incidentals necessary for worker, pedestrian, bicycle, and traffic protection.

- j. Doing all work necessary to complete the work as shown on the contract documents, to comply with all applicable codes and permits, and no additional compensation will be allowed.

D. STORM WATER POLLUTION PREVENTION (BASE BID ITEM NO. 3)

- 1. Measurement and payment for STORM WATER POLLUTION PREVENTION shall be on a Lump Sum basis with partial payments made at the same percentage as total project completion, and shall include furnishing all labor, materials, tools, equipment, and incidentals including, but not limited to, the following:
 - a. Preparing and submitting a Storm Water Pollution Prevention Plan (SWPPP) including all Permit Registration Documents (PRDs) necessary for the City to file Notice of Intent (NOI).
 - b. Updating the SWPPP as necessary during construction.
 - c. Providing information necessary for the City to file Annual Report and Notice of Termination.
 - d. Participation in storm water construction inspections.
 - e. Use of best management practices during construction to prevent construction related pollutants from entering the storm drain system.
 - f. Maintenance of storm water pollution prevention measures.
 - g. Removal and disposal of storm water pollution measures after completion of work.
 - h. Doing all work necessary to complete the work as shown on the contract documents, to comply with all applicable codes, and no additional compensation will be allowed.

E. SHEETING, SHORING AND BRACING OTHER THAN FOR TRENCHLESS JACKING AND RECEIVING PITS (BASE BID ITEM NO. 4)

- 1. Measurement and payment for SHEETING SHORING AND BRACING shall be on a Lump Sum basis with partial payments made at the same percentage as total project completion, and shall include furnishing all labor, materials, tools, equipment, and incidentals including, but not limited to, the following:
 - a. All submittals.
 - b. Design, installation and removal of sheeting, shoring, and bracing speed shores, plywood, steel plates, and trench boxes.
 - c. Removal of sheeting and shoring where required.
 - d. Other excavation supports in place necessary to complete all work under the Contract in conformance with Federal and California Safety and Health Standards, Sections 6700-6708 of the Labor Code and these Specifications.
 - e. Doing all work necessary to complete the work as shown on the contract documents, to comply with all applicable codes, and no additional compensation will be allowed.

F. DEWATERING (BASE BID ITEM NO. 5)

1. Measurement and payment for DEWATERING shall be on a Lump Sum basis with partial payments made at the same percentage as total project completion, and shall include furnishing all labor, materials, tools, equipment, and incidentals including, but not limited to, the following:
 - a. All submittals.
 - b. Obtaining and complying with permits for the installation and abandonment of extraction wells, including paying all fees.
 - c. Designing, installing, moving, and removing dewatering system including wells, pumps, piping, settling basins and other equipment necessary for a complete dewatering system as needed to manage water and complete the contract work according to these specifications, and all related codes and requirements.
 - d. Doing all work necessary to complete the work as shown on the contract documents, to comply with all applicable codes, and no additional compensation will be allowed.

- G. INSTALL 4-INCH AND 12-INCH C900 PVC BY OPEN CUT (BASE BID ITEM NOS. 6, 7, 8, 9, 10 AND 11)
 1. Measurement and payment for INSTALL 4-INCH AND 12-INCH C900 PVC BY OPEN CUT shall be on a linear foot basis and shall include furnishing all labor, materials, tools, equipment, and incidentals including, but not limited to, the following:
 - a. All submittals.
 - b. Surveying.
 - c. Potholing, probing, locating, and protecting other utilities.
 - d. Saw cutting, grinding, surface demolition and removal of asphalt.
 - e. Trenching, spoil handling, and protection of all existing utilities and service laterals within trench.
 - f. Furnishing and installing polyvinyl chloride pipe, restrained as noted on the plans, of stated diameter and footage, with all required fittings, and appurtenances.
 - g. Removal of existing pipe cap and blow-offs, drain existing pipe, and connections to existing pipe.
 - h. Furnishing and installing warning tape.
 - i. Mechanical restraint systems and thrust blocks.
 - j. Connecting rods.
 - k. Preparing and compacting pipe sub-base; furnishing, placing and compacting pipe bedding; furnishing, placing and compacting trench backfill.
 - l. Restoring landscape and ground cover, resetting valve boxes and monuments, and other surface features disturbed by the work and cleaning.
 - m. Daily cleanup and dust control.
 - n. Geotechnical testing.

- d. Saw cutting, grinding, surface demolition and removal of concrete and asphalt.
- e. Trenching, spoil handling, and protection of all existing utilities and service laterals within trench.
- f. Furnishing and installing gate valves including block, riser, and box.
- g. Furnishing and installing warning tape.
- h. Mechanical restraint systems and thrust blocks.
- i. Preparing and compacting sub-base; furnishing, placing and compacting bedding; furnishing, placing and compacting trench backfill.
- j. Furnishing, placing, and compacting surface restoration, including driveways, sidewalks, curbs, gutters, median, accessibility ramps, and adjusting structures to finish grade.
- k. Geotechnical testing.
- l. Daily cleanup and dust control.
- m. Doing all work necessary to complete the work as shown on the contract documents, to comply with all applicable codes, and no additional compensation will be allowed.

