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**Addendum No. 2**  
**Verdi Dam Repairs 2014-2015**  
PWP No: WA-2015-003  
October 8, 2014

The following information, clarifications, changes and modifications are by reference incorporated into the bid documents for the above referenced project. Any work item or contract provision not changed or modified will remain in full force and effect. The bid date and time and construction schedule have changed, please refer to Addendum No. 1, dated October 7, 2014.

**CLARIFICATION**

“Scope of work for repairs has been further clarified. Please see attachment A revised bid item clarification sheet and associated attachment B “photo- 3 dimensional PDF delineating the work areas.”

## **ATTACHMENT A**

### **Verdi Dam Repairs- Bid Item Clarification (Revised)**

#### **Bid Item Number 3**

Contractor shall provide all material, labor, equipment and other resources to complete repairs to the Verdi Dam. Timber shall be untreated #2 or better Douglas Fir. Nails will be 90#. Repairs entail the following:

- Cover and Install 90 feet of decking on each of the 3 decks extending 90 feet from the east side of the structure. Deck boards are 3"x12"x12'. New deck boards to be attached to existing decking with #90 nails and will be installed by overlapping existing deck boards. Some existing deck boards may be replaced as determined by TMWA on-site representative. Replacement of deck boards will be performed via field change authorized by TMWA on-site representative. See attached photo.
- Replace all splash boards on top of dam with contractor verifying required lengths. Splash boards are 3"x12"x8'. See attached photo.
- Replace all 4"x 6" splash board bracing. Integrity of splash board brace plates to be evaluated by TMWA on-site representative. Splash board brace plates to be replaced will be performed via field change authorized by TMWA on-site representative. See attached photo.

TMWA will divert as much water from the river through the Verdi Hydro Canal to accommodate the repairs.

#### **Bid Item Number 4**

Contractor shall provide all material, labor, equipment and other resources to complete repairs to the Verdi Dam Fish Ladder. Timber shall be untreated #2 or better Douglas Fir. Nails will be 90#. Repairs entail the following (see attached photo):

- Remove existing fish ladder and reconstruct in-kind.
- Remove and replace uppermost stop-log panel.
- Install new timber stop-log supports on dam side of ladder with slot configuration accommodating 6"x8" timber.
- Do not construct stop log panels below the uppermost stop log panel.
- All attachment hardware shall be galvanized including carriage bolts, washers and nuts. Counter sink nut end of carriage bolt so that hardware does not protrude into the passage ways on either side of the ladder.
- Utilize galvanized carriage bolts, washers, and nuts. Counter sink nut end of carriage bolt so that hardware does not protrude into the passage ways on either side of the dam.
- Provide as-built drawing of fish ladder construction.

#### **Bid Item Number 5**

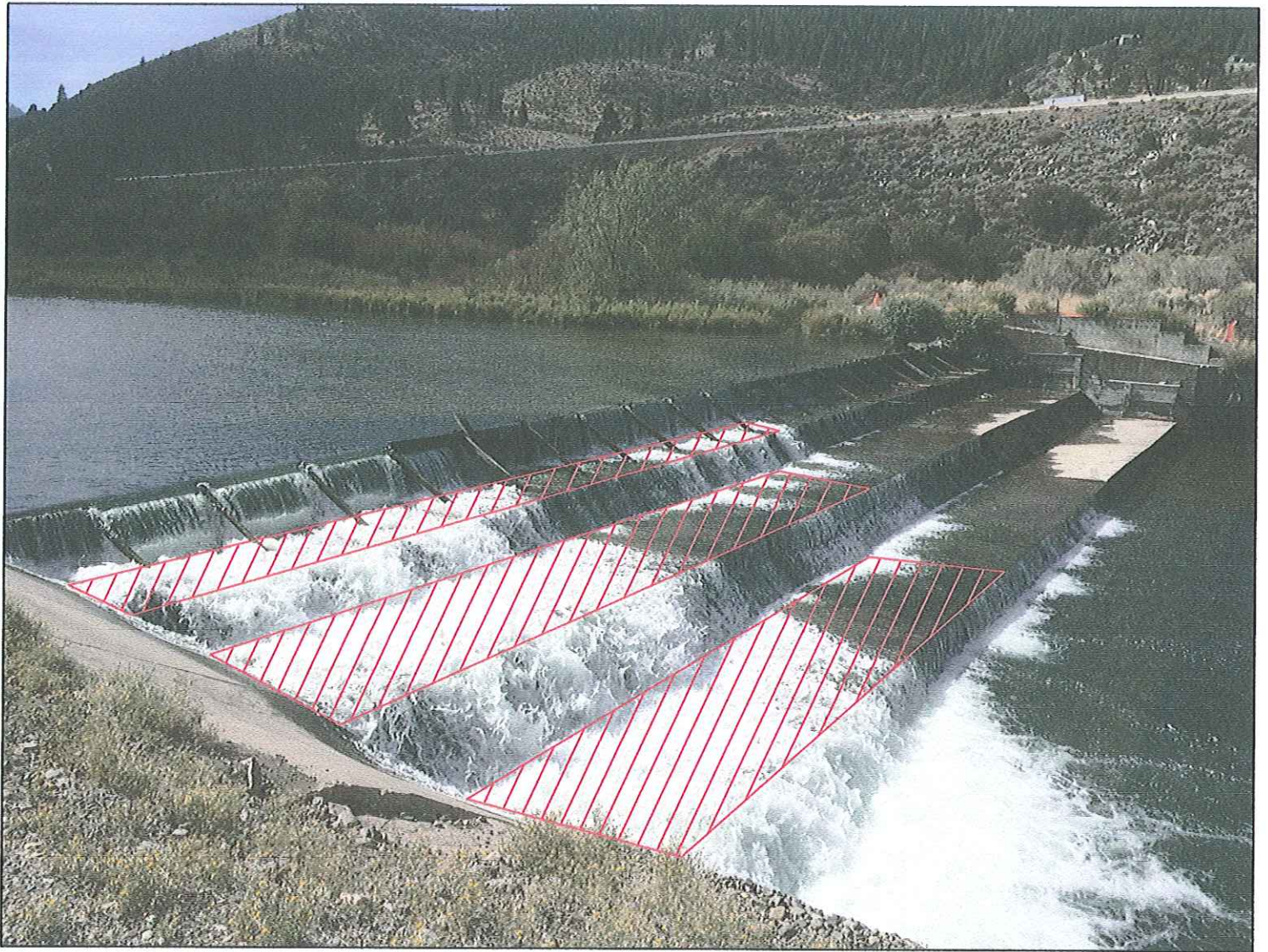
Contractor will provide labor and equipment to remove silt build-up from behind the dam splash boards as necessary to facilitate removal and replacement of all splash boards, and for stop log replacement at the top of the fish ladder. Contractor can access the river with equipment from the I-80 Freeway side of the dam and through the ditch located upstream of the dam. Sediment and brush can be disposed of "on-site" at an area designated by the TMWA representative. Brush can be removed, track rolled, and buried beneath the sediment (see attached photo).

