

SOLICITATION, OFFER, AND AWARD <i>(Construction, Alteration, or Repair)</i>	1. SOLICITATION NO. 12010919R0005	2. TYPE OF SOLICITATION <input type="checkbox"/> SEALED BID (IFB) <input type="checkbox"/> NEGOTIATED (RFP)	3. DATE ISSUED 08/02/2019	PAGE OF PAGES 1 70	
	IMPORTANT -- The "offer" section on the reverse must be fully completed by offeror.				

4. CONTRACT NO.	5. REQUISITION/PURCHASE REQUEST NO. 955730	6. PROJECT NO.
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7. ISSUED BY ALASKA REGIONAL OFFICE 709 WEST 9TH STREET JUNEAU AK 99802	CODE 0109	8. ADDRESS OFFER TO Mari Meiners, USFS Addresses for delviery provided on page 3 of the SF-1442
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9. FOR INFORMATION CALL: 	a. NAME MARI MEINERS	b. TELEPHONE NO. (Include area code) (NO COLLECT CALLS) 907-586-8746
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SOLICITATION

NOTE: In sealed bid solicitations "offer" and "offeror" mean "bid" and "bidder."

10. THE GOVERNMENT REQUIRES PERFORMANCE OF THE WORK DESCRIBED IN THESE DOCUMENTS (Title, identifying no., date)

This solicitation/contract including all terms, conditions and attachments.

11. The Contractor shall begin performance _____ 10 _____ calendar days and complete it within _____ 0 _____ calendar days after receiving <input checked="" type="checkbox"/> award, <input type="checkbox"/> notice to proceed. The performance period is <input checked="" type="checkbox"/> mandatory <input type="checkbox"/> negotiable. (See <u>Section F.1, FAR 52.211-10</u> .)

12a. THE CONTRACTOR MUST FURNISH ANY REQUIRED PERFORMANCE AND PAYMENT BONDS? (If "YES", indicate within how many calendar days after award in Item 12b.) <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	12b. CALENDAR DAYS 10
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13. ADDITIONAL SOLICITATION REQUIREMENTS:

a. Sealed offers in original and _____ copies to perform the work required are due at the place specified in Item 8 by _____ 1000 _____ (hour) local time
_____ 09/04/2019 _____ (date). If this is a sealed bid solicitation, offers will be publicly opened at that time. Sealed envelopes containing offers shall be
marked to show the offeror's name and address, the solicitation number, and the date and time offers are due.

b. An offer guarantee is, is not required.

c. All offers are subject to the (1) work requirements, and (2) other provisions and clauses incorporated in the solicitation in full text or by reference.

d. Offers providing less than _____ 30 _____ calendar days for Government acceptance after the date offers are due will not be considered and will be rejected .

OFFER (Must be fully completed by offeror)

14. NAME AND ADDRESS OF OFFEROR (Include ZIP Code)	15. TELEPHONE NO. (Include area code)
	16. REMITTANCE ADDRESS (Include only if different than item 14.)
CODE	FACILITY CODE

17. The offeror agrees to perform the work required at the prices specified below in strict accordance with the terms of this solicitation, if this offer is accepted by the Government in writing within _____ calendar days after the date offers are due. (Insert any number equal to or greater than the minimum requirement stated in item 13d. Failure to insert any number means the offeror accepts the minimum in item 13d.)

AMOUNTS

18. The offeror agrees to furnish any required performance and payment bonds.

19. ACKNOWLEDGEMENT OF AMENDMENTS

(The offeror acknowledges receipt of amendments to the solicitation -- give number and date of each)

AMENDMENT NO.										
DATE.										

20a. NAME AND TITLE OF PERSON AUTHORIZED TO SIGN OFFER (Type or print)	20b. SIGNATURE	20c. OFFER DATE
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AWARD (To be completed by Government)

21. ITEMS ACCEPTED:

Continued...

22. AMOUNT	23. ACCOUNTING AND APPROPRIATION DATA		
24. SUBMIT INVOICES TO ADDRESS SHOWN IN (4 copies unless otherwise specified)		ITEM	25. OTHER THAN FULL AND OPEN COMPETITION PURSUANT TO <input type="checkbox"/> 10 U.S.C. 2304(c) () <input type="checkbox"/> 41 U.S.C. 253(c) ()
26. ADMINISTERED BY ALASKA REGIONAL OFFICE 709 WEST 9TH STREET JUNEAU AK 99802	CODE	0109	27. PAYMENT WILL BE MADE BY

CONTRACTING OFFICER WILL COMPLETE ITEM 28 OR 29 AS APPLICABLE

<input type="checkbox"/> 28. NEGOTIATED AGREEMENT (Contractor is required to sign this document and return _____ copies to issuing office.) Contractor agrees to furnish and deliver all items or perform all work requirements identified on this form and any continuation sheets for the consideration stated in this contract. The rights and obligations of the parties to this contract shall be governed by (a) this contract award, (b) the solicitation, and (c) the clauses, representations,	<input type="checkbox"/> 29. AWARD (Contractor is not required to sign this document.) Your offer on this solicitation is hereby accepted as to the items listed. This award consummates the contract, which consists of (a) the Government solicitation and your offer, and (b) this contract award. No further contractual document is necessary.
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30a. NAME AND TITLE OF CONTRACTOR OR PERSON AUTHORIZED TO SIGN (Type or print)	31a. NAME OF CONTRACTING OFFICER (Type or print)		
30b. SIGNATURE	30c. DATE	31b. UNITED STATES OF AMERICA BY	31c. DATE

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED
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NAME OF OFFEROR OR CONTRACTOR

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	<p>This requirement is for reconstruction of a portion of the Anan Wildlife Observatory Trail in Wrangell Alaska. The work to be performed has been updated since the original summary in the presolicitation notice was posted. The period of performance for this work is from date of award through August 1, 2020. However, on-site activities at the Anan Wildlife Observatory Trail may only be performed during the period August 25, 2019 through July 5, 2020.</p> <p>This requirement is being set aside for HUBZone Small Business Concerns.</p> <p>A bid guarantee is required. Bid guarantees and proposals may be delivered to the Contracting Officer at the following addresses:</p> <p>e-mail for proposal only: mari.meiners@usda.gov (bid bond cannot be emailed or faxed)</p> <p>US Postal Service: Mari Meiners PO Box 21628 Juneau, AK 99802</p> <p>Hand Deliver/UPS/FedEx/DHL, etc: Mari Meiners 709 W. 9th Street Mail Room 541 Juneau, AK 99801</p> <p>Offerors are advised that their SAM account must be active at the date/time set for receipt of proposals. Updates to expired accounts are not done immediately and may take several weeks.</p> <p>***** Delivery: 08/01/2020 Delivery Location Code: 0113 WRANGELL DISTRICT 525 BENNETT STREET WRANGELL AK 99929 US</p> <p>Period of Performance: 09/15/2019 to 08/01/2020</p> <p>Continued ...</p>				

CONTINUATION SHEET

REFERENCE NO. OF DOCUMENT BEING CONTINUED
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NAME OF OFFEROR OR CONTRACTOR

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
001	Anan Trail Reconstruction Project				

PART 1 - THE SCHEDULE
SECTION B - SUPPLIES OR SERVICES AND PRICES/COSTS

Anan Trail Reconstruction
Wrangell Ranger District, Tongass National Forest
Wrangell, Alaska

B.1 SCHEDULE OF ITEMS

NOTE: Offerors must provide an offer on ALL ITEMS, INCLUDING ALL OPTION ITEMS.

