Special Provisions

Webb Road Bridge and Sweetwater Creek Stream Design
Nez Perce County, Idaho

for
Nez Perce Tribe
Department of Fisheries Resources Management
Watershed Division

October 8, 2025

412 East Parkcenter Boulevard, Suite 305
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GeoEngineers

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File No. 0571-033-00
October 8, 2025

Prepared for:

Nez Perce Tribe
Department of Fisheries Resources Management
Watershed Division
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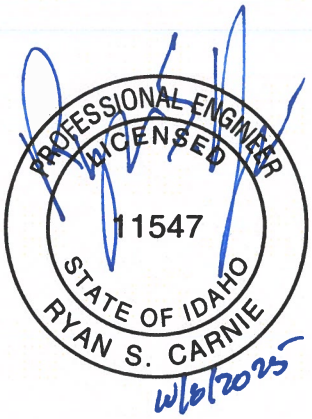
Lapwai, Idaho 83540

Attention: Shawn Kaschitter



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Special Provisions

This project is to remove the existing bridge on Webb Road and replace the bridge with new prestressed slab girders on pile foundations. The Webb Road bridge is located over Sweetwater Creek and is approximately 2.5 miles southwest of Sweetwater, Idaho.

The following special provisions, and all addenda issued, supplement or modify the 2023 Idaho Transportation Department Standard Specifications for Highway Construction, April 2023 Standard Drawings, and Special Provision-State-Aid (SP-SA).

S206 SP - Floodplain Fill

206.01 DESCRIPTION

This work consists of placing floodplain fill as shown on the contract drawings.

206.02 MATERIALS

Use excavated on-site materials identified as Streambed Sediment in pay item S913-05A “Main Channel Riffle Streambed”. Excludes organic or otherwise unsuitable materials identified by the Engineer.

206.03 CONSTRUCTION REQUIREMENTS

Place floodplain fill on the floodplain following clearing and grubbing. Place in 1-foot lifts and machine compact each lift. Do not compact the final lift. Place the final lift as defined in pay item 621-05A, Seed Bed Preparation.

206.04 METHOD OF MEASUREMENT

The Engineer, Contracting Authority or assigned other will measure from field survey of cross sections using average end area methods.

206.05 BASIS OF PAYMENT

Payment will be made for acceptable quantities at the contract unit prices as follows:

Pay Item	Pay Unit
Floodplain Fill	CY

S901 SP-Large Woody Material Structures

901.01 DESCRIPTION

Installation of large woody material (LWM) structures, including ballast boulders in the main channel, side channel and adjacent floodplain as shown on the Drawings and as recommended by the Engineer or the Contracting Officer.

901.02 MATERIALS

901.02(A) Ballast Boulders

Furnish hard durable rock that is resistant to weathering and water action, free of organic or other unsuitable material, similar in color to those in the area. Do not use shale, rock with shale seams or other fissile or fissured rock that may break into smaller pieces in the process of handling and placing.

Ballast boulders may be sourced from material stockpiled under Section 205-025A “Channel Change Excavation”.

Ballast boulders shall have a minimum diameter of 18 inches measured on the secondary axis.

901.02(B) Log with/without Rootwad

Acceptable conifer species include Ponderosa Pine (*Pinus ponderosa*) and Douglas Fir (*Pseudotsuga menziesii)*. Additional conifer species shall be reviewed and may be accepted by the Contracting Officer.

Log dimensions shall match those specified in the Plans and be within the tolerances for length listed below. Log length is measured from the cut end of the log to the beginning of the rootwad mass. Each log with rootwad shall have a minimum trunk diameter at breast height (DBH) as specified in the plans with tolerances for DBH listed below, measured 4.5 feet above the ground when the tree is standing. The cut end of the log shall be no more than 4 inches narrower than the DBH. The rootwad diameter, if required shall be a minimum of 3.0 feet with roots intact.

Logs shall, to the extent possible, include branches and limbs, and rootwads.

Logs and rootwads shall be free of soil and rocks, free of rot and disease and shall be structurally sound as accepted by the Engineer. Cleaning shall not strip logs of bark, small branches and small roots.

Provide timber pile material as specified in:

Timber Piles		710.05
Log Type	**Length Range (ft)**	**DBH Range (ft)**
Type B (with rootwad)	36 - 44	1.2 - 1.7
Type C (with rootwad)	27 - 33	1.5 - 2.0
Type D (without rootwad)	27- 33	1.5 – 2.0
Type E (with rootwad)	17 - 23	1.5 - 2.0
Type P (piles without rootwad)	10 min	0.7 – 1.0

901.02(C) Racking Logs

Treetops, limbs and other woody material created from the harvest and loading of the trees are also to be delivered to the project. Racking lo material and slash must be fresh (green) and flexible, not dry and brittle. Racking log material and slash diameter shall be between 2 and 4 inches and individual lengths shall be a maximum of 10 feet.