J. INSTALL BULK FILL STATION (BASE BID ITEM NO. 20)

- 1. Measurement and payment for BULK FILL STATION shall be on a Lump Sum basis with partial payments made baes on the schedule of values, and shall include furnishing all labor, materials, tools, equipment, and incidentals including, but not limited to, the following:
 - a. All submittals.
 - b. Surveying.
 - c. Potholing, probing, locating, and protecting other utilities.
 - d. Saw cutting, grinding, surface demolition and removal of concrete and asphalt.
 - e. Trenching, spoil handling, and protection of all existing utilities.
 - f. Furnishing and installing concrete pads, piping and appurtenances, labels and tags, blocking and bracing.
 - g. Furnishing and installing power supply facilities including two 4-inch conduits with pull ropes, ground rod, hand hole, disconnect switch and coordination with City Electric Department.
 - h. Furnishing and installing bulk fill station.
 - i. Furnishing and installing valves, valve risers and boxes.
 - j. Furnishing and installing tracer wire and warning tape.
 - k. Furnishing and installing reinforced concrete pads.
 - l. Mechanical restraint systems and thrust blocks.
 - m. Testing electrical and radio communications.
 - n. Preparing and compacting pipe subbase; furnishing, placing and compacting pipe bedding; furnishing, placing and compacting backfill.

- o. Furnishing, placing, and compacting surface restoration, including sidewalks, pavement, driveways, curbs, gutters, median, and adjusting structures to finish grade.
- p. Restoring landscape and ground cover, resetting valve boxes and monuments, and other surface features disturbed by the work and cleaning.
- q. Geotechnical testing.
- r. Daily cleanup, dust control, testing, and all incidentals required by these Specifications and Drawings.
- s. Doing all work necessary to complete the work as shown on the contract documents, to comply with all applicable codes, and no additional compensation will be allowed.

K. JACKING PIT AND RECEIVING PIT (BASE BID ITEM NOS. 21 AND 22)

- 1. Measurement and payment for JACKING PIT (BASE BID ITEM NO. 21) AND RECEIVING PIT (BASE BID ITEM NO. 22) shall be on a Lump Sum basis with seventy-five percent paid after the bore and jack of the casing pipe commences and remainder after the site has been restored to Caltrans and the Engineer's satisfaction, and shall include furnishing all labor, materials, tools, equipment, and incidentals including, but not limited to, the following:
 - a. All work required by Specification Section 02260.
 - b. All submittals.
 - c. Preparation of the work area, including site clearing.
 - d. Tree removal and trimming.
 - e. Potholing, probing, locating, and protecting existing utilities.
 - f. Surveying.
 - g. Saw cutting, grinding, surface demolition and removal of concrete and asphalt.
 - h. Excavating and spoil handling.
 - i. Design, procurement, installation, and removal of sheeting, shoring, and bracing for pit construction.
 - j. Pit invert preparation.
 - k. Installation of safety and monitoring equipment.
 - l. Daily site cleaning, lighting, ventilation, temporary fencing and barriers, power, dust control, and noise and vibration control and monitoring.
 - m. Grouting and stabilizing earth adjacent to the pit as required to meet pit performance requirements.
 - n. Furnishing, placing and compacting pit backfill.
 - o. Surface restoration of all public and private improvements including repair or replacing curb and gutter, drainage installations, pre-construction surface drainage flow paths, concrete paving, temporary and permanent paving, and pavement markers and striping.
 - p. Testing quality control, and field inspections.

- q. Geotechnical testing.
 - r. Furnishing and installing thrust blocks for carrier pipe.
 - s. Restoring landscape and ground cover, resetting monuments, fences and guard rails, and other surface features disturbed within the work area, and cleaning.
 - t. All incidentals required by the Specifications and Drawings.
 - u. All other work and procedures necessary to comply with Federal and California Safety and Health Standards, Sections 6700-6708 of the Labor Code, the Cal/OSHA Tunnel Classification, Caltrans Encroachment Permit, and these Specifications.
2. Dewatering will be paid for under separate bid item.
- L. INSTALL BORE AND JACK CASING WITH CARRIER PIPE (BASE BID ITEM NO. 23)
- 1. Measurement and payment for BORE AND JACK CASING WITH CARRIER PIPE shall be on a Linear Foot basis, measured by length of installed casing pipe by Horizontal Auger Boring, and shall include furnishing all labor, materials, tools, equipment, and incidentals including, but not limited to, the following:
 - a. All work required by Specification Sections 02401, 02436, and 02446.
 - b. All work required by Specification Sections 02449, 03600, 15145, and 15996 as it pertains to installation of the carrier pipe within trenchless casing pipe.
 - c. All submittals.
 - d. Surveying.
 - e. Excavation and spoil handling.
 - f. Installation of safety and monitoring equipment in pits.
 - g. Furnishing and installing steel casing.
 - h. Furnishing and installing contact grouting.
 - i. Furnishing and installing carrier pipe supports.
 - j. Preparation of the casing pipe for installation of carrier pipe.
 - k. Furnish and install carrier pipe within casing on carrier pipe supports.
 - l. Filling, testing, inspecting and flushing the pipe system.
 - m. Furnishing and installing backfill grout in annular space between the carrier pipe and casing pipe.
 - n. Daily cleanup, dust control, quality control, testing, and all incidentals required by these Specifications and Drawings.
 - o. All other work and procedures necessary to comply with Federal and California Safety and Health Standards, Sections 6700-6708 of the Labor Code, Cal/OSHA Tunnel Classification, Caltrans Encroachment Permit, all other applicable codes and regulations, and these Specifications. No additional compensation will be allowed.
- M. 1-INCH COMBINATION AIR VALVE ASSEMBLY (BASE BID ITEM NO. 24)
- 1. Measurement and payment for 1-INCH COMBINATION AIR VALVE ASSEMBLY shall be per each valve assembly installed and includes furnishing all labor,