ITEM	DESCRIPTION	METHOD OF MEASUREMENT*	EST. QTY.	UNIT	UNIT PRICE	AMOUNT
<u>LINE ITEM 1 - BASE: "Lagoon Trail" and "Cabin Area Trails"</u>						
1.1	Mobilization	LSQ	1		\$_____	\$
1.2	Solid Rock Removal (SRR)	AQ	10	LF	\$_____	\$
1.3	Boardwalk Bridge (BWB)	AQ	50	LF	\$_____	\$
1.4	Aggregate Surfacing (AS)	AQ	1648	LF	\$_____	\$
1.5	Aggregate Surfacing Heavy Clearing (AS-HC)	AQ	284	LF	\$_____	\$
1.6	Aggregate Surfacing with Retaining Log (AS-RL)	AQ	125	LF	\$_____	\$
1.7	Concrete Step (CS)	AQ	70	EA	\$_____	\$
1.8	Miscellaneous Work (MW)	LSQ	1		\$_____	\$
1.9	Laborer Work Hours	AQ	40	EA	\$_____	\$
1.10	Demolition and Removal	LS	1		\$_____	\$
TOTAL BASE PRICE:						\$

LINE ITEM 2 - OPTION ITEM 1 – Install Bear Cove Bridge

2.1	Bridges install and related items	LSQ	1		\$_____	\$
2.2	Bridge Stringer Protection (BSP)	AQ	120	LF	\$_____	\$
TOTAL OPTION ITEM #1:						\$

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LINE ITEM 3 - OPTION ITEM 2 - "Beach Trail" - Station 0+00 through 19+00

3.1	Boardwalk Infill (BWI)	AQ	21	LF	\$ _____	\$
3.2	Miscellaneous Work (MW)	LSQ	1	EA	\$ _____	\$
3.3	Aggregate Surfacing w/ Heavy Clearing (AS-HC)	LF	16	EA	\$ _____	\$
3.4	Bridge Stringer Protection (BSP)	LF	390	LF	\$ _____	\$
3.5	Guardrail Clean-up (GCU)	LF	664	LF	\$ _____	\$

TOTAL OPTION ITEM #2: _____ \$

TOTAL PRICE FOR BASE + ALL OPTIONS: \$ _____

* METHOD OF MEASUREMENT: AQ = ACTUAL QUANTITIES; DQ = DESIGNED QUANTITIES;
LSQ = LUMP SUM QUANTITIES; VQ = VEHICLE QUANTITIES

OFFEROR MUST ALSO COMPLETE "OFFER" PORTION ON PAGES 2 & 3 OF STANDARD FORM 1442

B-2 - NOTE: Payment for bond premiums in accordance with Clause 52.232-5, Payments under Fixed- Price Construction Contracts, shall not be in addition to the contract price. Include bond payments under line item 1.1, Mobilization.

Payment will be made on actual work performed as described in FP-14 109.01, unless otherwise noted.

Payment will be made only for those items listed on Bid Schedules. All other work is incidental to these pay items.

Additional Vendor Information for Contract Administration

Contact Name:	Phone No:
Signature:	
Cell Phone No:	DUNS No:
Email:	
SAM Account Expiration Date:	

NOTE: Offerors must submit prices for all items included in the price schedule. Mobilization does not include on-site construction activities including the movement of personnel, materials or equipment within the project site.

SECTION C - DESCRIPTION/SPECIFICATIONS/WORK STATEMENT

**Anan Trail Reconstruction
Wrangell Ranger District, Tongass National Forest
Wrangell, Alaska**

C.1 PROJECT DESCRIPTION AND LOCATION

- (a) Description: The work is the reconstruction of a portion of the Anan Wildlife Observatory Trail. Major work items include the demolition and removal/reuse of existing step-and-run boardwalk trail and other timber structures, various types of aggregate surfacing, concrete steps, boardwalk infill, installation of two bridges, solid rock removal, and miscellaneous work. Perform on-site activities only during the August 25, 2019 through July 5, 2020.

There are a **Base Bid** and **two option items** described below:

BASE BID:

- Mobilization
- All work on “Lagoon Trail Segment” except Bridge Stringer Protection (BSP) and Guardrail Clean-up (GCU)
- All work on the “Cabin Area Trails”
- Laborer Work on entire project
 - Demolition and removal or reuse of trail structures on “Lagoon Trail Segment”

OPTION ITEM #1

- Installation of one bridge on Lagoon Trail and related Bridge Stringer Protection (BSP)

OPTION ITEM #2

- Work on the “Beach Trail” not included elsewhere
- Bridge Stringer Protection (BSP) on all work except that in Option Item #1
- Guardrail Clean-up (GCU) on the entire project.

- (b) Location and Facilities: Anan Wildlife Observatory is located about 30 air miles southeast of Wrangell, AK at lat/long 56.183, 131.890. It is typically accessed by boat from Wrangell. There are no utilities at the project site. Cell phone service is not available in the vicinity of the project site. The Anan Bay Cabin may be rented by the contractor under the same rules that apply to the general public. No camping at the project site outside the cabin is allowed. No dogs are allowed at the project site. Meet the requirements of Section H, Use of Premises.
- (c) Price Range: Between \$250,000 and \$500,000.
- (d) Pre-bid Tour: No pre-proposal tour will be held. Interested parties may visit the site under the same conditions as the general public.
- (e) Period of Performance: See Section F, Clause 52.211-10, and Section H, paragraph H.3, ‘Use of Premises’, for important details regarding on-site work scheduling requirements and potential timeframes when closure may not be permitted.
- (f) Government-Furnished Property: The Government will supply the following items at the locations described. The contractor is responsible for transportation of these materials to the project site.
- 1). One 60'-long x 5-3/4" thick glulam girder to be used as a slab bridge for Option Item #1. There are two girders of the same length located together. Use the 5-3/4" thick girder (see drawings). The girder is in a rockpit locally known as the “Garnet Pit”, on the Garnet Road (road #50022), about 11 miles southeast of Wrangell, AK at lat/long 56.320084, 132.263022. The beams are stored behind culverts that may have to be moved to load the girder. Replace any moved materials to their original location. The gate to the

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rockpit is typically locked, obtain access through the Forest Service office in Wrangell. Provide transportation for the beams from the Garnet Pit to the project site.

- 2). Standing live timber collected onsite for Retainer Logs for Type AS-RL
- 3). Existing boardwalk and timbers that will be reused for various structures.
- 4). 70 Concrete Steps located in Petersburg, Alaska. Steps are palletized three or four per pallet. Some pallets may be damaged. The contractor is responsible for transportation from the stockpile location in Petersburg to the project site. The Government will provide the specific location of the stockpile at the prework meeting. Return unused steps to the Forest Service warehouse in Wrangell.

