DOCUMENT 090

ADDENDA

ADDENDUM NUMBER 8

DATE: [3/25/2026]

PROJECT: **Ke-nek Water Treatment Plant and Water Main**

PROJECT NUMBER: **CA 21-F05**

OWNER: **Yurok Tribe**

ENGINEER: Maxwell Moore

TO: Prospective Bidders

This Addendum forms a part of the Contract Documents and modifies the Bidding Documents dated 12/16/2025, Addendum Number 1 issued 12/16/2025, Addendum Number 2 issued 1/26/2026, Addendum Number 3 issued 2/9/2026, Addendum Number 4 issued 3/3/2026, Addendum Number 5 issued 3/12/2026, Addendum Number 6 issued 3/19/2026, and Addendum Number 7 issued 3/24/2026 with amendments and additions noted below.

Acknowledge receipt of this Addendum in the space provided in the Bid Form. Failure to do so may disqualify the Bidder.

This Addendum consists of 8 pages and 8 pages of attachments.

Revised Materials

Document	Document Title	Issue Date
22 11 00	Facility Water Distribution	[3/25/2026]

CHANGES TO THE PROJECT MANUAL

Document 22 11 00 – FACILITY WATER DISTRIBUTION

2.16 – INFILTRATION GALLERY PUMP has been removed. This was an erroneous inclusion.

2.17 – BOOSTER PUMP has been edited with additional description points, highlighted.

“

A. Manufacturer:
   1. Goulds 7GB10 WaterGun Booster Pump
      a. 16 Stage, 1hp

B. Description:
   1. Delivers 10+ GPM at 300 ft of head
      a. Operates within 85% of peak efficiency at this duty point
   2. To operate at 3500 rpm
   3. Single Phase, 60 hz, 115 V, 1 horsepower
   4. 1” NPT ports for suction and discharge
   5. Cast Iron Motor Adapter
   6. BUNA Mechanical Seal
   7. Stainless Steel Shaft Coupling
   8. 304 Stainless Steel Bowl
   9. Cast Iron Discharge Head
   10. Stainless Steel Hex Shaft
   11. 304 Stainless Steel Casing

“

CLARIFICATIONS

Question:

Spec section 22 11 00 2.16 calls for an infiltration gallery pump. I don't see this pump anywhere on the plans or bid schedule. Please advise.

Answer:

Erroneous inclusion in specs, an infiltration gallery pump is not to be included in work or bid. Now removed from spec section 22 11 00.

Question:

From a pump supplier: The Goulds 7GB10 pump is missing some info for full quote. Need to know the materials needed, there is cast iron construction with a Carbon/ceramic/Buna seal and there is a stainless steel construction option and the seal can be changed as well if needed to something else like Viton.

Answer:

Additional description has been added to the booster pump specification in 22 11 00.

Question:

The specs have a section 33 21 13 for community water supply wells. The plans do not reference any well drilling or associated activity. Please advise if this relevant to this job or not.

Answer:

Erroneous inclusion in specs, an infiltration gallery pump is not to be included in work or bid.

Question:

Sheet C303 note 2 calls out 1 2" communication conduit in UGC trench. UGC does not continue on any other page after E303 and abruptly terminates into a waterline. Should this be the UGE trench and how does it terminate?

Answer:

The noted conduit joins and is routed with line F2 with trench profile as shown in 2/C501, and with line F3 as shown in trench detail 1/C504 and 2/C504. It is to terminate at the Goulds booster pumps and should be signaled by the float switches at the equalization tanks. This control schema is stated in note 3 of detail 2/C306.

Please note that addenda 6 has corrected this to be a 1” conduit, to match as specified in the cable and conduit schedule provided in addenda 5.

Question:

Addendum 6 changes line F to be laid as 1" conduit. Line F in addendum 5 plans deleted all communications conduits and only had 4" and 5" electric conduits with the cable being installed by the utility company. It is unclear to bidders what conduits are for communications or power to each site along the trench path. It is also unclear what conductors are going in each conduit and who's responsibility it is to install those. It is currently assumed that we have to provide only empty conduits. Please confirm.