materials, tools, equipment, and incidentals including, but not limited to, the following:

- a. All submittals.
- b. Surveying.
- c. Potholing, probing, locating, and protecting existing utilities.
- d. Saw cutting, grinding, surface demolition and removal of concrete and asphalt.
- e. Trenching, spoil handling, and protection of all existing utilities.
- f. Furnishing and installing combination air valve assembly including air release valve, box enclosure, pedestal cabinet, suction screen, drain rock, piping and appurtenances, labels and tags, blocking and bracing.
- g. Furnishing and installing tee and valve or tapping saddle and corporation stop, pipe, and valve.
- h. Tapping pipe.
- i. Furnishing and installing tracer wire and warning tape.
- j. Mechanical restraint systems and thrust blocks.
- k. Testing and inspection.
- l. Geotechnical testing.
- m. Preparing and compacting pipe sub-base; furnishing, placing and compacting pipe bedding; furnishing, placing and compacting backfill.
- n. Furnishing, placing, and compacting surface restoration, including sidewalks, pavement, driveways, curbs, gutters, median, and adjusting structures to finish grade.
- o. Restoring landscape and ground cover, resetting valve boxes and monuments, fences, and other surface features disturbed by the work and cleaning.
- p. Daily cleanup, dust control, testing, and all incidentals required by these Specifications and City Standard Detail WL 15.
- q. Doing all work necessary to complete the work as shown on the contract documents, to comply with all applicable codes, and no additional compensation will be allowed.

N. BLOW OFF ASSEMBLY (BASE BID ITEM NO. 25)

1. Measurement and payment for BLOW OFF ASSEMBLY shall be per each blow off installed and shall include furnishing all labor, materials, tools, equipment, incidentals, demolition, restoration, and for doing all work necessary to complete the work as shown on the contract documents, to comply with all applicable codes, and no additional compensation will be allowed.
 - a. All Submittals.
 - b. Surveying.
 - c. Potholing, probing, locating, and protecting existing utilities.
 - d. Saw cutting, grinding, surface demolition and removal of concrete and asphalt.

- e. Excavation, spoil handling, and protection of all existing utilities.
 - f. Furnishing and installing tee, gate valve including block, riser, box, and valve nut extension.
 - g. Furnishing and installing pipe, riser, concrete collar, and box.
 - h. Furnishing, placing and compacting backfill.
 - i. Furnishing, placing, and compacting surface restoration, including sidewalks, pavement, driveways, curbs, gutters, median, and adjusting structures to finish grade.
 - j. Restoring landscape and ground cover, resetting valve boxes and monuments, replacing fences, and other surface features disturbed by the work and cleaning.
 - k. Testing and inspection.
 - l. Geotechnical testing.
 - m. Daily cleanup, dust control, testing, and all incidentals required by these Specifications and City Standard Detail WL 14.
 - n. Doing all work necessary to complete the work as shown on the contract documents, to comply with all applicable codes, and no additional compensation will be allowed.
- O. INSTALL BACKFLOW PREVENTER (BASE BID ITEM NO. 26)
- 1. Measurement and payment for BACKFLOW PREVENTOR shall be per each backflow preventor installed and shall include furnishing all labor, materials, tools, equipment, incidentals, demolition, off-haul, restoration, and for doing all work necessary to complete the work as shown on the contract documents, to comply with all applicable codes, and no additional compensation will be allowed.
 - a. All Submittals.
 - b. Surveying.
 - c. Potholing, probing, locating, and protecting existing utilities.
 - d. Saw cutting, grinding, surface demolition and removal of concrete.
 - e. Excavation, spoil handling, and protection of all existing utilities.
 - f. Furnishing and installing backflow preventer, ball valves, pipe unions, threaded bushings, bends and other fittings.
 - g. Furnishing, placing and compacting backfill.
 - h. Furnishing, placing, and compacting surface restoration, including sidewalks, pavement, driveways, curbs, gutters, median, and adjusting structures to finish grade.
 - i. Restoring landscape and ground cover, resetting valve boxes and monuments, and other surface features disturbed by the work and cleaning.
 - j. Performing tie-ins.
 - k. Testing and inspection.
 - l. Daily cleanup, dust control, testing, and all incidentals required by these Specifications and Drawings.