C.2 TECHNICAL SPECIFICATIONS

(a) The technical specifications included in Section J are hereby made part of this solicitation and any resultant contract.

(b) The following specifications (including Region 10 Specifications and Special Project Specifications) are hereby made a part of this solicitation and any resultant contract:

1. STANDARD SPECIFICATIONS FOR CONSTRUCTION OF TRAILS AND TRAIL BRIDGES ON FOREST SERVICE PROJECTS, 10/30/2014. Note that this version supersedes EM-7720-103, Standard Specification for Construction and Maintenance of Trails (1996).

See:

http://www.fs.fed.us/recreation/programs/trailmanagement/documents/plans/supporting_documents/Trail_Specifications.pdf

2. STANDARD SPECIFICATIONS FOR CONSTRUCTION OF ROADS AND BRIDGES ON FEDERAL HIGHWAY PROJECTS (FP-14 U.S. Customary Units) are included by reference. The requirements contained in these specifications are hereby made a part of this solicitation and any resultant contract.

FLH Standard Specifications (FP-14) can also be obtained from the Federal Highway Administration Home Page at: <https://flh.fhwa.dot.gov/resources/specs/>

C.3 SPECIAL PROJECT SPECIFICATIONS FOR CONSTRUCTION OF TRAILS AND TRAIL BRIDGES ON FOREST SERVICE PROJECTS

Section 901—Abbreviations, Acronyms, Terms, and Definitions

Section 902—Intent of Contract

Section 904—Control of Materials

Section 906—Measurement and Payment

Section 907—Mobilization

Section 908—Construction Staking, Flagging, and Cleanup

Section 909—Maintenance for Traffic

Section 910—Quality Assurance and Quantity Measurement

Section 911—Clearing and Grubbing

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Section 912—Excavation and Embankment

Section 913 – Demolition and Removal or Recycling of Trail Structures

Section 930—Solid Rock Removal

Section 937—Timber Structures

Section 941—Aggregate and Stone Construction

Section 942—Concrete Steps

Section 950 – Other Work

Section 962—Timber Stringer Bridges

Section 901—ABBREVIATIONS, ACRONYMS, TERMS, AND DEFINITIONS

901.01 Terms, Organizations, and Standards

(a) Specification Terms. These specifications are generally written in the imperative mood. In sentences using the imperative mood, the subject “the Contractor,” is implied. Also implied in this language is “shall,” “shall be,” or similar words or phrases. In material specifications, the subject may also be the supplier, fabricator, or manufacturer supplying material, products, or equipment for use on the project. Wherever “directed,” “required,” “prescribed,” or similar words are used, the “direction,” “requirement,” or “order” of the CO is intended. Similarly, wherever “approved,” “acceptable,” “suitable,” “satisfactory,” or similar words are used, they mean “approved by,” “acceptable to,” or “satisfactory to” the CO. The word “will” generally pertains to decisions or actions of the CO. Whenever in these specifications, or in other contract documents, the following terms (or pronouns in place of them) are used, the intent and meaning shall be interpreted as follows: reference to a specific standard, test, testing method, or specification shall mean the latest published edition or amendment that is in effect at the solicitation issue date for the public works contracts.

(b) Abbreviations and Acronyms

AASHTO	American Association of State Highway and Transportation Officials
AGGR	Aggregate
AQ	Actual Quantities
AS	Aggregate Surfacing
AS-RL	Aggregate Surfacing with Retainer Log
AS-HC	Aggregate Surfacing with Heavy Clearing
ASTM	American Society for Testing and Material
AWPA	American Wood Preservers Association
BWA	Type A Boardwalk
BWB	Type B Boardwalk
BWR	Boardwalk Removal
CL	Centerline
CO	Contracting Officer
CS	Concrete Step
DQ	Design Quantities
EA	Each
HR	Hour
LF	Linear Feet
LS	Lump Sum
LSQ	Lump Sum Quantities
MW	Miscellaneous Work
NW	No Work

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NBS	National Bureau of Standards
PS	Product Standard issued by the U.S. Department of Commerce
RH	Remove Handrail
RRW	Rock Retaining Wall
SHT	Sheet
SRR	Solid Rock Removal
WCLIB	West Coast Lumber Inspection Bureau
WWPA	Western Wood Products Association

901.02—TERMS AND DEFINITIONS

When the following terms, or pronouns in place of them, are used in these specifications or in other contract documents, the intent and meaning are as follows:

Base Course. The layer or layers of specified material of designed thickness placed on a trailbed to support surfacing.

Batter. A backward and upward slope of the face of a wall.

Berm. The ridge of material formed on the outer edge of the trail that projects higher than the tread.

Borrow. Suitable materials taken from approved sources designated on the drawings or on the ground, to be used for embankments and backfilling.

Bridge. A structure, including supports, erected over a depression or stream, and having a deck to carry traffic.

Catch Point. The outer limits of a railway where the excavation and/or embankment intersect with the ground line.

Clearing Limit. The area over and beside the trail that is cleared of trees, limbs, and other obstructions.

Compacted. Consolidation that is obtained by tamping or rolling suitable material until no noticeable displacement of material is observed.

Contracting Officer (CO). An official of the Government with the authority to enter into, administer, and/or terminate contracts and make related determinations and findings. The term includes certain authorized representatives of the CO acting within the limits of their authority as delegated by the CO.

Cross-slope. The side-to-side slope of a trail tread.

Danger Tree. An unstable tree 5 inches or greater in diameter at breast height that is likely to fall across the trail.

Designated on the Ground. The location of materials, work areas, and construction items, including lines and grades, marked on the ground with stakes, flagging, tags, or paint.

Drawings. Documents showing details for construction of a facility, including but not limited to straight-line diagrams, trail logs, standard drawings, construction logs, plan and profile sheets, cross-sections, diagrams, layouts, schematics, descriptive literature, and similar materials.

Drain Dip. A dip in the running slope of a trail which also has an outslope built into it to allow water to collect and then drain downslope, away from the trail tread.

Duff. Organic material overlying rock or mineral soil.

Embankment. A structure of suitable material placed on the prepared ground surface and constructed to the

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trailbed elevation.

Excess Excavation. Material in the trailway in excess of that needed for construction of designed trailways.

Ford. A water-level stream crossing constructed to provide a level surface for safe traffic passage.

Full Bench. Trailbed constructed entirely on undisturbed material.

Grade. The vertical distance of ascent or descent of the trail expressed as a percentage of the horizontal distance.

Header Rock. Rock laid with the narrow end towards the face of the wall.

Inslope. Where the trail tread is sloped downward toward the backslope.

Mineral Soil. Soil or aggregate that is free from organic substances and contains no particles larger than 2 inches at their greatest dimension.

Outslope. Where the trail tread is sloped downward toward the embankment or daylight side of the trailway.

Running Slope. The lengthwise slope of a trail, parallel to the direction of travel (as opposed to cross-slope). The terms “running slope” and “grade” are often interchangeable.

Sideslope. The natural slope of the ground, usually expressed as a percentage.

Slough. That material from the backslope or the area of the backslope that has raveled onto the trailbed.

Slump. Where the trailbed material has moved downward, causing a dip in the trail grade.