Answer:

The following statement from the above is incorrect:

> *"Line F in addendum 5 plans deleted all communications conduits and only had 4" and 5" electric conduits with the cable being installed by the utility company"*

We removed the "4-inch conduit and cable" line item but kept the "2-inch conduit and cable" line item, in addition to adding conduit line items (72,73, and 74) specifically noted as "no cable". Line item 75 'Tank Site, Conduit and Cable' was added to contain the cable and conduit specified on sheet E107 that is not within line items 14, 72, 73, or 74.

The 2" conduit and cable was then corrected to 1" in addenda 6.

From addenda 5, only line items 72, 73, and 74, stated as " X-inch conduit, no cable" are intended to be installed as conduit-only for future PG+E use.

Other instances of cable and conduit, that are *not* specified as "No cable" in the bid sheet are intended to be installed with functional power or communications.

Line 'F' and the above conduit for PG&E use are separate. Line 'F' is 2 lines - a water transmission line and a conduit with signal wire. They've been grouped together in line 'F' as a majority of their run is shared and was thought to be easier for contractors to combine the installation of the two.

Question:

Please provide a detail or description of the access doors for the two PRV vaults on C507 and the altitude valve vault on C302. Depths for all of the vaults are also typically provided so that we know what size to quote.

Answer:

Lids shall be Traffic-rated and galvanized as noted on 2/C507. Refer to minimum pipe depth presented in trench details (30" typ.) and the 12" spacing presented from bottom of pipe to floor of vault.

Question:

There is no bid item for the 36" x 12' deep inlet structure on A208 detail 2.

Answer:

Please price this item and work within line item 63, Sand Filter Basins.

Question:

Is the asphalt primer required? It is shown in the paving spec but this has not been done in Humboldt in a long time and will increase costs.

Answer:

No asphalt primer required, but please make note of the Tack Coat shown on detail 3/C503. All paving is to be in accordance with Caltrans specifications.

Question:

What is the clear opening of the hatch on A205?

Answer:

Please refine in submittal stage. 5’ x 5’ or what a competent and reasonable person would expect for entry.

Question:

Is there a particular make or model LMI chemical feed pump you would like to use? The drawings do not show much detail for the LMI pump connections or chemical feed tank.

Answer:

In addenda 4, the specification for the chemical pump was changed. It is now specified for a Stenner 85MJH2A1STAA

Question:

What size and rating should the pull box on C302 be? The note says to see utility co. specification. Please provide a specification number.

Answer:

Not available to IHS at this time, PG&E will specify in utility prepared plan when ready.

Question:

C302 note 3 says 5" conduit to leave trench and head toward tank. Where does this line terminate and how? Please provide specification number for this.

Answer:

This is to be empty conduit, stubbed for future connection. PG&E is to provide specifications when their utility plan is prepared.

Question:

C105 shows a 4- and 5-inch conduit going up the road. Please confirm these are primary voltage and confirm minimum cover required for 12kv lines.

Answer:

PG&E to provide guidance in their yet-to-be-provided utility plan.

Question:

Drawings say to provide transformer pads per utility specification. PGE transformers have specific numbers which correlate to specific pad dimensions and details. Please provide the specific pad detail for the utility transformer locations on C102 and C105.

Answer:

This specification has been provided to IHS ahead of the full PG&E Utility plan. The transformer pad being requested is

Style-DF-LB Box, 50” x 52”

Page 13 of 28 in PG&E Document 051122

Page 775 of 1050 of PG&E Greenbook

Question:

C106, C201, C202, C203 line F2 and F3 calls out 2" conduit that is not pictured anywhere. Please advise what this line is and where it begins and ends.

Answer:

Please refer to the cable and conduit schedule provided on sheet E107 in addenda 5 and note 3 on detail 2/C306. It brings the float switch triggers from the equalization tank to the booster pumps.

