PURPOSE AND SCOPE OF WORK

1. WORK CONSISTS OF MAINTENANCE IMPROVEMENTS TO AN EXISTING CRIB DAM.

2. PROJECT INTENT IS TO MAKE MINOR AMENDMENTS TO RETURN THE DAM FACILITIES TO DESIGN CONSTRUCTION PHASES:

   - PROVIDE PHOTOGRAPH AND VIDEO DOCUMENTATION OF PRE-CONSTRUCTION PROJECT CENTERLINE FOR APPROVAL BY THE ENGINEER.
   - TRANSFER SURVEY CONTROL FROM DAM TO A SECURE AREA AWAY FROM CONSTRUCTION SITE.
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1. UNLESS OTHERWISE SPECIFIED, ALL BAGS SHALL HAVE A LENGTH OF 18 IN, WIDTH OF 12 IN, THICKNESS OF 3 IN, AND MASS OF APPROXIMATELY 33 LB. BAG DIMENSIONS ARE NOMINAL, AND MAY VARY LIGHTLY TO SATISFY REQUIREMENTS IN ASTM DESIGNATION D3786, FOR STRENGTH, RESILIENCE, AND ULTRAVIOLET STABILITY EXCEEDING 70% IN CONFORMANCE WITH THE REQUIREMENTS IN ASTM DESIGNATION D6600.

2. BAG MATERIAL: BAGS SHALL BE WOVEN POLYPROPYLENE, POLYETHYLENE OR POLYAMIDE FABRIC LOOMED TO HAVE A SURFACE DENSITY OF 8 TO 10 OZ/SQ YD. AND EXHIBIT A TEAR RESISTANCE OF 1,000 TO 1,500 LBS IN CONFORMANCE WITH THE REQUIREMENTS IN ASTM DESIGNATION D3786.

3. GRAVEL-FILLED BAGS SHALL BE UNIFORM IN SIZE AND SHAPE WITH UNIFORM FILL TO ENSURE EFFICIENT AND RELIABLE PERFORMANCE IN THE APPLICATIONS THEY WILL BE USED FOR. GRAVEL-BAG FILL MUST COMPLY WITH THE REQUIREMENTS OF ASTM DESIGNATION C33, WITH 90% PASSING A 4 IN SIEVE, 10% PASSING A 1/2 IN SIEVE, AND 30% PASSING A 1/8 IN SIEVE. GRAVEL FILL MUST MEET THE REQUIREMENTS OF ASTM DESIGNATION C33.

4. BAGS SHALL BE SHOWN TO BE WATER-PROOF AND WEATHER-PROOF IN CONFORMANCE WITH THE REQUIREMENTS OF ASTM DESIGNATION D473, ELSE THEY ARE NOT ACCEPTABLE. BAGS SHALL BE SHOWN TO BE WATER-PROOF IN CONFORMANCE WITH THE REQUIREMENTS OF ASTM DESIGNATION D3786.

5. NOTE: BAGS SHALL UNDERGO HERMETICITY TESTING TO ENSURE THEY ARE WATER-TIGHT. HERMETICITY TESTING SHALL BE PERFORMED IN CONFORMANCE WITH THE REQUIREMENTS OF ASTM DESIGNATION D473.

6. THE CONTRACTOR SHALL INSTALL GRAVEL BAG BERMS ALONG LEVEL CONTOURS IN THE FOLLOWING DISTRIBUTION BY THE PROJECT BIOLOGIST. IF SPECIFIED SEED IS UNAVAILABLE, SEED SUBSTITUTIONS MAY BE MADE AS APPROVED BY THE PROJECT BIOLOGIST.

7. THE CONTRACTOR SHALL KEEP DUST DOWN DURING WORKING AND NON-WORKING PERIODS. AS SUCH, DUST CONTROL MEASURES WILL BE IMPLEMENTED TO ENSURE A CLEAN ENVIRONMENT.

8. THE CONTRACTOR SHALL PICK UP WASTE, CONTROL WASTE, AND DISPOSE WASTE OFF-SITE. FOOD WASTE SHALL NOT BE DISCARDED OR CONTAMINATED WITH OTHER WASTES. WASTE DISPOSAL SHORELINE OR BAYS WILL BE CLEANED UP IMEDIATELY AFTER USE.

9. THE CONTRACTOR SHALL MANAGE AND RECLAIM AREAS TO PREVENT SEDIMENT FROM ENTERING THE NEARBY SURFACE DRAINAGES. SEDIMENT CONTROL MEASURES WILL BE IMPLEMENTED TO ENSURE A CLEAN ENVIRONMENT.

10. THE CONTRACTOR SHALL DESIGN THE TEMPLATE AND SUBMIT THE DESIGN FOR REVIEW PRIOR TO CONSTRUCTION. THE DESIGN WILL BE CONSIDERED AS APPROVED IF CONFORMING TO THE REQUIREMENTS OF THIS SPECIFICATION.


12. FILL MAY CONSIST OF IMPORTED EARTH MATERIAL THAT HAS LESS THAN 2 PERCENT OF ORGANIC CONTENT BY DRY WEIGHT, THAT MEETS OTHER REQUIREMENTS SHOWN IN THESE DRAWINGS, AND THAT IS APPROVED BY THE ENGINEER PRIOR TO PLACEMENT.