Special Project Specification. Specifications that detail the conditions and requirements peculiar to an individual project, including additions and revisions to the standard specifications.

Surfacing. Material placed on top of the trailbed that provides the desired tread.

Suitable Material. Rock that can be accommodated in the trail structure, and soil free of duff with a recognizable granular texture.

Switchback. A reverse in direction of trail grade with a level landing used to change elevation on a steep slope, usually involving special treatment of the approaches, barriers, and drainages.

Trailbed. The finished surface on which base course or surfacing may be constructed. For trails without surfacing the trailbed is the tread.

Trailway. The portion of the trail within the limits of the excavation and embankment.

Tread. The surface portion of the trail upon which traffic moves.

Turnout. A short section of extra trail width to provide for passage of trail users.

Waterbar. A structure used for turning water off the trail, usually made of logs or stones.

Water Courses. Any natural or constructed channel where water naturally flows or will collect and flow during spring runoff, rainstorms, etc.

Section 902—INTENT OF CONTRACT

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902.01 Intent. The intent is to provide for the completion of the project described in the contract. Furnish all labor, materials, equipment, tools, transportation, utilities, and supplies, and perform all work required to complete the project in accordance with drawings, specifications, and provisions of the contract.

The use of land-based motorized equipment that is capable of operating on the trail without damage to the trailbed or adjacent areas may be allowed with prior approval; equipment not capable of such is not allowed. See also Section H.3 Use of Premises, j). The use of helicopters in the project area is allowed.

Section 904—CONTROL OF MATERIALS

904.01 Handling Materials. Transport and handle all materials to preserve their quality and fitness for the work. Stockpile, load, and transport aggregates in a manner that will preserve specified gradation and avoid contamination. Provide materials that are free from invasive species plant parts and seed.

Store materials to assure the preservation of their quality and fitness for the work. Locate stored materials to facilitate their prompt inspection. Restore all storage sites to a natural-appearing condition as approved. Arrangements for storage on other than designated sites are the responsibility of the contractor.

Section 906—MEASUREMENT AND PAYMENT

906.01 General. Measurement and payment for contract work will be made only for and under those pay items included in the SCHEDULE OF ITEMS. All other work and materials will be considered incidental and included in the payment of the PAY ITEMS in the SCHEDULE OF ITEMS.

906.02 Determination of Quantities. The following measurements and calculations are to be used to determine contract quantities for payment:

Measure **Aggregate Surfacing (AS)**, **Aggregate Surfacing with Heavy Clearing (AS-HC)**, **Aggregate Surfacing with Retainer Log (AS-RL)**, **Boardwalk Infill (BWI)**, **Solid Rock Removal (SRR)**, **Boardwalk Bridge (BWB)**, **Bridge Stringer Protection (BSP)**, **Guardrail Clean-up (GCU)** in linear feet (LF) measured along the centerline and parallel to the specified grade. For AS-RL measure from one end of the Retainer Log to the other end.

Measure **Concrete Steps (CS)** as each.

Note that the Aggregate material used incidentally in the construction will be incidental to these items and no additional payment will be made.

Measure **Miscellaneous Work (MW)** and Demo and Removal as lump sum.

906.03 Units of Measurement. Payment will be made by units defined and determined according to standard measure and by the following:

(a) **Each (EA).** One complete unit, which may consist of one or more parts.

(b) **Lump Sum (LSQ).** The quantities that denote one complete unit of work as required by or described in the contract, including necessary materials, equipment, and labor to complete the job.

(c) **Linear Feet (LF).** Measurement in feet taken along the centerline of the trail and parallel to the finished grade.

906.04 Methods of Measurement. One of the following methods of measurement for determining final payment

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is DESIGNATED ON THE SCHEDULE OF ITEMS for each PAY ITEM:

(a) Designed Quantities. These quantities denote the final number of units to be paid for under the terms of the contract. They are based upon the original design data available prior to advertising the project. Original design data include the preliminary survey information, design assumptions, calculations, and drawings. Changes in the number of units DESIGNATED IN THE SCHEDULE OF ITEMS may be authorized under the following conditions:

(1) As a result of changes in the work approved by the CO.

(2) As a result of the CO determining that errors exist in the original design that cause a PAY ITEM quantity to change by 15 percent or more.

(3) As a result of the contractor submitting to the CO a written request showing evidence of errors in the original design that cause a PAY ITEM quantity to change by 15 percent or more. The evidence must be verifiable and consist of calculations, drawings, or other data that show how the designed quantity is believed to be in error.

(b) Actual Quantities (AQ). These quantities are determined from measurement of completed work or certified receipts.

(c) Lump Sum Quantities (LSQ). These quantities denote one complete unit of work as required by or described in the contract, including necessary materials, equipment, and labor to complete the job.

(d) Vehicle Quantities (VQ). These quantities are measured or weighed in hauling vehicles. Aggregate woven bags are considered hauling vehicles.

Section 907—MOBILIZATION

DESCRIPTION

907.01 Work. This work consists of moving personnel, equipment, material and incidentals to the project and performing all work necessary before beginning work at the project site. Mobilization includes the costs associated with obtaining permits, insurance, and bonds. Mobilization is not intended to pay for the costs of materials before they are used on the project site.

PAYMENT

907.02 Basis. Pay for the accepted work at the contract unit price for the PAY ITEM SHOWN IN THE SCHEDULE OF ITEMS.

Make progress payments for mobilization as follows:

(a) Reimburse for bond premiums before issuing the Notice to Proceed if evidence of payment is received.

(b) When 5 percent or more of the original contract amount is earned from other PAY ITEMS, pay mobilization at the rate of 50 percent, or up to 5 percent of the original contract amount, whichever is less.

(c) When 10 percent or more of the original contract amount is earned from other PAY ITEMS, pay mobilization at the rate of 100 percent, or up to 10 percent of the original contract amount, whichever is less.

(d) Pay any unpaid amount for mobilization upon final acceptance of all work items.

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Section 908—CONSTRUCTION STAKING

DESCRIPTION

908.01 This work consists of establishing any control points needed in addition to existing staking.

CONSTRUCTION

908.02 General. The Government will field stake the beginning stations for work areas listed in the Trail Log in Section J. Before constructing the trail over a stake, relocate the stake in a visible location 90 degrees to the trail centerline and outside the construction limits. Maintain stakes until the project has been accepted by the Government.

Furnish and maintain additional stakes, flagging, templates, batter boards, and other materials and supplies necessary for marking and maintaining points and lines established. Do not perform work in the absence of control points. If any construction control points are destroyed, displaced, or erroneous, notify the CO. Uniformly contour alignment and construct grade from control point to control point.

MEASUREMENT

908.03 There will be no separate measurement for this item.

PAYMENT

908.04 This work will be considered incidental to other pay items in this contract and additional payment will not be made.

Section 909—MAINTENANCE FOR TRAFFIC

DESCRIPTION

909.01 General. Before any suspension of work, take precautions necessary to prevent damage to the project, such as temporary detours, approaches, crossings, or intersections, and make provisions for normal drainage and to minimize erosion.