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**ATTACHMENT B**





REPAIRS TO VERDI DAM - (DAM WIDTH APPROXIMATELY 180 FEET)  
TMWA WILL DIVERT AS MUCH WATER AS POSSIBLE THROUGH THE VERDI  
HYDRO CANAL.

- \* COVER APPROXIMATELY 90 FEET OF EXISTING DECKING ON EACH OF THE UPPER THREE DECKS AS SHOWN ABOVE. CONTRACTOR TO PROVIDE ALL TIMBER AND NAILS. TIMBER TO BE 3"X12"X12' UNTREATED #2 OR BETTER DOUGLASS FIR. 90# NAILS TO BE UTILIZED IN ATTACHING NEW TIMBER TO EXISTING DECKING. NEW TIMBER TO BE INSTALLED BY OVERLAPPING EXISTING TIMBER DECKING JOINTS.
  
- \* REPLACEMENT OF EXISTING DECK BOARDS SHALL BE AS DETERMINED BY THE TMWA PROJECT REPRESENTATIVE.





CONTRACTOR TO REMOVE AS MUCH SILT BUILD-UP FROM BEHIND THE DAM SPLASH BOARDS AS IS NECESSARY TO REMOVE AND REPLACE ALL SPLASH BOARDS AND STOP LOGS AT TOP OF FISH LADDER.

CONTRACTOR CAN ACCESS THE RIVER WITH EQUIPMENT FROM THE FREEWAY SIDE OF THE DAM THROUGH THE DITCH LOCATED UPSTREAM OF THE DAM.

SEDIMENT AND BRUSH CAN BE DISPOSED OF ON SITE IN AN AREA DESIGNATED BY THE TMWA REPRESENTATIVE. BRUSH CAN BE REMOVED, TRACK ROLLED, AND BURIED BENEATH SEDIMENT.





REPLACE ALL SPLASH BOARDS ON TOP OF DAM. SPLASH BOARDS ARE 3"X12"X8'. (CONTRACTOR TO VERIFY REQUIRED LENGTHS)  
REPLACE ALL 4"X6" SPLASH BOARD BRACING. INTEGRITY OF SPLASH BOARD BRACE PLATES TO BE EVALUATED AND CONTRACTOR TO REPLACE AS DIRECTED BY THE TMWA REPRESENTATIVE.





FISH LADDER REPAIRS - NEW LUMBER, NAILS, AND ALL HARDWARE PROVIDED BY CONTRACTOR.

- \* REMOVE EXISTING FISH LADDER AND RECONSTRUCT IN KIND WITH NEW #2 OR BETTER UNTREATED DOUGLASS FIR LUMBER.
- \* REMOVE AND REPLACE UPPERMOST STOP LOG PANEL.
- \* INSTALL NEW TIMBER STOP-LOG SUPPORTS ON DAM SIDE OF LADDER WITH SLOT CONFIGURATION ACCOMMODATING 6"X8" TIMBER. DO NOT CONSTRUCT STOP LOG PANELS BELOW UPPERMOST STOP LOG PANEL.
- \* ALL ATTACHMENT HARDWARE TO BE GALVANIZED.
- \* UTILIZE GALVANIZED CARRIAGE BOLTS, WASHERS, AND NUTS. COUNTER SINK NUT END OF CARRIAGE BOLT SO THAT HARDWARE DOES NOT PROTRUDE INTO THE PASSAGE WAYS ON EITHER SIDE OF THE LADDER.
- \* PROVIDE AS-BUILT DRAWING OF FISH LADDER CONSTRUCTION.