- m. Doing all work necessary to complete the work as shown on the contract documents, to comply with all applicable codes, and no additional compensation will be allowed.

P. SETTLEMENT MONITORING (BASE BID ITEM NO. 27)

- 1. Measurement and payment for SETTLEMENT MONITORING shall be per each survey period and shall include furnishing all labor, materials, tools, equipment, and incidentals including, but not limited to, the following:
 - a. All equipment, materials, and personnel required to perform the work in accordance with Section 02306 of the Contract Documents.
 - b. Furnishing and installing geotechnical instrumentation.
 - c. Surveying.
 - d. Establishing baseline readings.
 - e. Properly maintaining instrumentation.
 - f. Survey monitoring of instruments per the required intervals and duration.
 - g. Reporting of readings and interpretations.
 - h. Replacement of damaged instruments.
 - i. Removal of instrumentation and site restoration in accordance with the Specifications.
 - j. All other work and procedures necessary to comply with the Caltrans Encroachment Permit and these Specifications.

Q. PRESSURE TESTING (BASE BID ITEM NO. 28)

- 1. Measurement and payment for PRESSURE TESTING shall be on a Lump Sum basis with partial payments made at the same percentage as the length of pipe pressure tested to total pipe length, and shall include furnishing all labor, materials, tools, equipment, and incidentals including, but not limited to, the following:
 - a. All Submittals.
 - b. Filling and testing the pipe system.
 - c. Legal disposal of water into City sewer at a maximum flow rate of 250 gpm, if required.
 - d. Doing all work necessary to complete the work as shown on the contract documents, to comply with all applicable codes, and no additional compensation will be allowed.

R. ASPHALT RESTORATION (BASE BID ITEM NO. 29)

- 1. Measurement and payment for ASPHALT RESTORATION shall be on a unit price PER TON basis and shall include furnishing all labor, materials, tools, equipment, and incidentals required to satisfy the City of Healdsburg and Sonoma County Trench Cut Policy, the contract plans and these specifications including, but not limited to, the following:
 - a. All submittals.

- b. Protecting existing striping.
 - c. Applying tack coat to all surfaces to be covered by hot mix asphalt.
 - d. Placement and compaction of hot mix asphalt pavement.
 - e. Replacing all pavement striping, markers and markings removed or damaged by the Contractor's activities.
 - f. Testing.
 - g. Doing all work necessary to complete the work as shown on the contract documents, to comply with all applicable codes, and no additional compensation will be allowed.
- S. DEMOLITION AND CONSTRUCTION DEBRIS DISPOSAL / RECYCLING (BASE BID ITEM NO. 30)
- 1. Measurement and payment for DEMOLITION AND CONSTRUCTION DEBRIS DISPOSAL / RECYCLING shall be on a Lump Sum basis with partial payments made at the same percentage as total project completion, and shall include furnishing all labor, materials, and incidentals including, but not limited to, the following:
 - a. Proper disposal and recycling of construction debris in compliance with City ordinances, the contract documents and all applicable codes.
 - b. Preparing, submitting and obtaining acceptance from the Engineer for monthly Recycling of Disposal Materials Reports in compliance with City ordinances, the contract documents, and all applicable codes, and no additional compensation will be allowed.
- T. STAND-BY TIME AS DIRECTED BY THE ENGINEER (BASE BID ITEM NO. 31)
- 1. Measurement and payment for STAND-BY TIME AS DIRECTED BY THE ENGINEER shall be on a unit price PER HOUR basis, and shall include furnishing all labor, materials, and incidentals including, but not limited to, the following:
 - a. As described in the contract documents, the Oak Mound Cemetery may conduct interment ceremonies with minimal notice provided. If the Contractor is actively working within the cemetery when a ceremony is to occur, the Contractor shall temporarily vacate the cemetery property. The Engineer will provide a number of work hours that can be paid to the Contractor to compensate the Contractor for this unscheduled stand-by time and no additional compensation will be allowed.
- U. WATER CROSSING OVER OR UNDER A STRUCTURE NOT SHOWN ON THE PLANS (BASE BID ITEM NO. 32)
- 1. Measurement and payment for WATER CROSSING OVER OR UNDER A STRUCTURE NOT SHOWN ON THE PLANS shall per each crossing installed. Based on available information from records search and limited field investigations, the contract drawings show the existing utilities that cross the proposed recycled water alignment. Where the Contractor's potholing determines that the proposed vertical alignment is in direct conflict with the potholed utility, the Contractor shall install a water main crossing over the structure per City Standard Detail WL 11, or a water main crossing under the structure per City Standard

Detail WL 12. The Contractor's proposed alignment must be accepted by the Engineer before commencing work and requesting payment for this bid item.