E107 states it is to be a 1” Conduit, 2-#14 AWG with note: “The float shall complete a 24 VDC circuit that energizes a relay coil local to the control panel”.

Question:

Specification 260533 does not clarify types of conduits for underground, indoor, outdoor, or changes to these conduits when subject to physical damage. Is EMT acceptable for exterior locations & tanks? Or is GRS required? Within the building and the sand filter building is GRS required or is EMT acceptable?

Answer:

GRS is required for above-ground outdoor applications. EMT is allowable for indoor and underground applications.

Question:

There are no specifications for electrical integration & Instrumentation. Are there any instrumentation or integration at these sites (PLC's, control system, Scada)? If there is please provide a P&ID list.

Answer:

Further electrical materials are not being prepared. Please bid the project as-is.

Question:

Is there a spec for wire sizing for the float switch circuit between the McCoy treatment facility and the equalization tank? As this distance is substantial, voltage drop will need to be considered.

Answer:

Please refer to the notes on sheet E107 –

"The float shall complete a 24VDC circuit that energizes a relay coil local to the control panel"

Question:

Please provide invert elevations for the 10" drain lines to the dissipators

Answer:

Absolute inverts are not required for these drains and dissipators, only maintaining a 2% slope from the connecting drain lines.

Question:

There are no controls or electrical drawings or interconnection diagrams for the McCoy site. There is also no measurement and payment for the electrical at the McCoy site. Please provide a complete set of electrical drawings so that we can appropriately bid.

Answer:

No further electrical materials are being provided at this point, and we are asking bidders to provide bids for the project as-is. The integration with the McCoy site was added late into the project. The existing controller and pump system being renovated uses a float-switch triggered pump with controller and hand-off-auto switch. Contractors should expect to find a pump controller capable of 2 pump control and an installed hand-off-auto switch for use with the contractor-supplied booster pumps and float switch trigger from the equalization tank.

No more alterations to the bid form are planned at this point, please prepare bids as-is.

Question:

The 10" drain line on C301 scales to 130ft but the sheet says 160 ft each side which would total 320ft, and the bid quantity says 335ft. Is the sheet just out of scale or what is going on?

Answer:

The 10” drain line shown has a break line to indicate it is not to scale. Please bid the quantity as-is on the bid form.

Question:

Will the site be paved before pipeline excavation work is expected to begin?

Answer:

This is assumed to relate to the ongoing work referenced on sheet C105. This work is expected to complete before paving occurs.

END OF DOCUMENT

SECTION 22 11 00

FACILITY WATER DISTRIBUTION

PART 1 GENERAL

1.1 SUMMARY

A. Section Includes:
1. Piping
2. Valves
3. Water Meters
4. Pipe hangers and supports
5. Pressure gages
6. Flow control valves
7. Relief valves
8. Hose bibs and Sample Taps
9. Exhaust Fans
10. Countertop
11. Window
12. Chemical Pumps
13. Booster Pumps

B. Related Sections:
1. Section 03 30 00 - Cast-In-Place Concrete
2. Section 08 71 00 - Door Hardware
3. Section 22 05 03 - Plumbing Piping
4. Section 22 05 53 - Identification for Plumbing Piping and Equipment
5. Section 26 05 03 - Equipment Wiring Connections
6. Section 26 05 19 – Electrical conductors and Cables
7. Section 26 05 26 – Grounding for Electrical Systems
8. Section 26 05 33 – Conduit and Boxes for Electrical Systems
9. Section 33 13 00 - Disinfecting of Water Utility Distribution
10. Section 33 21 13 – Community Supply Wells

1.2 REFERENCES

A. American Society of Mechanical Engineers:
1. ASME B40.1 - Gauges - Pressure Indicating Dial Type - Elastic Element.

B. American Society of Sanitary Engineering:
1. ASSE 1011 - Performance Requirements for Hose Connection Vacuum Breakers.

