

2026 WWTP Improvements

**Aeration Basin Gates and Diffuser Additions, Concrete Rehabilitation, and Secondary
Clarifier Weir Installation and Pipe Replacement**

October 15, 2026

REQUEST FOR BIDS - ADDENDUM 1

MAMMOTH COMMUNITY WATER DISTRICT

MAMMOTH LAKES, CALIFORNIA





REQUEST FOR BIDS – ADDENDUM 1

2026 WWTP Improvements

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1 CHANGES TO BIDDING REQUIREMENTS AND TECHNICAL SPECIFICATIONS

Changes made to pages 4, 8, and 10 of the Bidding Requirements and the Technical Specifications based on contractors' questions are shown in **red font** and removals are indicated by strikethrough.

2 QUESTIONS AND ANSWERS

The following questions were submitted by the submission deadline:

- | | |
|----------|---|
| Question | Will new or existing anchors be used for the weir trough supports in the secondary clarifier? |
| Answer | The replacement weir trough supports do not appear to have enough mounting adjustment availability to accommodate the existing anchor bolts in the secondary clarifier walls. New wedge anchors were provided with the replacement weir trough and installation hardware and are to be used in lieu of existing anchor bolts. Bid Schedule Item 8 has been removed and Exhibit A – Technical Specifications been updated. |
| Question | Are there any electrical or other mechanical updates required to bring the offline secondary clarifier online? |
| Answer | Secondary Clarifier #1 as noted in the Construction Plans does not require any additional work beyond the weir trough and scum pipe replacement detailed in the bid documents. |
| Question | How will MCWD be participating in any of the required pumped bypasses or pumping events? |
| Answer | <p>MCWD WWTP Operations staff will need to review bypass plans before they begin.</p> <p>MCWD will provide its own means to transfer water between primary clarifiers so that they may be taken offline for the Primary Effluent Channel concrete rehabilitation work. 2 pumps will be required for redundancy. The contractor will be responsible for providing pumping equipment and labor to bypass the primary effluent flows.</p> <p>The contractor will be responsible for dewatering the presently offline Primary Clarifier #1 for necessary concrete rehabilitation work. This clarifier is not anticipated to be brought online during the project.</p> <p>The contractor will be responsible for bypass pumping to transfer mixed liquor from the online Aeration Basin #1 to Aeration Basin #2. MCWD staff will be onsite during this transfer due to the vital importance of maintaining treatment in the aeration basins.</p> |
| Question | What flow rates must be bypassed? |
| Answer | <p>Flows in the primary effluent channel and aeration basins depend on the season.</p> <p>Primary effluent flows match the peak plant influent during ski-season holiday periods, which reached 3.635 MGD in 2025. The daily maximum averages around 2.0 MGD and reaches a minimum of around 1.5 MGD in the spring and 1.1 MGD in the fall. Nighttime flow rates can be much lower.</p> |



Aeration basin bypass flow rates may be lower, as incoming primary effluent and RAS flow will be diverted to the newly online aeration basin. Approximately 421,000 gallons are in the online aeration train and need to be transferred in a matter of hours to maintain treatment performance. The aeration basins normally have mixed liquor flowing at a rate of 1000 – 2200 GPM depending on plant flows.

- | | |
|----------|--|
| Question | Is a butterfly gate the most appropriate isolation gate in the mixed liquor effluent channel? |
| Answer | The butterfly gate in the mixed liquor channel effluent channel between Aeration Basin #1 and #2 will be changed to a slide gate that can pass a minimum of 4 MGD without surcharging. Bid Schedule Item 3 and the Technical Specifications have been updated. |
| Question | What cleaning provisions are required for concrete rehabilitation work in the primary clarifier, primary effluent channel, aeration basin, and pipe gallery? |
| Answer | Refer to the Xypex standards and documentation provided in the bid package. A CSP-3 surface preparation is recommended for best results and will require clearing existing organic and paint residues. |
| Question | What are the existing diffusers in the anoxic zone of the offline Aeration Basin #2? |
| Answer | Photos and a video of the offline aeration basin are provided. |
| Question | Are the 2 slide gates at the south end of Aeration Basin #1 planned for removal? |
| Answer | These slide gates can be abandoned open in place, which is their current operating position. The new slide gate in the mixed liquor effluent trough makes those gates redundant. |
| Question | What Xypex procedures are to be used in Aeration Basin #2? |
| Answer | Xypex Concentrate is to be used on the identified surfaces of the aeration basin and either Xypex Dry-Pac or Patch'N Plug are to be used in cracks and slab interface joints. See Exhibit C for Xypex application details. |
| Question | Will leaks in the conduit panel and other locations in the pipe gallery require concrete rehabilitation? |
| Answer | The pipe gallery contains additional potential locations for concrete rehabilitation beyond those identified in Exhibit B. They are not presently included in the bid schedule but may be added as a change order at the Concrete Crack Sealing and Concrete Surface Sealing unit prices. Additional crack and surface repairs in the other treatment processes may also be added as a change order at the bid schedule unit prices. |
| Question | What are the daily work hours for the project? |
| Answer | All work is at the MCWD WWTP. Normal MCWD working hours are Monday-Friday, 7AM-430PM. Work at other hours may be approved with written MCWD approval. Provisions for access will be provided to access equipment as needed during bypass operations. |