2. This bid item shall include furnishing all labor, materials, tools, equipment, and incidentals including, but not limited to, the following:
 - a. All submittals.
 - b. Surveying.
 - c. Ductile iron fittings, 45-degrees or less.
 - d. Thrust blocks.
 - e. Retainer glands restraint system.
 - f. Tie rods.
 - g. Stainless steel hardware.
 - h. The trenching, excavation, backfill, compaction, pipe installation required in addition to those included in Bid Items 6 and 7.

V. OVER EXCAVATION AND FILL WITH FILTER FABRIC WRAPPED DRAIN ROCK AS DIRECTED BY THE ENGINEER (BASE BID ITEM NO. 33)

1. Measurement and payment for OVER EXCAVATION AND FILL WITH FILTER FABRIC WRAPPED DRAIN ROCK AS DIRECTED BY THE ENGINEER shall be on a unit price PER CUBIC YARD basis. The Contractor shall request payment for the bid item when the Engineer and the Contractor's geotechnical engineer state that the trench bottom is unsuitable. The bid item shall include furnishing all labor, materials, tools, equipment, and incidentals required to stabilize the trench bottom while satisfying the contract plans and these specifications including, but not limited to, the following:
 - a. All submittals.
 - b. 3/4-inch drain rock.
 - c. Geotextile fabric.
 - d. Geotechnical Testing.
 - e. Excavation and shoring below 6-inches below the pipe bottom, as other excavation and shoring are included in other bid items.
 - f. Doing all work necessary to complete the work as shown on the contract documents, to comply with all applicable codes, and no additional compensation will be allowed.

W. SAWCUT AND REMOVE PORTLAND CEMENT CONCRETE PAVEMENT AS DIRECTED BY THE ENGINEER (BASE BID ITEM NO. 34)

1. Measurement and payment for SAWCUT AND REMOVE PORTLAND CEMENT CONCRETE PAVEMENT AS DIRECTED BY THE ENGINEER shall be on a unit price PER CUBIC YARD basis. The Contractor shall request payment for the bid item when the Engineer states that Portland Cement Concrete (PCC) is under the asphalt pavement within the pipe trench width. The bid item shall include furnishing all labor, materials, tools, equipment, and incidentals required to stabilize the trench bottom while satisfying the contract plans and these specifications including, but not limited to, the following:

- a. All submittals.
 - b. Sawcutting the PCC.
 - c. Removal of the PCC.
 - d. Doing all work necessary to complete the work as shown on the contract documents, to comply with all applicable codes, and no additional compensation will be allowed.
- X. 0.15-FOOT PAVEMENT OVERLAY (BID ITEM 35)
- 1. Measurement and payment for 0.15-FOOT PAVEMENT OVERLAY shall be on a unit price PER TON basis and shall include furnishing all labor, materials, tools, equipment, and incidentals required to satisfy the City of Healdsburg and Sonoma County Trench Cut Policy, the contract plans and these specifications including, but not limited to, the following:
 - a. All submittals.
 - b. Protecting existing striping.
 - c. Applying tack coat to all surfaces to be covered by hot mix asphalt.
 - d. Placement and compaction of hot mix asphalt pavement.
 - e. Replacing all pavement striping, markers and markings removed or damaged by the Contractor's activities.
 - f. Testing.
 - g. Doing all work necessary to complete the work as shown on the contract documents, to comply with all applicable codes, and no additional compensation will be allowed.
- Y. PAVEMENT GRIND (BID ITEM 36)
- 1. Measurement and payment for PAVEMENT GRIND shall be on a unit price PER SQUARE YARD basis and shall include furnishing all labor, materials, tools, equipment, and incidentals required to satisfy the City of Healdsburg and Sonoma County Trench Cut Policy, the contract plans and these specifications including, but not limited to, the following:
 - a. All submittals.
 - b. Removing or protecting existing striping.
 - c. Removing temporary asphalt.
 - d. Grinding and/or removing existing asphalt pavement to the required limits.
 - e. Doing all work necessary to complete the work as shown on the contract documents, to comply with all applicable codes, and no additional compensation will be allowed.

1.04 SCHEDULE OF VALUES

- A. A Schedule of Values shall be prepared for the Bulk Fill Station.
- B. At the pre-construction meeting, submit a preliminary Schedule of Values to the Owner's Representative for review. Incorporate any review comments from the Owner's

Representative, and submit a final Schedule of Values at least 21 days prior to submitting the first Application for Payment for this bid item.