C. ASTM International:
1. ASTM F708 - Standard Practice for Design and Installation of Rigid Pipe Hangers.

D. American Water Works Association:
1. AWWA C701 - Cold-Water Meters - Turbine Type, for Customer Service.

2. AWWA C702 - Cold-Water Meters - Compound Type.
3. AWWA M6 - Water Meters - Selection, Installation, Testing, and Maintenance.

E. Manufacturers Standardization Society of the Valve and Fittings Industry:
1. MSS SP 80 - Bronze Gate, Globe, Angle and Check Valves.
2. MSS SP 85 - Cast Iron Globe & Angle Valves, Flanged and Threaded.
3. MSS SP 110 - Ball Valves Threaded, Socket-Welding, Solder Joint, Grooved and Flared Ends.

F. National Electrical Manufacturers Association:
1. NEMA 250 - Enclosures for Electrical Equipment (1000 Volts Maximum).

1.3 SUBMITTALS

A. Section 01 33 00 - Submittal Procedures: Submittal procedures.

B. Shop Drawings (pressure booster systems): Indicate layout, general assembly, components, dimensions, weights, clearances, and methods of assembly.

C. Product Data:
1. Piping: Submit data on pipe materials, fittings, and accessories. Submit manufacturer's catalog information.
2. Valves: Submit manufacturers catalog information with valve data and ratings for each service.
3. Hangers and Supports: Submit manufacturers catalog information including load capacity.
4. Domestic Water Specialties: Submit manufacturers catalog information, component sizes, rough-in requirements, service sizes, and finishes.
5. Pumps: Submit pump type, capacity, certified pump curves showing pump performance characteristics with pump and system operating point plotted. Include NPSH curve when applicable. Include electrical characteristics and connection requirements.

D. Manufacturer's Installation Instructions: Submit installation instructions for pumps, valves and accessories.

E. Manufacturer's Certificate: Certify products meet or exceed specified requirements.

1.4 CLOSEOUT SUBMITTALS

A. Section 01 70 00 - Execution and Closeout Requirements: Closeout procedures.

B. Project Record Documents: Record actual locations of valves and equipment.

C. Operation and Maintenance Data: Submit spare parts list, exploded assembly views and recommended maintenance intervals.

1.5 QUALITY ASSURANCE

A. For drinking water service, provide valves complying with NSF 61.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Section 01 60 00 - Product Requirements: Product storage and handling requirements.

B. Accept valves and equipment on site in shipping containers with labeling in place. Inspect for damage.

C. Provide temporary protective coating on cast iron and steel valves.

D. Provide temporary end caps and closures on piping and fittings. Maintain in place until installation.

E. Protect piping systems from entry of foreign materials by temporary covers, completing sections of the Work, and isolating parts of completed system.

1.7 FIELD MEASUREMENTS

A. Verify field measurements prior to fabrication.

1.8 EXTRA MATERIALS

A. Section 01 70 00 - Execution and Closeout Requirements: Spare parts and maintenance products.

1.9 Furnish one packing kit for each size valve, two hose end vacuum breakers for hose bibs and two pump seals for each pump model.

PART 2 PRODUCTS

2.1 DOMESTIC WATER PIPING, BURIED WITHIN 5 FEET OF BUILDING

A. Refer to Section 22 05 03.

2.2 DOMESTIC WATER PIPING, ABOVE GRADE

A. Refer to Section 22 05 03.

2.3 UNIONS AND FLANGES

A. Refer to Section 22 05 03.

2.4 WATER METERS

A. Refer to Section 01 11 90.

2.5 PIPE HANGERS AND SUPPORTS

A. Manufacturers:
1. Unistrut
    a. Pipe Support: Model P1000

1) ST Finish – Stainless Steel Type 316
b. Pipe Clamps: Model P1117 for 2-inch pipe, P1113 for 1-inch pipe
1) ST Finish – Stainless Steel Type 316
2. Grainger
a. Pipe Straps / Routing Clamps: Galvanized, for pipe or conduit size as specified in drawings
3. Substitutions Permitted: Section 01 60 00 - Product Requirements.