- Question Section 2.2 requires completion by December 1, 2026. Assuming bid opening on October 16, board award, and contract execution, when does the District expect to issue Notice to Proceed?
- Answer The District expects to issue the Notice of Intent to Award within a few days of the bid deadline, with the Notice to Proceed following after reviewing schedules, bonding, and insurance.
- Question Stainless slide and butterfly gates are typically fabricated to order, with lead times of roughly 8–14 weeks after submittal approval. Diffuser grid piping and hardware typically take 6–10 weeks. Will the District accept phased completion: Secondary Clarifier work (weir troughs and scum pipe) in 2026, with the gates, diffuser grids, and concrete work completed by an agreed spring 2027 date?
- Answer Yes, the District anticipates phased completion of the full scope of work. The Secondary Clarifier work is top priority, hence the current completion date. Remaining work is anticipated to require extensions due to weather conditions, material lead times, etc.
- Question If phasing is not acceptable, will the District extend the December 1, 2026 completion date to account for equipment lead times documented by the manufacturers?
- Answer See above.
- Question Is the November 15 target for the Secondary Clarifier work a firm contract milestone or a goal?
- Answer November 15 is the goal for completion of the Secondary Clarifier work. As the bid submission deadline is being extended by 5 days, the contract milestone is extended to November 20 with regards to liquidated damages.
- Question Section 2.2 states that time is of the essence. With liquidated damages set at \$0, please confirm how the District will treat completion delays caused by equipment lead times or weather.
- Answer Daily Liquidated Damages Amount in the Mammoth Community Water District Short Form Contract shall be set to \$1,000 per day for Secondary Clarifier work not completed by November 20, and \$0 per day for the remaining scope of the project. The District anticipates that delays may be caused due to lengthier equipment lead times, weather conditions, etc. and that these causes will justify appropriate extensions to the completion of the full scope of work.
- Question How long does the District expect to take reviewing submittals (gates, diffuser grids, scum pipe, bypass plans, Xypex timeline)?
- Answer The District reviews submittals in the order received and processes them within a few business days.
- Question Exhibit A, Section 22 anticipates a possible winter shutdown for the concrete work. Will a winter shutdown also apply to the gate and diffuser grid work,



	since that work depends on the Aeration Basin #2 concrete being completed first?
Answer	Yes, a contract extension due to winter conditions is likely depending on weather conditions.
Question	If the work is split around a winter shutdown, will the District pay for a second mobilization, or should all bidders include it in the Mobilization item?
Answer	Bidders should price their single mobilization entry in the Unit Bid Schedule according to the project documents and District answers to questions.
Question	Will equipment and materials be allowed to remain in the District Yard over the winter shutdown?
Answer	Will equipment and materials be allowed to remain in the District Yard over the winter shutdown?
Question	Will the District approve Xypex Gamma Cure in advance, or should bidders plan on heated enclosures to maintain 40°F or higher during application and curing?
Answer	A submittal is required for using Xypex Gamma Cure and may be accepted given suitable work conditions. Xypex specifications and correspondence with their technical team about Concentrate and Patch'N Plug waterproofing system (attached) confirmed that maintaining concrete substrate and surface temperatures over 40°F is required for a minimum of 4 days for proper curing. Moist curing is also required for a minimum of 3 days, which Xypex Gamma Cure can aid with but not substitute for adequate thermal protection in cold environments. Contractor is responsible for choosing the means and methods of achieving the project goals given conditions in the field.
Question	May bidders take field measurements of the 6" scum pipe during the October 7 site walk, so fabrication can begin immediately after award?
Answer	Yes, the method used to gather an approximate measurement of the 6" scum pipe was provided during the site walk. MCWD will assist with field measurements once the Notice of Intent to Award is made so fabrication can proceed as quickly as possible.
Question	Will the contractor have access to field-verify slide gate and butterfly gate dimensions before submittals are due?
Answer	Slide gate dimensions may be taken by the contractor's preferred methods. Aeration Basin #2 is currently online and will not be available for measurements until Aeration Basin #1 has its scope of work completed. Measurements for the new mixed liquor channel slide gate may be taken at any time and referenced with the provided AsBUILTs.
Question	The concrete surface sealing quantity is listed as 1,380 SF (Invitation to Bid), 1,400 SF (Bid Schedule), and 1,475 SF (Bid Bond form). Which quantity should bidders use?
Answer	Bidders should use 1,400 SF in the bid schedule for the current estimate of the concrete surface sealing scope.