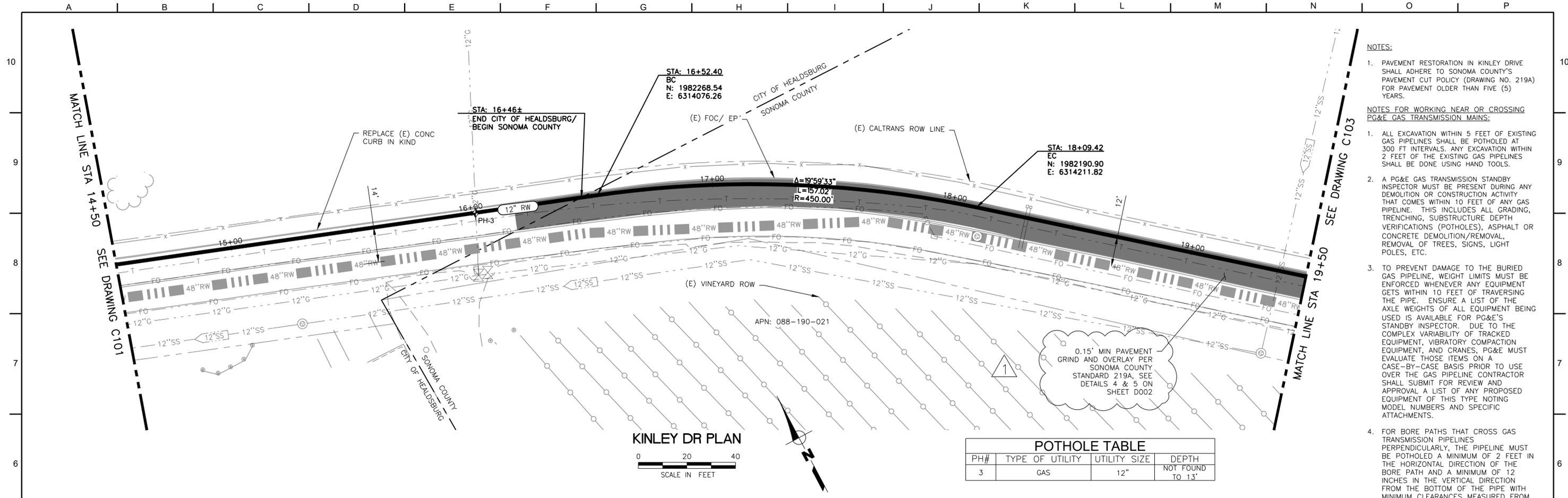
- C. The Schedule of Values shall assign a fair, reasonable and equitable dollar value for each activity on the Contractor's construction schedule. The Schedule of Values shall include anticipated progress payments for each item in the bid schedule through the final payment. In addition, a detailed breakdown of lump sum prices shall be included in the Schedule of Values.
- D. The Schedule of Values shall specifically indicate installed cost for materials and equipment for the bid item.
- E. Each activity's assigned value shall consist of labor, equipment and materials cost and a prorata contribution to overhead and profit. Breakdown shall be so organized as to facilitate assessment of work and payment of subcontractors.
- F. The sum of the assigned values shall equal the lump sum price of the activity.
- G. If, in the opinion of the Owner's Representative or Owner, the Schedule of Values is not balanced, provide documentation substantiating the cost allocations of those activities believed to be unbalanced. Cost allocation will be considered unbalanced if an activity on the construction schedule has been assigned a disproportionate allocation of labor, direct, or overhead and profit costs which result in progress payment request(s) which would create a condition where insufficient funds are available to complete the unfinished work. Upon request by Owner, support values shall be given with data that will substantiate their accuracy. Upon Owner's request, submit additional detailed cost information.
- H. Upon acceptance of the Schedule of Values, it shall be used as a basis for processing all progress payment requests for the Bulk Fill Station bid item.

1.05 PROGRESS PAYMENT REQUESTS

- A. Submit Progress Payment Requests during the course of the project in conformance with the General Condition.
- B. Submit record drawings at completion of the project. The demobilization costs will not be paid until record drawings have been submitted and deemed complete by the Engineer.

END OF SECTION

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- NOTES:**
- PAVEMENT RESTORATION IN KINLEY DRIVE SHALL ADHERE TO SONOMA COUNTY'S PAVEMENT CUT POLICY (DRAWING NO. 219A) FOR PAVEMENT OLDER THAN FIVE (5) YEARS.
- NOTES FOR WORKING NEAR OR CROSSING PG&E GAS TRANSMISSION MAINS:**
- ALL EXCAVATION WITHIN 5 FEET OF EXISTING GAS PIPELINES SHALL BE POTHOLED AT 300 FT INTERVALS. ANY EXCAVATION WITHIN 2 FEET OF THE EXISTING GAS PIPELINES SHALL BE DONE USING HAND TOOLS.
 - A PG&E GAS TRANSMISSION STANDBY INSPECTOR MUST BE PRESENT DURING ANY DEMOLITION OR CONSTRUCTION ACTIVITY THAT COMES WITHIN 10 FEET OF ANY GAS PIPELINE. THIS INCLUDES ALL GRADING, TRENCHING, SUBSTRUCTURE DEPTH VERIFICATIONS (POTHOLES), ASPHALT OR CONCRETE DEMOLITION/REMOVAL, REMOVAL OF TREES, SIGNS, LIGHT POLES, ETC.
 - TO PREVENT DAMAGE TO THE BURIED GAS PIPELINE, WEIGHT LIMITS MUST BE ENFORCED WHENEVER ANY EQUIPMENT GETS WITHIN 10 FEET OF TRAVERSING THE PIPE. ENSURE A LIST OF THE AXLE WEIGHTS OF ALL EQUIPMENT BEING USED IS AVAILABLE FOR PG&E'S STANDBY INSPECTOR. DUE TO THE COMPLEX VARIABILITY OF TRACKED EQUIPMENT, VIBRATORY COMPACTION EQUIPMENT, AND CRANES, PG&E MUST EVALUATE THOSE ITEMS ON A CASE-BY-CASE BASIS PRIOR TO USE OVER THE GAS PIPELINE CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL A LIST OF ANY PROPOSED EQUIPMENT OF THIS TYPE NOTING MODEL NUMBERS AND SPECIFIC ATTACHMENTS.
 - FOR BORE PATHS THAT CROSS GAS TRANSMISSION PIPELINES PERPENDICULARLY, THE PIPELINE MUST BE POTHOLED A MINIMUM OF 2 FEET IN THE HORIZONTAL DIRECTION OF THE BORE PATH AND A MINIMUM OF 12 INCHES IN THE VERTICAL DIRECTION FROM THE BOTTOM OF THE PIPE WITH MINIMUM CLEARANCES MEASURED FROM THE EDGE OF THE PIPE IN BOTH DIRECTIONS. STANDBY PERSONNEL MUST WATCH THE LOCATOR TRACE (AND EVERY REAM PASS) THE PATH OF THE BORE AS IT APPROACHES THE PIPELINE AND VISUALLY MONITOR THE POTHOLE (WITH THE EXPOSED TRANSMISSION PIPE) AS THE BORE TRAVERSES THE PIPELINE TO ENSURE ADEQUATE CLEARANCE WITH THE PIPELINE. THE POTHOLE WIDTH MUST ACCOUNT FOR THE INACCURACY OF THE LOCATING EQUIPMENT.