13. THE CONTRACTOR SHALL CONSIDER THE SOURCE OF MATERIALS, AS THERE IS NO AVAILABLE ACCESS FOR A COMPLETE MATERIALS SUBMISSION. MATERIAL SUBMISSIONS MAY BE SUBMITTED AS REQUIRED BY THE CONTRACTOR AND ENGINEER.

14. THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A LOCAL SOURCING HISTORY OF MATERIAL TO BE USED AT THE SITE. THE Sourcing HISTORIES WILL BE PERSONALIZED TO ENSURE THAT THE SITE IS SUPPLYING THE BEST MATERIAL.

15. THE CONTRACTOR SHALL USE ONE UPPER DRIVING TEMPLATE TO MAINTAIN PILE POSITIONING. THE TEMPLATE WILL BE DESIGNED TO MAINTAIN THE PILE IN THE CENTER OF THE RIM AND TO AVOID PLANK DAMAGE.

16. THE ROCK MUST MEET THE CALTRANS REQUIREMENTS FOR APPARENT SPECIFIC GRAVITY, ABSORPTION, AND DURABILITY (SECTION 72-02B).

17. THE CONTRACTOR SHALL DESIGN AND USE ONE UPPER DRIVING TEMPLATE TO MAINTAIN PILE POSITIONING. THE TEMPLATE WILL BE DESIGNED TO MAINTAIN THE PILE IN THE CENTER OF THE RIM AND TO AVOID PLANK DAMAGE.
1. Timbers shall be construction grade heart redwood conforming to specifications of the California Redwood Association for such material or equivalent.

2. Existing degraded timbers to be replaced with equivalent timbers may include 6" X 12" (lengths up to 3.5 feet), 6" X 16" (lengths up to 4 feet), 12" X 12" (lengths up to 20 feet), 12" X 16" (lengths up to 23 feet), and filler blocking cut from 12" X 24" X 3' timbers. Two 12 X 8 boards nailed together may be used in place of one 12 X 16 board.

3. Vertical connectors at the end of replaced timbers shall be 1" X 36" galvanized in 10-foot pre-drilled holes. They shall be connected as the replaced connectors. Screws shall be used to hold them in place.

4. Horizontal connectors at each end of replaced timbers shall be 3/4" X 36" hot-dipped galvanized bolts - with hot-dipped galvanized ogee washers and nuts at each end: two at each end placed 7/8" from holes to replace two existing bolts at each end.

5. Submittal for timber replacement work plan and materials shall be submitted to the engineer for review and acceptance prior to construction.

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SUBMITTALS:

1. The following submittals shall be submitted by the contractor prior to construction:
   - Pre-construction photographs and video documentation.
   - Submittal to engineer with copy to designer.
   - Sheet piles work plan equipment and materials submitted to engineer.
   - Rock rip-rap work plan submitted to designer, including gross vehicle weight of expected construction equipment.
   - Earthwork work plan submitted to designer.
   - Other submittals from contract documents.
   - Site restoration and permanent deck work plan submitted to designer.
   - Timber replacement work plan and materials submitted to engineer.
   - Other submittals specified elsewhere in the contract documents.

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ACCESS ROAD
3170
3150
3180
3160
FORMER ROCK DEPOSITION SITE/PROPOSED ROCK BORROW AREA - TEMPORARY IMPACT AREA ~ 0.35 ACRES

CHINA FLAT DAY USE AREA - POTENTIAL CONSTRUCTION LAYDOWN AREA (E) PRIMARY ROAD

RESTORED ACCESS ROAD - PERMANENT IMPACT AREA ~ 0.19 ACRES

SEE SHEET D2.01 GATE - SEE SHEET D2.03

BEARDSLEY AFTERBAY DAM NO. 62-7
TUOLUMNE COUNTY
TRI-DAM PROJECT
MAINTENANCE PROJECT RIPRAP BORROW AREA PLAN

BACKGROUND IMAGE: GOOGLE EARTH DATED 6/22/2016

CONTOUR ELEVATIONS IN FEET

SCALE IN FEET

06/21/2019

CONDOR EARTH
FORMER ROCK DEPOSITION AND STOCKPILE SITE/PROPOSED ROCK BORROW AREA.
TEMPORARY IMPACT AREA ~ 0.35 ACRES (SEE NOTES 3, 4 AND 5)

EXISTING SPIELWAY CHANNEL

OHWM EXISTING SPILLWAY CHANNEL
INSTALL EROSION CONTROL

SPIELWAY BRIDGE INSTALLMENT HEIGHT LIMIT 20 FEET

2' WIDE DITCH SEE RESTORED ACCESS ROAD. PERMANENT IMPACT AREA ~ 0.19 ACRES (SEE NOTES 1 AND 2)

MIDDLE FORK STANISLAUS RIVER

IMPACTS BELOW TOP OF BANK
ITEM
EST. QUANTITY

PERMANENT IMPACTS

RESTORED ACCESS ROAD
8,442 SF
CUT FOR ROAD
-100 CY
FILL FOR ROAD
+1,000 CY
CUT FOR WORK AT DAM
-1,800 CY

TEMPORARY IMPACTS

PROPOSED ROCK BORROW AREA
15,212 SF

CUT FOR ROAD
-100 CY
FILL FOR ROAD
+1,000 CY
CUT FOR WORK AT DAM
-1,800 CY

06/21/2019
BEARDSLEY AFTERBAY DAM NO. 62-7
TUOLUMNE COUNTY
TRI-DAM PROJECT
MAINTENANCE PROJECT
RIPRAP BORROW AREA
GRADING PLAN