Question Bid Schedule Items 3 (Aeration Basin Butterfly Gate Installation) and 8 (Anchor Bolt Installation, Bid Alternate) have no Amount line. Please confirm how these items should be priced and whether the bid alternate is included in the Grand Total.

Answer Bid Item 3, Aeration Basin Butterfly Gate Installation, is being changed to a single entry for Aeration Basin New Slide Gate Installation. Bid Item 8, Anchor Bolt Installation, Bid Alternate, has been removed due to utilizing new anchor bolts for trough support arm installation. Please note that wedge anchor bolts are onsite with the secondary clarifier weir trough installation hardware.

Question The Invitation to Bid references "Instructions to Bidders," but this section is not included in the bid package. Please provide it, or confirm it is not required.

Answer Instructions to Bidders are not a required separate section for this bid submission. The Bidding Requirements should be followed for a bid submission.

Question Is electronic bid submission permitted, or must bids be delivered as sealed hard copies to the District office?

Answer Solely electronic bid submission is not permitted due to the bid bond requirement. Please submit physical bids including a valid bid bond in person or by delivery to:

Mammoth Community Water District
c/o 2026 WWTP Improvements Bids
1315 Meridian Blvd.
Mammoth Lakes, CA 93546-0597

3 SUPPLEMENTARY PHOTOS

Additional photos of the Filter Building, Juniper Ridge Pump Station, Knolls Pump Station, and Timber Ridge Pump Station may be viewed at the following link:

[Aeration Basin #1 Photos and Video](#)

4 CORRESPONDENCE WITH XYPEX

Xypex provided additional details regarding cold weather application requirements in email correspondence.

[Xypex Correspondence 10-9-26.pdf](#)

Dated: 10/15/2026

Mammoth Community Water District

By: Nick Holt

Nick Holt, PE
Associate Engineer

1 BIDDING REQUIREMENTS

1.1 Invitation to Bid

Sealed proposals will be received at the office of the Mammoth Community Water District, located at Mammoth Community Water District, 1315 Meridian Boulevard, Mammoth Lakes, CA 93546, until **3:00PM** local time on **Wednesday, October 21, 2026**, or such later date as may be set by addendum, and then will be publicly opened and read for the construction of the following public works project:

Aeration Basin Gates and Diffuser Additions, Concrete Rehabilitation, and Secondary Clarifier Weir Installation and Pipe Replacement

All questions will be submitted to Nick Holt via email at nholt@mcwd.dst.ca.us. All questions shall be submitted by **3:00PM** local time on **Friday, October 9, 2026**.

Mammoth Community Water District (MCWD) is seeking wastewater treatment plant contractors to install additional air diffusers and piping in aeration basins, replace isolation gates in aeration basins, rehabilitate concrete by crack sealing and surface coating, replace a secondary scum pipe, and install FRP weir troughs in a secondary clarifier. 3 isolation gates, 2 aeration grids comprising of approximately 360 diffusers and associated piping for 2 aeration grids, 520 linear feet of concrete joints and ~~1,380~~ **1,400**-square feet of concrete surfaces, 150 linear feet of FRP weirs and 27 trough supports, and 8 feet of 6" pipe will be installed or rehabilitated as described in the plans and specifications included as **Exhibits A and B**.

The contract documents for the Project, including the public works construction contract, instructions to bidders, bid forms, and plans and specifications, may be examined at the District office, with prior notice to the District's representative, located at **1315 Meridian Blvd., Mammoth Lakes, CA**, or online at www.mcwd.dst.ca.us. Bidders must comply with the Instructions to Bidders.