KINLEY DR PLAN



POTHOLE TABLE			
PH#	TYPE OF UTILITY	UTILITY SIZE	DEPTH
3	GAS	12"	NOT FOUND TO 13'

INSTALL 500 LF OF 12" C900 DR-18 PVC PURPLE RECYCLED WATER MAIN (4' MIN COVER, UNO)



PROFILE

SCALE: H:1"=20', V:1"=4'

BID SUBMITTAL



QC REVIEW: **STAN VANDEBERGH**
DATE: **9/2023**

THIS LINE IS 1 INCH AT FULL SCALE IF NOT SCALE ACCORDINGLY

SCALE: **AS SHOWN**
DRAWN BY: **ER**
DESIGNED BY: **SMG/RSR**
PROJ. MGR.: **RSR**

No.	ZONE	REVISIONS	BY	DATE

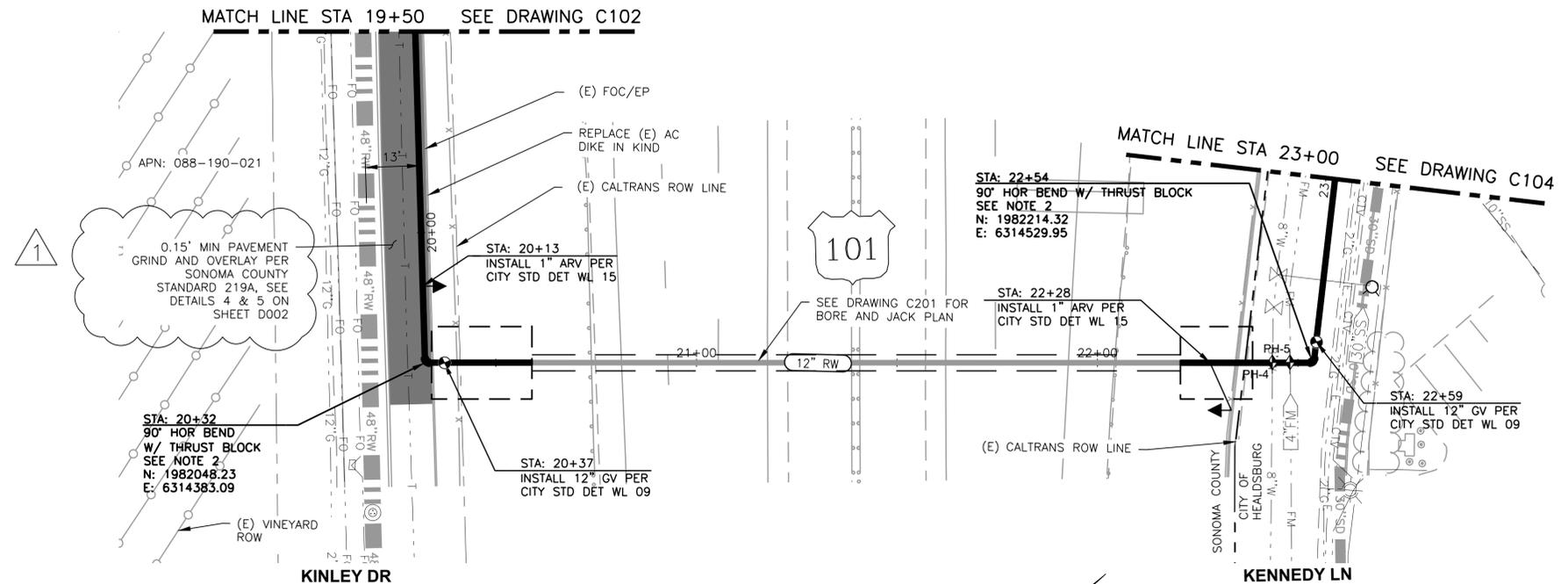
ADDENDUM #2
RR 2/2024



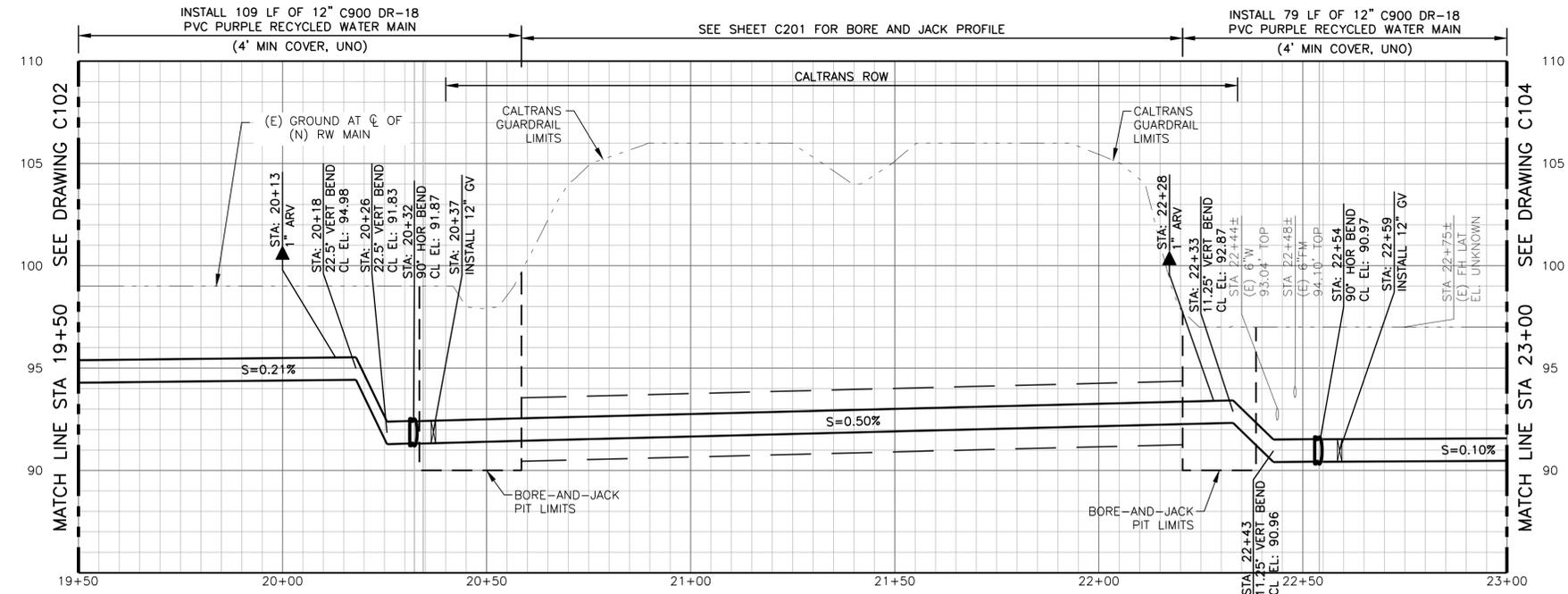
CITY OF HEALDSBURG
MUNICIPAL RECYCLED WATER PIPELINE
PLAN VIEW STA 14+50 TO STA 19+50

JOB NUMBER
700-30-22-16
DRAWING NUMBER
C102
SHEET NUMBER