2.6 PIPE WALL BOOT

A. Manufacturer:
1. CSI Designs Pipetite Standard, PT4-000
2. Substitutions Permitted: Section 01 60 00 - Product Requirements

B. Type:
1. Flexible seal that allows pipeline movement without damage
2. Silicone construction
3. Self-sealing, no sealant required
4. For 4” Ductile Iron pipe

2.7 PRESSURE GAUGES

1. Refer to Section 01 11 90

2.8 SAMPLE TAPS

1. Refer to Section 01 11 90

2.9 PIPE LABELS

A. Manufacturer:
1. Seton
2. Substitutions Permitted: Section 01 60 00 - Product Requirements

B. Description:
1. Indicate flow direction
2. Indicate treated water vs non-treated water
3. Self-adhesive

2.10 EXHAUST FAN

A. Manufacturer:
1. McMaster-Carr: Dust-resistant direct drive wall-mount exhaust fan
a. Dust-Resistant Direct-Drive Wall-Mount Exhaust Fan, with 10" Diameter Blade, 120V AC, 1000 CFM Airflow | McMaster-Carr
2. Substitutions Permitted: Section 01 60 00 – Product Requirements

B. Description:
1. Airflow: 1000 cfm

2. Electrical connection: Hardwire, 120V single phase
3. Power: ¼ hp
4. Totally enclosed motor, steel frame

2.11 FLOOR DRAIN

A. Manufacturers
1. OATEY ABS Area Floor Drain with 4-inch Stainless Steel Cover
2. Substitutions Permitted: Section 01 60 00 – Product Requirements

B. Description
1. Stainless Steel or Noncorrosive Plastic Construction
2. Connects to 4" PVC
3. NSF 61 Compliant

2.12 LAMINATE COUNTERS

A. Manufacturers:
1. LABTech Supply Company
2. LOC Scientific
3. Substitutions Permitted: Section 01 60 00 – Product Requirements

B. Description
1. Laminate material
2. Minimum 1" Thickness
3. Of dimensions as specified on Drawings
4. All edges with slight radius
5. With drip groove on underside
6. Black color – or other with engineer approval
7. Joints bonded by method of manufacturers recommendation
8. With supporting mounting brackets, described by
   a. Supported every 24" at maximum, and within 12" of an edge
   b. No span without at least 2 brackets
   c. Steel
   d. https://ironsupports.com/products/standard-front-mount-countertop-l-bracket?variant=15840870465607&gad_source=1&gad_campaignid=17519762048&gbraid=0AAAADKUw2q4zg4s4CocFlw3fuOaQKQUw&gclid=EAIaIQobChMI-K28-rL4kgMVjUhHAR3HeR2WEAQYBCABEgIEW_D_BwE
   e. 20" Deep minimum
   f. 14" High minimum
   g. Bracket Substations with approval from Engineer

2.13 SAFETY WINDOW

A. Manufacturers:
1. PGT Windows – Picture Window PW5520
2. Substitutions Permitted: Section 01 60 00 – Product Requirements

B. Description:

1. Picture window – does not open
2. With laminated impact resistant glass or approved safety glass alternative
3. Without grid or partitions

2.14 CHEMICAL TANK

A. Refer to Section 44 44 14 Chemical Feed Pumps

2.15 CHEMICAL FEED PUMP

A. Refer to Section 44 44 14 Chemical Feed Pumps

~~2.16 INFILTRATION GALLERY PUMP~~

~~A. Manufacturer:~~
~~1. Goulds 25CS10~~
~~a. 7 Stage, 1hp~~

~~B. Description:~~
~~1. Delivers 20+ GPM at 160 ft of Head~~
~~a. Operates within 85% of peak efficiency at this duty point~~
~~2. To operate at 3500 RPM~~
~~3. Single Phase, 60Hz, 115 V, 1 hp~~
~~4. With necessary accessories to attach to 4" pipe~~