The District will hold a pre-bid conference at the District Headquarters, **1315 Meridian Blvd., Mammoth Lakes, CA**, on **Wednesday, October 7, 2026** at **2PM** local time. Walkthroughs to inspect the Primary Clarifier, Primary Effluent Channel, Aeration Basins, Secondary Clarifier, and Pipe Gallery will take place at the District Headquarters. It is suggested that each prospective bidder review the bid documents and project site prior to the pre-bid conference, and review the MCWD-provided materials for the project at the pre-bid conference. Attendance at the pre-bid conference is mandatory for a prospective bid to be considered responsive. On a case-by-case basis, the District may schedule an additional pre-bid conference if requested before **Thursday, October 8, 2025** at **4PM** local time.

Each Bid must be submitted on the prescribed forms and accompanied by cash, a cashier's check, certified check or bid bond executed on the prescribed form payable to the District in an amount not less than 10 percent of the amount bid.

The successful bidder will be required to furnish a payment bond and faithful performance bond each in the full amount of the Contract price, and insurance with certificates and endorsements of insurance, as provided in the Contract Documents. The

1.3 Bid Schedule

Item	Description	Quantity*	Units	Unit Price	Amount
1	Mobilization	1	Lump		\$_____
2	Aeration Basin Slide Gate Replacement	2	Ea		\$_____
3	Aeration Basin ~~Slide~~ Gate Installation	1	Ea		\$_____
4	Aeration Basin Diffuser Grid Installation	2	Ea		\$_____
5	Concrete Crack Sealing	520	LF		\$_____
6	Concrete Surface Sealing	1,400	SF		\$_____
7	Secondary Clarifier Weir Installation	1	Lump		\$_____
8	~~Secondary Clarifier Weir Bid Alternate: New Anchor Bolt Installation~~	~~1~~	~~Ea~~		\$_____
~~9~~ 8	Secondary Clarifier Scum Pipe Replacement	1	Lump		\$_____
~~10~~ 9	Primary Clarifier Dewatering	1	Lump		\$_____
~~11~~ 10	Primary Effluent Transfers, Bypasses, and Temporary Cofferdams	1	Lump		\$_____
~~12~~ 11	Aeration Basin Mixed Liquor Transfers, Bypasses, Dewatering, and Temporary Cofferdams	1	Lump		\$_____
Grand Total:					\$_____

* Items described include all labor, equipment, tools, materials with the exceptions of aeration basin ceramic disc diffusers and secondary weir troughs and support arms, and tasks of work needed to complete removal of existing equipment listed for disposal, new equipment installation, and concrete rehabilitation as described in these Specifications.

** Above prices include any amount payable by the Owner for taxes by reason of this contract.

Acknowledge Addenda

Addendum #:_____

Signed: _____

Addendum #:_____

Signed: _____

Addendum #:_____

Signed: _____

Addendum #:_____

Signed: _____

1.5 **Bid Bond**

KNOW BY ALL MEN BY THESE PRESENTS, THAT WE, THE UNDERSIGNED _____, Contractor or Principal; and _____, as Surety, are hereby held and bound unto Mammoth Community Water District, hereinafter called the District, in the sum of \$ _____, which sum is equal to at least ten percent of the total amount of the Bid, payment of which sum, well and truly to be made, we hereby jointly and severally bind ourselves, our heirs, executors, administrators, successors, and assigns.

The condition of the above obligation is such that whereas the Principal has submitted to the District a certain Bid, attached hereto and hereby made a part hereof, to enter into a Contract in writing, for the construction of the following public works project:

Aeration Basin Gates and Diffuser Additions, Concrete Rehabilitation, and Secondary Clarifier Weir Installation and Pipe Replacement

Mammoth Community Water District (MCWD) is seeking wastewater treatment plant contractors to install additional air diffusers and piping in aeration basins, replace isolation gates in aeration basins, rehabilitate concrete by crack sealing and surface coating, replace a secondary scum pipe, and install FRP weir troughs in a secondary clarifier. 3 isolation gates, approximately 360 diffusers and associated piping for 2 aeration grids, 520 linear feet of concrete joints and ~~1,475~~ 1,400 square feet of concrete surfaces, 150 linear feet of FRP weirs and 27 trough supports, and 8 feet of 6" pipe will be installed or rehabilitated. NOW, THEREFORE,

(a) If the Bid is rejected, or in the alternate,

(b) If the Bid is accepted and the Principal shall sign and deliver a Contract, in the form of the Contract attached hereto and shall execute and deliver Performance and Payment Bonds in the forms attached hereto and shall deliver proof of insurance (all completed in accordance with the Contract Documents), and shall in all other respects perform the agreement created by the acceptance of the Bid;

Then, this obligation shall be void, otherwise the same shall remain in force and effect; it being expressly understood and agreed that the liability of the Surety for any and all default of the Principal hereunder shall be the amount of this obligation as herein stated.