7 OF **43**
REVISION

NOTES:
 1. PAVEMENT RESTORATION IN KINLEY DRIVE SHALL ADHERE TO SONOMA COUNTY'S PAVEMENT CUT POLICY (DRAWING NO. 219A) FOR PAVEMENT OLDER THAN FIVE (5) YEARS.



POTHOLE TABLE			
PH#	TYPE OF UTILITY	UTILITY SIZE	DEPTH
4	WATER	6"	48"
5	SEWER	6"	35"



PROFILE
 SCALE: H:1"=20', V:1"=4'

BID SUBMITTAL



QC REVIEW: STAN VANDEBERGH
 DATE: 9/2023

THIS LINE IS 1 INCH AT FULL SCALE IF NOT SCALE ACCORDINGLY	
SCALE: AS SHOWN	
DRAWN BY: ER	
DESIGNED BY: SMG/RSR	
PROJ. MGR.: RSR	
ADDENDUM #2	RR 2/2024
REVISIONS	BY DATE
No.	ZONE



CITY OF HEALDSBURG
 MUNICIPAL RECYCLED WATER PIPELINE
 PLAN VIEW STA 19+50 TO STA 23+00

JOB NUMBER 700-30-22-16
DRAWING NUMBER C103
SHEET NUMBER 8 OF 43
REVISION