2.17 BOOSTER PUMP

A. Manufacturer:
1. Goulds 7GB10 WaterGun Booster Pump
a. 16 Stage, 1hp

B. Description:
1. Delivers 10+ GPM at 300 ft of head
a. Operates within 85% of peak efficiency at this duty point
2. To operate at 3500 rpm
3. Single Phase, 60 hz, 115 V, 1 horsepower
4. 1" NPT ports for suction and discharge
5. Cast Iron Motor Adapter
6. BUNA Mechanical Seal
7. Stainless Steel Shaft Coupling
8. 304 Stainless Steel Bowl
9. Cast Iron Discharge Head
10. Stainless Steel Hex Shaft
11. 304 Stainless Steel Casing

2.18 ROUGHING FILTER

A. Manufacturer: Xylem AVGF-6 (Automatic Valveless Gravity Filter)

B. Description:
1. 6’ Filter Diameter Model
2. 3 GPM per square foot - Service Flow Option
3. With 0.45mm-0.55mm sand
   a. “187-00665” as internally recognized by Evoqua/Xylem

2.19 EQUALIZATION TANK

A. Manufacturer: Norwesco Vertical Water Tank – Black or Dark Green – 5000 Gallon

B. Description:
1. 5000 Gallon Nominal Storage
2. 141” Diameter x 86” Height
3. NSF Approved

PART 3 EXECUTION

3.1 EXAMINATION

A. Section 01 30 00 - Administrative Requirements: Coordination and project conditions.

B. Verify excavations are to required grade, dry, and not over-excavated.

3.2 PREPARATION

A. Ream pipe and tube ends. Remove burrs. Bevel plain end ferrous pipe.

B. Remove scale and dirt, on inside and outside, before assembly.

3.3 INSTALLATION - METERS

A. Install positive displacement meters in accordance with AWWA M6 and as shown on the plans.

3.4 INSTALLATION - GAGES

A. Install gages as shown on the drawings. Install one pressure gage for each pump, locate taps and on suction and discharge of pump; pipe to gage.

B. Install gage taps in piping where needed.

C. Install pressure gages with pulsation dampers. Provide needle valve or ball valve to isolate each gage.

D. Provide instruments with scale ranges selected according to service with largest appropriate scale.

E. Install gages in locations where they are easily read from normal operating level. Install vertical to 45 degrees off vertical.

F. Adjust gages to final angle, clean windows and lenses, and calibrate to zero.

3.5 INSTALLATION - ABOVE GROUND PIPING

A. Install valves with stems upright or horizontal, not inverted.

B. Install brass male adapters each side of valves in copper piped system. Solder adapters to pipe.

C. Install ball valves for shut-off and to isolate equipment, part of systems, or vertical risers.

D. Provide spring loaded check valves on discharge of water pumps.

E. Provide flow controls in water circulating systems as indicated on Drawings.

F. Install potable water protection devices on plumbing lines where contamination of domestic water may occur; on flush valves, interior and exterior hose bibs.

G. Pipe relief from valves to exterior of building as shown in the Drawings.

H. Pipe back-flow preventers and drains to nearest floor drain.

3.6 INSTALLATION - PUMPS

A. Provide pumps to operate at specified system fluid temperatures without vapor binding and cavitation, are non-overloading individual operation, and operate within 25 percent of midpoint of published maximum efficiency curve.

B. Install long radius reducing elbows or reducers between pump and piping. Support piping adjacent to pump with concrete block so no weight is carried on pump casings.

C. Provide air cock and drain connection on horizontal pump casings.

D. Provide drains for bases and seals.

E. Check, align, and certify alignment of base mounted pumps prior to start-up.

F. Install base mounted pumps on concrete housekeeping base, with anchor bolts, set and level, and grout in place. Refer to Section 03 30 00.

G. Lubricate pumps before start-up.

3.7 CLEANING

A. Section 01 70 00 - Execution and Closeout Requirements: Requirements for cleaning.

B. Disinfect water distribution system in accordance with Section 33 13 00.

END OF SECTION