The Anan Trail will remain open to the public during trail demolition and construction, except during helicopter operations over the trail, blasting operations, or while construction hazards are present. The contractor is responsible for managing trail closures and installing effective trail closure signage and warnings to the public. When trail is closed, provide "trail closed" signage readable from a distance of 300'. All signs are to be professional appearing. Provide a notification of closure times to the COR 14 calendar days prior to the closure.

MEASUREMENT

909.02 There will be no separate measurement for these items.

PAYMENT

909.03 Maintaining the trail for public access and providing temporary construction access will be considered incidental to other pay items in this contract, and additional payment will not be made.

SECTION 910 — QUALITY ASSURANCE AND QUANTITY MEASUREMENT

DESCRIPTION

910.01 Work. Work consists of providing certification that the quality and quantity of construction conform to the drawings, specifications, and requirements of the contract and holding trail segment construction meetings.

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CONSTRUCTION MEETINGS AND APPROVALS

910.02 Scheduling

For all meetings and coordination listed below and elsewhere in the Specifications, provide 5 day notice of proposed schedule so the Government may coordinate response.

910.03 Trail Segment Construction Meetings.

Prior to beginning excavation and embankment activities for each 1000 feet long trail segment, hold an on-the-ground meeting with the Government Representative to discuss particulars such as alignment, grading, drainage, waste disposal, and any other construction issues.

910.04 Aggregate Surfacing and Bedding Subgrade Approval.

For Aggregate Surfacing and trail types that require bedding, obtain Government inspection and approval after subgrade preparation is complete and before placement of aggregate or bedding. Do not place aggregate until subgrade is approved.

910.05 Approval of Recycled Timber Material

See Specifications Section 913

910.06 Representative Samples.

At approved locations, prepare 10' representative samples of each type of construction in this contract (example; 10 LF of Aggregate Surfacing, 10 LF of Concrete Steps, etc), Obtain review of the representative samples, correct any deficiencies, and obtain final approval before proceeding with any other work of that type. When accepted, the sample will be incorporated into the work. The representative samples will serve as a standard of workmanship and materials for other work on the project.

CONSTRUCTION

910.07 Certification and Measurements

(a) Offsite-Produced Materials and Submittals. Furnish signed certificates executed by the manufacturer, supplier, or vendor, stipulating that all offsite-produced materials incorporated in the work meet applicable requirements. Furnish a certificate for each commodity or invoice. Examples are framing hardware and connectors, manufacturer's wood treatment certification, certification of lumber grade, aluminum materials, aggregate gradation, etc.

(b) Quantity Measurements. Submit quantities to the CO for periodic progress payments, and the CO will compute payments. Quantities are subject to verification.

MEASUREMENT

910.08 Method. There will be no separate measurement for this item.

PAYMENT

910.09 Basis. Payment will be considered incidental to other pay items in this contract.

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Section 911—CLEARING AND GRUBBING

DESCRIPTION

911.01 Work. Work consists of clearing, grubbing, trimming, removing, and treating trees, logs, limbs, branches, brush, plants, and other vegetation within the clearing limits. Also included are the protection from injury or defacement of trees and other objects not designated for removal and the treatment of damaged trees.

CONSTRUCTION

911.02 Clearing Limits. Clear brush to the dimensions 48 inches each side of the trail centerline. Clear trees designated to be removed within 36" of trail centerline.

911.03 Material to Be Cleared. Remove and dispose of trees, logs, limbs, branches, brush, herbaceous plants, and other vegetation within the clearing limits, except for live brush, herbaceous plants, and trees between the trailway and clearing limits that are less than 12 inches in height and less than ½ inch diameter at ground line.

Except as provided above, cut all limbs and branches within 7 feet of the ground and more than 1/2 inch in diameter that extend into the clearing limits. Cut tree limbs flush with the outside of the branch collar and cut brush at the ground surface.

911.04 Damaged Trees. When felling, cutting, trimming, or setting tailholds, do not cause bark damage to standing timber. If damage does occur to standing trees, treat the injured trees in an approved manner. Remove and dispose of trees with major roots exposed and rendered unstable by construction activities.

911.05 Disposal of Clearing Slash, Logs, Stumps, Brush, and Roots. Limb all felled trees to a 4 inch diameter top, including designated trees outside the clearing limits.

Consolidate all products of clearing and grubbing in approved locations outside the clearing limits and out of sight of the trail.

Do not place clearing and grubbing debris in water courses, snow ponds, lakes, meadows, or in locations where it could impede the flows to, through, or from drainage structures.

911.06 Danger Trees.

Fall trees that are determined to be danger trees by the Government. Clean up as required in 911.05.

MEASUREMENT

911.07 Method. There will be no separate measurement for this item.

PAYMENT

911.08 Basis. Clearing and Grubbing will be considered incidental to the pay item under which the work is being done, and additional payment will not be made.

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Section 912—EXCAVATION AND EMBANKMENT

DESCRIPTION

912.01 Work. Work consists of the excavation, placement and management of excavated material including material sources. Includes excavation, embankment, and backfill construction required to shape and finish the trailbed, ditches, backslopes, fill slopes and moss plantings.

MATERIALS

912.02 Moss and herbaceous plantings. Conserve and use soil and herbaceous vegetation and moss removed during excavation and replant to revegetate excavated areas to provide a neat appearance and to control erosion.

CONSTRUCTION

912.03 Work. Work consists of removing organic soil to the depth required to accommodate the required tread type, and provide the finished grades specified on the drawings. Clear roots, stumps, duff, and existing vegetation for even grade between stations.

912.04 Ground protection during construction. Take measures to ensure that excessive rutting and erosion does not occur, and that the trail does not become wider than the specified width.

912.05 Ditches and drainage. Where active water flows and vegetation types or condition indicate the need for ditching, stake proposed ditch locations for approval during trailbed excavation. Locate ditches so as to divert waterflow away from trail surface and toward natural drainage features.

Obtain approval of trailbed and any proposed ditch locations prior to placing specified trail surface type.

Regrade disturbed areas and install drainage as needed to minimize erosion and promote drainage and restore natural appearance

912.06 Cut and Fill Slopes. Construct trail so cut and fill slopes are less than the angle of repose or as shown in the drawings. Trim exposed roots flush with the finished cut slope.

912.07 Use and Disposal of Excavated Material. Conserve and use all suitable material for specified work. Place excess and unsuitable excavation beyond the downslope edge of the trailbed, except in locations where the material would be placed within 5' of a stream or in staked locations where it is desirable not to impact the native vegetation; in these locations place in approved locations. Do not obstruct drainage and spread to a depth not exceeding 4 inches. This includes any material removed in the grubbing operation and deposited in the same area.

912.08 Finish. Blend and smooth cut and fill slopes to ensure a finished, neat appearance, adding or removing material as needed. Provide a high level of attention to detail to provide a finished appearance in the final grading of the cut and fill slopes.

MEASUREMENT

912.09 Method. There will be no separate measurement for this item.

PAYMENT

912.10 Basis. Excavation and Embankment will be considered incidental to the pay item under which the work is being done, and additional payment will not be made.

