BUREAU OF RECLAMATION

COLUMBIA-CASCADES AREA OFFICE

WRITTEN SPECIFICATIONS SIGNATURE SHEET

Specifications No: 140R1026B0002

Specifications Title: SPEELYI BEACH SHORELINE PROTECTION

Project Title: CLE ELUM POOL RAISE: SPEELYI BEACH SHORELINE PROTECTION

Region: COLUMBIA PACIFIC NORTHWEST INTERIOR REGION 9

Prepared: STACEY CARLSON Digitally signed by STACEY CARLSON Date: 2026.02.10 10:40:30 -07'00'

Technical Approval: MATTHEW DEAMICO Digitally signed by MATTHEW DEAMICO Date: 2026.02.24 15:14:34 -08'00' P.E.

AMD/MOD No.	Technical Approval Signature:	Prepared By Signature:	Revised Specifications
Amend No. P00002	MATTHEW DEAMICO Digitally signed by MATTHEW DEAMICO Date: 2026.07.09 07:49:52 -07'00'	STACEY CARLSON Digitally signed by STACEY CARLSON Date: 2026.07.08 09:44:37 -06'00'	13 00 10

SECTION 13 00 10
FISH HABITAT LOG STRUCTURES

PART 1 GENERAL

1.01 MEASUREMENT AND PAYMENT

A. Log Structures:

1. Payment: Lump sum as offered in the Price Schedule's.

1.02 SUBMITTALS

A. Submit the following in accordance with Section 01 33 00 Submittals.

B. RSN 13 00 10-1, Log Structure Construction Plan

1. Describe proposed log sizes, arrangements and proposed compaction methods to be used in the construction of the fish habitat log structures.

PART 2 PRODUCTS

2.01 LOGS

A. Source logs locally from the project use area. See Section 31 11 00 Tree Removal for additional information regarding the harvest of trees.

B. Species: Conifer tree species only. Do not use cottonwood or other hardwoods

C. Diameter: Minimum log diameter of 15-inches measured at breast height.

D. Length: Minimum of 50-foot log length and maximum of 100-foot log length.

E. Root Wads: Root wads are not required to be intact for the log structures. If the root wads are intact, they shall be utilized on the exposed end of the log structure.

F. Branches: Keep branches intact as much as possible so they may be incorporated into each structure.

G. Embedment: Minimum embedment in the reservoir shall be ***50%*** of each log's length.

PART 3 EXECUTION

3.01 CONSTRUCTION

A. Install fish habitat log structures according to the construction detail shown on the drawings and in locations as shown on the drawings.

B. Backfill after log placement with native soil used to key log into the reservoir bed. The contractor shall compact backfill using mechanical equipment such as the bucket of an excavator or a vibratory compactor. Jetting, sluicing, or water settling will not be permitted. Backfill material shall be placed in maximum 12-inch lifts and compacted thoroughly. No testing of compacted density will be performed.

END OF SECTION