901.03 CONSTRUCTION REQUIREMENTS

The Contractor shall exercise care when installing the LWM Structures to ensure that the method of installation minimizes disturbance of waterways and prevents sediment or pollutant discharge into water.

Construction of the LWM Structures shall be in accordance with the following:

901.03(A) Large Woody Material (LWM) Structures

The Contractor shall install each LWM Structure at the locations shown in the Plans or as approved by the Engineer. Each log shall be installed with the length of embedment and orientation shown in the Plans. The Contractor shall exercise care when installing and transporting the log to avoid damage to the log or breakage of roots. Rootwads shall remain intact during stockpile installation.

Includes excavation and stockpiling.

Acceptance of LWM structures will be based upon inspection by the Engineer or their representative.

Installation shall be performed under dewatered or otherwise dry channel conditions.

LWM structures shall be installed as indicated on the Drawings and/or as guided by the contracting officer or their designated representative. LWM Structure installation requires on-site guidance from the contracting officer or their designated representative.

Members shall be installed in trenches, rather than in wholesale bank excavation, to the extent possible, to promote greater resistance to flow.

Racking members can be installed in and amongst the larger trees/logs.

Structures shall be backfilled and compacted as each layer is installed, where there are multiple layers. The backfill will consist of the material excavated from the receiving hole and shall be compacted with construction equipment. Excess excavated material shall be removed from structure location and placed on site at locations indicated on the Drawings or approved by the contracting officer. Structures shall be constructed, backfilled and graded to appear natural.

901.03(B) Large Woody Material Piles

Piles shall be installed to the depth indicated on the Drawings in conformance with the HIP General Conservation Measures.

Pile-driving shall be completed with a vibratory head. An impact hammer may only be used if the pile driving occurs in the dry with isolation structures in place.

Perform a pull test on one pile (min.) per structure using a force gauge. A minimum of 2,500 pounds of resistance must be achieved for each pile tested before the LWM structure is accepted. Submit record of pull tests to Contracting Officer.

901.04 METHOD OF MEASUREMENT

The Engineer, Contracting Authority or assigned other will measure from field observation of placed large woody material structures.

Logs with/without rootwad will be measured per each log.

Ballast boulders will be measured per each boulder.

Racking logs are incidental to this section are will not be measured.

901.05 BASIS OF PAYMENT

Payment will be made for acceptable quantities at the contract unit prices as follows:

Pay Item	Pay Unit
Ballast Boulders	Each
Logs With Rootwads	Each
Logs Without Rootwads	Each
Pile Logs	Each

S913 SP – Main Channel Riffle Streambed

913.01 DESCRIPTION

This work consists of furnishing, mixing and placing aggregates for the main channel of the type specified at the locations and in conformity with the lines and dimensions shown in the Plans or established by the Engineer.

This work consists of screening and stockpiling material defined in pay item 205-025A “Channel Change Excavation”. Screen material into two categories as identified in Materials in this specification.

913.02 MATERIALS

Use excavated on-site materials that are left after screening for material defined in pay item S913-05A, Main Channel Riffle Streambed. Excludes organic or otherwise unsuitable materials identified by the Engineer.

Screen excavated material as follows and stockpile on site:

Material Class	Maximum Particle Dia. (in.)
Streambed Cobbles	18
Streambed Sediment	3

Streambed sediment may also be provided as specified in Section 703, Aggregates, Section 703.04, Aggregate for Untreated Base, Treated Base and Road Mix Table 703.04-1 for a 2-inch maximum nominal size.

913.02(A) Main Channel Riffle Streambed

Streambed Mix shall be a mix of the following aggregates with the associated ratios:

Streambed Sediment:	30 percent, by volume
Streambed Cobbles:	70 percent, by volume

913.03 CONSTRUCTION REQUIREMENTS

Furnish a mixture of soil, gravel, cobble and boulders to simulate a natural streambed. Place streambed simulation material on a prepared surface to form a well-graded, low permeability mass, similar in appearance and texture to the natural streambed.

913.03(A) Place main channel riffle streambed material

Place main channel riffle streambed material in one or more layers with a layer depth not exceeding 12 inches. Place material by methods that do not cause segregation or damage to the prepared surface. Place or rearrange individual rocks by mechanical methods to obtain a compact low permeability mass matching streambed simulation details. Fill voids before placing the next lift and compact each layer until there is no visible evidence of further consolidation. Wash in streambed sediment until surface flow is maintained. Surface flow containment shall be observed and approved by the Engineer or the Contracting Officer.

913.04 METHOD OF MEASUREMENT

No field measurement of material placement quantities will be conducted during construction.

913.05 BASIS OF PAYMENT

Payment will be made for acceptable quantities at the contract unit prices as follows:

Pay Item	Pay Unit
Main Channel Riffle Streambed	CY