The Surety, for value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by any extension of the time within which the District may accept such Bid, and said Surety does hereby waive notice of any such extension.

IN WITNESS THEREOF, the above bounded parties have executed this instrument under their several seals this _____ day of _____, the name and corporate seal of each corporate party being hereto affixed and those presents duly signed by its undersigned representative, pursuant to authority of its governing body.

EXHIBIT A

TECHNICAL SPECIFICATIONS

Mammoth Community Water District

**Aeration Basin Gates and Diffuser Additions, Concrete Rehabilitation, and
Secondary Clarifier Weir Installation**

Mammoth Lakes, CA

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1 SUMMARY OF WORK

The specifications presented herein are intended to provide the information necessary for all parties concerned with the work to know the nature and amounts of materials and the work required to successfully replace control gates and add air diffusers to aeration basins, repair concrete cracks, and replace weir troughs and a corroded scum collection pipe in a secondary clarifier at the wastewater treatment plant owned by the Mammoth Community Water District (MCWD WWTP) and located within the Town of Mammoth Lakes, CA. The locations of the facilities are shown in **Figure 1**.

Mammoth Community Water District (MCWD) is the OWNER. All demolition and construction shall be conducted in accordance with the Town of Mammoth Lakes building code except where specified in these TECHNICAL SPECIFICATIONS and/or CONTRACT DRAWINGS.

The scope of work generally includes the following:

- a. Remove and dispose of the weir troughs and supports in the designated secondary clarifier at the MCWD WWTP.
- b. Install MCWD-provided FRP weir troughs and stainless steel trough supports.
- c. Remove and dispose of 2 existing slide control gates in the aeration basins.
- d. Perform surface preparation, material application, and any additional concrete rehabilitation methods prescribed for specific concrete repairs at designated location in the aeration basin, primary clarifier, primary effluent channel, and underground pipe gallery at the MCWD WWTP.
- e. Provide and install 2 replacement slide gates and 1 new butterfly gate in the aeration basins.
- f. Provide and install new control valves, downpipes, headers, and drainpipes for the additional aeration grids in the selector zone segments of the aeration basins.
- g. Provide pumps, temporary dams, and any additional components necessary to transfer mixed liquor between aeration basins as needed.
- h. Provide pumps, temporary dams, and any additional components necessary to transfer primary treated wastewater while rehabilitating concrete in the primary effluent channel.

2 CONTRACT DRAWINGS

The form and detail of the various features of the demolition and construction work are shown on the following drawings sets, included in Exhibit B:

- Demolition and Construction Plans

Original design drawings of the Primary Clarifier, Primary Effluent Channel, Aeration Basins, Secondary Clarifier, and Pipe Gallery are included as Exhibit G for further reference.

3 QUALIFICATIONS OF THE CONTRACTOR

The CONTRACTOR, in order to qualify for award of the contract, shall be licensed in the State of California, hold a Class A Contractor License, and shall have experience in the demolition and installation of WWTP equipment and concrete rehabilitation work of similar details for a period of not less than 5 years.

4 INSURANCE

See Mammoth Community Water District Modified Short Form Contract for Insurance Requirements.

5 PERMITS

Permits required by the State of California, Town of Mammoth Lakes, Great Basin Unified Air Pollution Control District, or any other agency having jurisdiction for demolition and installation of WWTP additions and modifications shall be obtained by the OWNER.

6 SITE ACCESS

The buildings sites are located with the Town of Mammoth Lakes on parcels owned by OWNER. Access to each building shall be by existing paved roads.

7 WORK AREA CONSTRAINTS AND SITE SECURITY

The MCWD WWTP is located on land with restricted public access. The WWTP contains treatment processes, control and power systems, and other components necessary for full-time operation of the plant. Demolished building materials, construction waste, scraps, etc. cannot be allowed to enter the Headworks, Primary Clarification Tanks, Aeration Basins, Secondary Clarifiers, Aerobic Digesters, Equalization Basin, Recycled Water Basin, etc.