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Section 913 – DEMOLITION AND REMOVAL OR RECYCLING OF TRAIL STRUCTURES

DESCRIPTION

913.01 Work.

This work includes Boardwalk Removal; the demolition and removal or recycling of all abandoned trail structures located within the Lagoon Trail. There are approximately 1037 LF of step/run style boardwalk and a small quantity of other timber material to be removed/recycled.

CONSTRUCTION

913.02 Demolition and Removal of Boardwalk Material not designated for Recycling.

Demolish and remove, all planks, sills, posts, hardware, etc on the existing trail, including abandoned sections, that are not designated for recycling and dispose of off National Forest Lands.

913.03 Selection of Recycled Decking Material.

Mark each timber of proposed recycled material and obtain approval prior to moving the material to the work area. Do not recycle sill material.

Select recycled material according to the following criteria:

- 1). Longest remaining serviceable life
- 2). Minimum defect like splits and cracks
- 3). Appropriate lengths

MEASUREMENT

913.04 Measurement

Measure in accordance with Section 906.

PAYMENT

913.05 Basis.

Pay for the accepted quantities in accordance with Section 906.

Section 930 — SOLID ROCK REMOVAL

DESCRIPTION

930.01 Work. Solid Rock Removal (Type SRR) consists of creating a trail surface from sloping solid rock, mucking out excavated areas and finishing the exposed bedrock to provide a finished trail surface and installing Aggregate Surfacing where the finished bedrock surface is not suitable.

MATERIAL

930.02 Regulations. If blasting is the chosen method, Sections 930.02 through 930.06 shall apply. Only use explosives and initiating devices less than 1-year old. Explosives and initiating devices include, but are not necessarily limited to, dynamite and other high explosives, slurries, water gels, emulsions, blasting agents, initiating explosives, detonators, and detonating cord.

CONSTRUCTION

930.03 Regulations. Furnish copies or other proof of all-applicable permits and licenses. Comply with Federal, State, and local regulations on the purchase, transportation, storage, and use of explosive material. Federal regulations include the following:

a). Safety and health: OSHA, 29 CFR Part 1926, Subpart U.

b). Storage, security, and accountability: Bureau of Alcohol, Tobacco, and Firearms (BATF), 27 CFR Part 181.

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c). Shipment: DOT, 49 CFR Parts 171-179, 390-397

930.04 Blaster-in-Charge. Designate in writing a blaster-in-charge. Submit evidence that the blaster-in-charge has a valid State blaster's license or other license accepted by the State where the project is located and issued by an equivalent licensing body for the type of blasting required.

930.05 Blasting Plans. Blasting plans are for quality control and record keeping purposes and are to be signed by the blaster-in-charge. The review and acceptance of blasting plans does not relieve the Contractor of the responsibility for using existing drilling and blasting technology, and for obtaining the required results.

Do not deliver explosives to the project until the general blasting plan is accepted.

a). General blasting plan. Submit a general blasting plan for acceptance at least 14 days before drilling operations begin. Include, as a minimum, the following safety and procedural details:

- 1). Working procedures, and safety precautions for storing, transporting, handling, and detonating explosives.
- 2). Proposed product election for both dry and wet holes. Furnish Manufacturer's Material Data Sheets for all explosives, primers, initiators, and other blasting devices.
- 3). Typical plan and section views for both production and controlled blasting, including maximum length of the shot, burden, hole spacing, hole inclination, hole depth, hole diameter, subdrill depth, and powder factor.
- 4). Proposed initiation and delay methods and delay times.

930.06 Blasting. Drill and blast according to the blasting plan.

Cap all holes to prevent unwanted backfill. Place a stake next to each hole with hole number and total depth drilled.

Use the types of explosives and blasting accessories necessary to obtain the required results. A bottom charge may be larger than the line charges if no overbreak results.

Free blast holes of obstructions for their entire depth. Place charges without caving the blast hole walls. Stem the upper portion of all blast holes with dry sand or other suitable granular material. Do not stem hole with drill cuttings.

Following a blast, stop work in the entire blast area, and check for misfires before allowing worker to return to excavate the rock.

Remove all cut face rock that is loose, hanging, or potentially dangerous. Scale by hand or machine methods as approved by the CO. Leave minor irregularities or surface variations in place if they do not create a hazard. Drill the next lift only after the cleanup work and stabilization work is complete.

If blasting operations cause fracturing of the final rock face, repair or stabilize it in an approved matter at no cost to the Government. Repair or stabilization may include removal, rock bolting, rock dowels, or other stabilization techniques.

Halt blasting operations when any of the following occur and perform additional test blast:

- 1) Slopes are unstable;
- 2) Slopes exceed tolerances or overhangs are created;
- 3) Backslope damage occurs;
- 4) Safety of the public is jeopardized;
- 5) Property or natural features are endangered;
- 6) Excessive ground or airblast vibrations occur in an area where damage to buildings, structures, or utilities is possible.

930.07 Type SRR Tread Finish. Provide a uniform tread surface that is free draining and provides a suitable walking surface as approved. Treat surface to remove tool marks and provide a natural appearing surface, as

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approved.

If tread cannot be made to provide a suitable walking surface, install Aggregate Surfacing as approved.

MEASUREMENT

930.08 Method. Measure in accordance with Section 906.

PAYMENT

930.09 Basis. Pay for the accepted quantities in accordance with Section 906.

Section 937—TIMBER STRUCTURES

DESCRIPTION

937.01 Work. This work consists of constructing Boardwalk Infill (BWI), and identifying and preparing local round log materials as specified in the drawings for Aggregate Surfacing with Retainer Log (Type AS-RL).

MATERIALS

937.02 Retainer Logs (RL). Collect and transport timber from approved locations out of sight of the trail and in accordance with Section H, Government Furnished Materials. Timber shall be free from shake and rot. Peel bark from all members.

937.03 Bridge Stringer Protection (BSP). Use 1/8" x 2" x 3" Angle, 6061-T-52 Aluminum, Extruded. Attach to stringer with corrosion resistant self-tapping screws or approved equal.

938.04 Non-Skid

Use 1/2" x 1/2" x 24" wide, 19GA min. Hot-Dip Galvanized hardware cloth. Attach with 18 ga. min., 3/4" long, stainless steel, narrow or medium crown staples, or other method as approved.

CONSTRUCTION

937.05 Boardwalk Infill (BWI). Use recycled boardwalk sections from elsewhere on the project. Install so decking of BWI is flush with existing BW at all points of contact with existing boardwalk.

937.06 Guardrail Clean-Up (GCU). Treat all guardrails on the entire project area including Beach Trail as follows:

- lightly sand (80 grit or other method as approved) top handrail (including top and edges), to provide a smooth surface to the hand while leaving dark patina on the wood intact
- Round over all exposed corners of top and intermediate rails with router with 1/2" round-over bit on a router.

937.07 Bridge Stringer Protection. Install where shown on Trail Logs. Trim wood stringer corners where necessary to allow tight fit of aluminum angle pieces to timber member.

938.08 Non-skid

Install hardware cloth so wires on top are oriented perpendicular to the direction of travel and so cloth lays flat on decking with 2" min. overlap at joints. Install joints at turns in boardwalk only, with continuous pieces between. Make all cuts to hardware cloth so there are no wire ends sticking up.

Staple to decking at rate of approximately 5 staples per square foot and staple edges 3" on center minimum. Use stapler type capable of providing accurate placement and full embedment

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MEASUREMENT

937.09 Method.

No separate measurement will be made for these items.

PAYMENT

937.10 Basis.

Payment for these items is included in the work item for which the materials are used and no additional payment will be made.

Section 941—AGGREGATE AND STONE CONSTRUCTION

DESCRIPTION

941.01 Work. This work consists of preparing the trailbed and furnishing, hauling, and placing Aggregate Surfacing (Type AS), Aggregate Surfacing with Heavy Clearing (AS-HC), Aggregate Surfacing with Retainer Log (Type AS-RL), Concrete Steps (CS).

Aggregate Surfacing with Heavy Clearing (AS-HC) has been designated in areas that may encounter more difficult clearing and grubbing than typical Aggregate Surfacing areas. Clearing in AS-HC might include stumps, boulders, down logs, etc.

MATERIALS

941.02 Handling Materials. Stockpile, remove, transport, and spread aggregates in a manner that will preserve specified gradation and avoid contamination. Do not transport materials to project site that have soil, debris, or a substance adhered to it that could contain seed or vegetative matter from an offsite location.

941.03 Seed-Free Aggregate.

Provide aggregate materials that are free of viable seeds or vegetative material. Ensure that contamination does not occur from equipment and tools used to handle aggregate or construct trail. Thoroughly wash all equipment and tools that come into contact with aggregate or are used at the work site, to remove all soil, debris, and other material that could contain seed or vegetative material. Use only aggregate from an active stockpile that is certified weed free. Provide notification one week before moving material from the source facility to allow inspection.

941.04 Surface Course. Provide crushed aggregate meeting FP-14 Base grading E-1 (3/8" minus) and the requirements of FP-14 Section 703.

941.05 Base Course and Bedding. Provide crushed aggregate meeting FP-14 Subbase Grading A (2" minus) and the requirements of FP-14 Section 703.

CONSTRUCTION

941.06 Trailbed Preparation and Approval. See Specification 912.03.

941.07 Handling of Aggregate. Do not place aggregate directly on the ground outside of the railway without a tarp or some other means of separation. Do not allow the aggregate to become contaminated by seeds.

941.08 Compaction and Finished Grading.

Compact Base Course with two passes by a vibratory compactor. Following compaction of Base Course correct any irregularities or depressions that develop by adding or removing material until the surface is smooth and uniform.

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Compact Surface Course with one pass by a vibratory compactor. Following compaction of base course correct any irregularities or depressions that develop by adding or removing material until the surface is smooth and uniform.

941.09 Recycled boardwalk material as fill in subgrade. Where depth of fill needed to provide required finished grades exceed the depth of aggregate specified, the contractor may install pieces of recycled boardwalk in the subgrade as fill for that portion below the specified aggregate depth. Install boardwalk pieces tightly together in a manner that will resist settlement. Remove exposed nails and screws. Cover with soil or aggregate 4" min thickness.

941.10 Acceptance, Testing, Sampling, and Tolerances.

Provide the minimum compacted thickness of aggregate surfacing shown on the Drawings. If excess aggregate has been delivered to the work area it may be stockpiled in approved locations or spread evenly over the trail; the method to be approved and at no cost to the Government.

MEASUREMENT

941.11 Method.

Measure the quantities in accordance with Section 906.

PAYMENT

941.12 Basis.

Pay for the accepted quantities in accordance with Section 906.

SECTION 942 — CONCRETE STEPS

DESCRIPTION

942.01 Work.

This work consists of preparing the trailbed, and hauling and placing bedding material, and installing Concrete Steps (CS). See also Section 941.03.

MATERIALS

942.02 Concrete Steps.

See C.1, (f) Government Furnished Property

CONSTRUCTION

942.03 Handling of Aggregate.

Do not place aggregate directly on the ground outside of the railway without a tarp or some other means of separation. Do not allow the aggregate to become contaminated by seeds. See also 941.04 Seed-Free Aggregate.

942.04 Compaction and Finished Grading

Compact Base Course with two passes by a vibratory compactor. Following compaction of Base Course correct any irregularities or depressions that develop by adding or removing material until the surface is smooth and uniform.

Compact Surface Course with one pass by a vibratory compactor. Following compaction of base course correct any irregularities or depressions that develop by adding or removing material until the surface is smooth and uniform.

942.05 Acceptance, Testing, Sampling, and Tolerances.

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Provide the minimum compacted thickness of bedding material shown in the Drawings. If excess aggregate has been delivered to the work area it may be stockpiled in approved locations or spread evenly over the trail; the method to be approved by and at no cost to the Government.

MEASUREMENT

942.06 Method.

Measure the quantities in accordance with Section 906. Bedding material in Concrete Steps work area is incidental to Type CS Pay item.

PAYMENT

942.07 Basis.

Pay for the accepted quantities in accordance with Section 906.

Section 950 – OTHER WORK ITEMS

DESCRIPTION

950.01 Work. Work consists of Demolition and removal of designated existing boardwalk and timber structures, Miscellaneous Work, and Laborer Work. There are 1,037 LF of boardwalk and step/run boardwalk to be removed and a timber retaining wall.

CONSTRUCTION

950.02 Demolition and Removal of Designated Existing Boardwalk and Timber Structures. Remove all designated boardwalk (1,037 LF total) and other designated timber structures from the Lagoon Trail that are being replaced with new work under this contract. Do not remove bridges or other structures designated to remain in the Trail Log. Reuse demolished material in accordance with other requirements or remove from the project area.

950.03 Miscellaneous Work. Perform work as indicated in the Trail Logs.

950.04 Laborer Work. Work by one laborer with standard trail construction tools. Work also includes cutting trees and trimming tree branches within 20' of the ground to open views. Pruning to be accomplished using a pole saw, not climbing. FS personnel will accompany the laborer during this operation to designate branches to be cut. Cut material will be placed out of sight of the trail and estuary or removed from the project area and disposed offsite. No burning.

MEASUREMENT

950.05 Basis Measure the quantities in accordance with Section 906. Units for Laborer Work is one hour of work for one person with tools required for the job.

PAYMENT

950.06 Basis.

Pay for the accepted quantities in accordance with Section 906.

C.4 Special Project Specifications and Forest Service Supplementation of FP-14

Section 962 - TIMBER STRINGER BRIDGE

NOTE: THESE SUPPLEMENTAL SPECIFICATIONS ONLY APPLY TO THE BRIDGE CONSTRUCTION PORTION OF THIS CONTRACT.

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Preface

Preface_wo_03_12_2019

Delete all but the first paragraph and add the following:

The Forest Service, US Department of Agriculture has adopted FP-14 for construction of National Forest System Roads.

101 - Terms, Format, and Definitions

101.01_National_3_15_2017

Add the following paragraph to Subsection 101.01:

101.01 Meaning of Terms.

Delete all references to the FAR (Federal Acquisition Regulations) in the specifications when incorporating into 2400-6(T) Timber Sale or 2400-13(T) Stewardship contracts.