The CONTRACTOR shall use reasonable care and responsibility to protect the MCWD WWTP and nearby buildings and sites against damages, and shall take precautions that the storage and/or installation of materials and/or equipment does not overload roof decks or building structures. The CONTRACTOR shall be responsible for the correction of any damage incurred as a result of the performance of the contract.

Storage of equipment, materials, and vehicles necessary for performance of the work is available nearby in the MCWD District Yard for the duration of the project. Access is permitted during regular MCWD working hours from 7:00AM to 4:30PM Monday-Friday and at extended hours depending on staffing and weather conditions.

8 WATER AND POWER

The CONTRACTOR shall make arrangements to obtain water from the OWNER at the OWNER's office at 1315 Meridian Blvd., Mammoth Lakes, CA. The CONTRACTOR shall provide all equipment for hauling and storing water from the OWNER's office to the SITES. The CONTRACTOR shall provide for all costs of supplying water for the demolition and construction project, which shall be included the Mobilization tasks of Unit Bid Schedule.

The CONTRACTOR shall provide all power required for operations under the CONTRACT.

9 ON-SITE SANITATION

No restroom facilities are available at the MCWD WWTP. The CONTRACTOR shall provide for a portable toilet facility for the duration of all related work at the MCWD WWTP. The cost for the portable toilet shall be included in the Mobilization tasks of Unit Bid Schedule.

10 EXISTING UTILITIES

The CONTRACTOR shall be fully responsible for the protection of all existing surface and underground utilities during all phases of the work. The CONTRACTOR shall repair, at their expense, any damages to existing facilities caused directly or indirectly by their operations.

11 EXPOSED CONDITIONS

Existing conduits, pumps, control valves, pipes, and other essential components of the MCWD WWTP are located in and near the project areas. All efforts shall be made by CONTRACTOR to protect any newly exposed portions of facilities that could be damaged from weather and debris during construction. The cost for such work shall be included in each item's entry in the Unit Bid Schedule.

12 REPAIR AND CLEANUP

Following completion of work, the CONTRACTOR shall remove from the premises all temporary structures, fences, and excess materials, tools, and equipment used in the execution of their work, and shall dispose of all debris resulting from their work in accordance with local, state and federal regulations. The CONTRACTOR shall repair any damage to pavement around the MCWD WWTP, flood control, or other facilities damaged by CONTRACTOR. CONTRACTOR shall remove all debris from the job site in a timely and legally acceptable manner so as not to detract from the aesthetics or the functions of the buildings and sites. The cost for such items shall be included in each facility's entry in the Unit Bid Schedule.

13 TREATMENT PLANT SAFETY

Open-air tanks have safety railings, gratings, and other occupancy protections that are not designed for ingress/egress, fall protection, and other construction safety controls. CONTRACTOR shall provide all necessary scaffolding, shoring, bracing, underpinning, or propping necessary for providing safe and efficient working conditions. The cost for such items shall be included in each item's entry in the Unit Bid Schedule.

14 WASTEWATER TREATMENT BYPASSES

Bypassing the normal flow path of the wastewater treatment process, or switching between online and offline treatment trains, will be necessary at times during the project. CONTRACTOR shall be responsible for all cofferdams, pumps, piping, fittings, and other necessary items to drain or bypass flows at the WWTP. All bypasses or transitions between online and offline treatment trains will require a minimum of 3 business days' written notice to MCWD along with a written operational plan during the bypass or transition. 100% uptime must be maintained at the WWTP. The cost for bypasses and treatment train transitions shall be included in each treatment process' bypass entry in the Unit Bid Schedule.

Aeration Basin #2 currently has a leak that progresses into the pipe gallery and requires concrete crack and joint sealing before being made operational. Concrete work on Aeration Basin #2 must be completed with MCWD approval before taking Aeration Basin #1 offline and transferring mixed liquor into Aeration Basin #2 for continuous activated sludge process operations.

Submittals: CONTRACTOR shall submit a written plan and schedule for each bypass required for completion of the project.

15 ORDER OF PROJECTS

The Secondary Clarifier Weir Installation and Scum Collector Pipe Replacement work shall be performed first and is desired to be completed by November 15. This treatment unit is currently offline and requires no disruption to other treatment processes for the work to be performed by CONTRACTOR. Following the completion of the Secondary Clarifier projects, or written MCWD approval, work may proceed on the remaining scope of work.

16 SECONDARY CLARIFIER WEIR INSTALLATION

Replacement FRP weir troughs, PVC spreader bars, stainless steel trough supports, and associated installation hardware is onsite at the MCWD WWTP and shall be installed by CONTRACTOR. CONTRACTOR shall inspect these materials during pre-bid conference. Existing steel weir troughs and support arms are to be removed and disposed of by CONTRACTOR. CONTRACTOR shall install MCWD-provided weir troughs to match previous design grades and positions relative to the scum baffle, effluent box, scum deflector, center column, influent skirt, valves, catwalk, and other existing components of the secondary clarifier. ~~The existing concrete anchor bolts are to be used and not removed except where~~

~~approved by MCWD.~~ CONTRACTOR shall remove any interfering existing trough support mounting bolt(s) and install provide wedge anchors per manufacturer's installation guidelines. A minimum embedment depth of 5.25" and minimum clearance of 3" to embedded rebar is required for new anchors.

Shop drawings are included in Exhibit D and previous steel trough and support arm schematics are included in Exhibit C. The cost for such removal and installation shall be included in the Secondary Clarifier Weir Installation entry in the Unit Bid Schedule.

Submittals: CONTRACTOR shall submit product sheets and shop drawings for any modifications to the replacement weir trough and support arm installation.

~~17 SECONDARY CLARIFIER WEIR INSTALLATION BID ALTERNATE~~

~~The existing mounting anchors bolts for the weir trough support arms in the concrete clarifier walls are to be reused where possible. If the CONTRACTOR is required to install new mounting bolts in order to install the replacement weir trough supports, CONTRACTOR shall remove any interfering existing trough support mounting bolt(s) and install suitable replacement grade 316 stainless steel drop in anchor(s) per manufacturer's installation guidelines for the supplied 1/2" x 6" anchors and washers. A minimum embedment depth of 5.25" and minimum clearance of 3" to embedded rebar is required for new anchors. The cost for each existing bolt removal and new drop in anchor installation shall be entered under the Secondary Clarifier Weir Installation Bid Alternate entry in the Unit Bid Schedule.~~

~~Submittals: CONTRACTOR shall submit product sheet(s) and shop drawings for any modifications to the replacement weir trough and support arm installation.~~

18 SECONDARY CLARIFIER SCUM COLLECTOR PIPE REPLACEMENT

The existing 6" diameter flanged scum pipe with welded flanges, approximately 8.25' long, shall be removed. CONTRACTOR to supply and install replacement 6" diameter grade 304 stainless steel flanged pipe and galvanic isolation hardware. The exact dimensions of this pipe are to be verified in the field. The cost for removal and replacement of this pipe shall be entered under the Secondary Clarifier Scum Pipe Replacement entry in the unit bid schedule.

Submittals: CONTRACTOR shall submit fabrication details and drawings on the replacement stainless steel pipe and galvanic isolation hardware.

19 AERATION BASIN SLIDE GATE REPLACEMENTS

CONTRACTOR shall remove two (2) existing 36" slide gates in Aeration Basin #1 and replace with Waterman SS-250 Series slide gates and all associated operating and mounting components.

CONTRACTOR to verify dimensions in field for each of the 2 replacement gates. CONTRACTOR shall remove the existing isolation gates only upon coordination with MCWD. One of the two aeration basin

trains must always be fully online and operational. The cost for disposal of existing isolation gates, new isolation gates, and gate installation shall be included in the Aeration Basin Slide Gate Replacement entry in the Unit Bid Schedule.

Submittals: CONTRACTOR shall submit product sheets and shop drawings for proposed installations for the 2 slide gates identified in the Construction Plans.

20 AERATION BASIN SLIDE GATE INSTALLATION

CONTRACTOR shall furnish and install one (1) new ~~Waterman VBG Series 24" square butterfly gate~~ **Waterman SS-250 Series slide gate capable of passing a minimum of 4 MGD without surcharging**, perimeter mounting flanges, and all associated operating and mounting components. ~~Butterfly~~ **Slide** gate shall be installed in the mixed liquor effluent trough between the Aeration Basin #1 and Aeration Basin #2 effluent slide gates. Modification to the existing trough aeration lines and cover grates may be required for ~~butterfly~~ **slide** gate installation. CONTRACTOR to verify dimensions in field. One of the two aeration basin trains must always be fully online and operational. Installed gates must not leak beyond the manufacturer's listed specifications. Before final payment, MCWD shall fill the necessary basin trains to verify the watertightness. The cost for the new ~~butterfly gates~~ **slide gate**, gate installation, and realignment **or removal** of mixed liquor trough aeration lines and grates as necessary for clearance around the ~~butterfly~~ **slide** gate shall be included in the Aeration Basin ~~Butterfly Slide~~ Gate Addition entry in the Unit Bid Schedule.

Submittals: CONTRACTOR shall submit product sheets and shop drawings for proposed installations for the butterfly gate identified in the Construction Plans.

21 AERATION BASIN DIFFUSER GRID INSTALLATION

In the selector zone at each of the two (2) aeration trains CONTRACTOR shall remove any existing coarse bubble diffusers and provide and install a new replacement aeration grid consisting of: 4" connection to existing flanged connection to air trunk lines, one (1) 4" manual butterfly control valve, one (1) stainless steel drop arm, purge sump assembly, a set of ten (10) air diffuser arms each with 18 diffusers, diffuser holders, diffuser O-rings, pipe supports, and necessary fittings and attachments. Material specifications and installation details are per 2006 Aeration Basin Record Drawings by HDR, included in Exhibit G, and Sanitaire Ceramic Disc Diffuser specifications. An existing 4" flanged connection off the trunk air lines exists for each of the aeration trains and a 4" stainless steel drop pipe in Aeration Basin #2 is available for use in the diffuser additions. MCWD shall provide 9" Sanitaire ceramic fine bubble diffusers and retainer rings for installation. One of the two aeration basin trains must be fully online and operational at all times. The cost for such items shall be included in the Aeration Basin Diffuser Grid Installation entry in the Unit Bid Schedule.

Submittals: CONTRACTOR shall submit product sheets and shop drawings for proposed installation at each of the diffuser additions identified in the Construction Plans.

22 CONCRETE CRACK AND JOINT REPAIR AND SEALING

Concrete cracks and joints with known leaks are to be rehabilitated and sealed in the eastern aeration basin, primary clarifier #1, primary effluent channel, and pipe gallery are identified in the Construction Plans in Exhibit B. AsBuilts are provided for locations and construction methods of the locations identified for crack and joint sealing, but the exact dimensions are to be verified in the field. Any existing paint or coatings over the concrete rehabilitation areas shall be removed by sand blasting to a CSP-3 profile. Xypex Patch N Plug shall be used for actively weeping cracks and Xypex Blend shall be used for other cracks. All chipping shall be performed with a U-shaped gouging chisel, Bosch HS1475 or equivalent. Xypex Concentrate shall be used for surface sealing. All cracks shall have surface sealing applied on 1 foot to each side of the crack unless otherwise specified in the Construction Drawings. The Construction Drawings and Unit Bid Schedule totals for crack rehabilitation are only calculated for joints at the intersections of walls, floors, and ceilings. Additional cracks discovered during construction on the surfaces of walls, floors, and ceilings may be added to the Concrete Crack Sealing at the rate specified in the Unit Bid Schedule. See Exhibit C for Xypex procedures and methods.

Due to the seasonally dry and cold climate in Mammoth Lakes, extra care must be taken to ensure proper moisture and temperature conditions for curing. MCWD expects that CONTRACTOR may request a winter shutdown if outside weather conditions are not forecasted to be suitable for this work for an extended period. Xypex Gamma Cure may be used with MCWD written approval. CONTRACTOR is responsible for any and all bypasses of WWTP flows (see Wastewater Treatment Bypasses section above), surface preparation and cleaning all concrete surfaces and joints sufficiently for Xypex methods, cleanup of concrete and associated debris from the rehabilitated areas, and restoration of any equipment adjusted or moved during the concrete work. Any alternative or deviation from these materials and methods is at MCWD's discretion for acceptance as an approved alternate. The cost per linear foot of crack and joint sealing and the cost per square foot of surface sealing shall be entered into the corresponding entries of the Unit Bid Schedule.

Submittals: CONTRACTOR shall submit a desired priority of locations to crack and joint seal subject to MCWD approval in order to sequence between online and offline facilities and minimize WWTP operational disruptions. CONTRACTOR shall submit a written timeline for the preparation and application of Xypex products to ensure proper moisture and temperature conditions.