101.01_National_11_9_2016

Add the following paragraph to Subsection 101.01:

101.01 Meaning of Terms.

Delete all references to the TAR (Transportation Acquisition Regulations) in the specifications.

101.03_National_11_9_2016

Add the following to Subsection 101.03:

101.03 Abbreviations.

(a) Acronyms.

AGAR — Agriculture Acquisition Regulations
AFPA — American Forest and Paper Association
FSAR — Forest Service Acquisition Regulations
MSHA — Mine Safety and Health Administration
NESC — National Electrical Safety Code
WCLIB — West Coast Lumber Inspection Bureau

(f) Miscellaneous unit abbreviations.

MP	—	milepost	location
ppm	—	parts per million	volume
STA		station	location

Make the following changes to Subsection 101.04:

101.04 Definitions.

Delete these definitions and replace the following:

Bid Schedule — The Schedule of Items.

Bridge — A structure, including supports, erected over a depression or an obstruction such as water along a road, a trail, or a railway and having a deck for carrying traffic or other loads.

Contractor — The individual or legal entity contracting with the Government for performance of prescribed work. In a timber sale contract, the contractor is the “Purchaser”.

Culvert — Any structure with a bottom, regardless of fill depth, depth of invert burial, or presence of horizontal driving surface, or any bottomless (natural channel) structure with footings that will not have wheel loads in direct contact with the top of the structure.

Drawings — (Public Works Contracts) Design sheets or fabrication, erection, or construction details submitted to the CO by the Contractor according to FAR Clause 52.236-21 Specifications and Drawings for Construction. Also refers to submissions and submittals.

Notice to Proceed — (Public Works Contracts) Written notice to the Contractor to begin the contract work.

Right-of-Way — A general term denoting (1) the privilege to pass over land in some particular line (including easement, lease, permit, or license to occupy, use, or traverse public or private lands), or (2) Real property necessary for the project, including roadway, buffer areas, access, and drainage areas.

Solicitation—(Public Works Contracts) The complete assembly of documents (whether attached or incorporated by reference) furnished to prospective bidders.

Add the following definitions:

Adjustment in Contract Price — “Equitable adjustment,” as used in the Federal Acquisition Regulations, or “construction cost adjustment,” as used in the Timber Sale Contract, as applicable.

Change — “Change” means “change order” as used in the Federal Acquisition Regulations, or “design change” as used in the Timber Sale Contract.

Forest Service — The United States of America, acting through the Forest Service, U.S. Department of Agriculture.

Neat Line — A line defining the proposed or specified limits of an excavation or structure.

Pioneer Road — Temporary construction access built along the route of the project.

Purchaser — The individual, partnership, joint venture, or corporation contracting with the Government under the terms of a Timber Sale Contract and acting independently or through agents, employees, or subcontractors.

Protected Streamcourse — A drainage shown on the plans or timber sale area map that requires designated mitigation measures.

Road Order — An order affecting and controlling traffic on roads under Forest Service jurisdiction. Road Orders are issued by a designated Forest Officer under the authorities of 36 CFR, part 260.

Shop Drawings — (Timber and Stewardship Contracts) Referred to as “Drawings” in FP-14, include drawings, diagrams, layouts, schematics, descriptive literature, illustrations, lists or tables, performance and test data, and similar materials furnished by Purchaser to explain in detail specific portions of the work required by the contract.

Utilization Standards —

The minimum size and percent soundness of trees described in Public Works contract specifications or Timber Sale and IRTC contract provisions to determine merchantable timber.

Add Figure 101-1—Illustration of road structure terms:

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102 - Bid, Award, and Execution of Contract

102.00_National_11_9_2016

Delete Section 102 in its entirety.

Delete Section 102.

103 - Scope of Work

103.00_National_11_9_2016

Delete all of Section 103 except Subsection 103.01 Intent of Contract.

Delete Subsections 103.02, 103.03, 103.04, 103.05.

104 - Control of Work

104.00_National_11_9_2016

Delete Subsections 104.01, 104.02, and 104.04.

Delete Subsections 104.01, 104.02, 104.04.

104.03_National_11_4_2016

Delete Subsection 104.03 and replace with the following:

104.03 Specifications and Drawings.

Refer to B(T) 5.211 in the 2400-6(T)) or F(T).2.1.1 in the 2400-13(T) contracts for requirements under this subsection.

104.06_National_11_9_2016

Add the following to Subsection 104.06:

104.06 Use of Roads by Contractor.

The Contractor is authorized to use roads under the jurisdiction of the Forest Service for all activities necessary to complete this contract, subject to the limitations and authorizations designated in the Road Order(s) or described in the contract, when such use will not damage the roads or national forest resources, and when traffic can be accommodated safely.

106 - Acceptance of Work

106.01_National_7_18_2017

Delete Subsection 106.01 and replace with the following:

106.01 Conformity with Contract Requirements.

Follow the requirements of FAR Clause 52.246-12 Inspection of Construction.

References to standard test methods of AASHTO, ASTM, GSA, and other recognized standard authorities refer to the methods in effect on the date of solicitation for bids.

Perform all work to the lines, grades, cross-sections, dimensions, and processes or material requirements shown on the plans or specified in the contract.

Incorporate manufactured materials into the work according to the manufacturer's recommendations or

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to these specifications, whichever is more strict.

Plan dimensions and contract specification values are the values to be strived for and complied with as the design values from which any deviations are allowed. Perform work and provide material that is uniform in character and reasonably close to the prescribed value or within the specified tolerance range. The purpose of a tolerance range is to accommodate occasional minor variations from the median zone that are unavoidable for practical reasons.

When standard manufactured items are specified (such as fence, wire, plates, rolled shapes, pipe conduits, etc., that are identified by gauge, unit mass, section dimensions, etc.), the identification will be considered to be nominal masses or dimensions. Unless specific contract tolerances are noted, established manufacturing tolerances will be accepted.

The Government may inspect, sample, or test all work at any time before final acceptance of the project. When the Government tests work, copies of test reports are furnished to the Contractor upon request. Government tests may or may not be performed at the work site. If Contractor testing and inspection is verified by the Government, the Contractor’s results may be used by the Government to evaluate work for acceptance. Do not rely on the availability of Government test results for process control.

Acceptable work conforming to the contract will be paid for at the contract unit bid price. Four methods of determining conformity and accepting work are described in Subsections 106.02 to 106.05 inclusive. The primary method of acceptance is specified in each Section of work. However, work may be rejected at any time it is found by any of the methods not to comply with the contract.

Remove, repair, or replace work that does not conform to the contract, or to prevailing industry standards where no specific contract requirements are noted. Removing, repairing, or replacing work; providing temporary traffic control; and any other related work to accomplish conformity will be at no cost to the Government.

(a) Disputing Government test results. If the accuracy of Government test results is disputed, promptly inform the CO. If the dispute is unresolved after reasonable steps are taken to resolve the dispute, further evaluation may be obtained by written request. Include a narrative describing the dispute and a proposed resolution protocol that addresses the following:

- 1. Sampling method;
- 2. Number of samples;
- 3. Sample transport;
- 4. Test procedures;
- 5. Testing laboratories;
- 6. Reporting;
- 7. Estimated time and costs; and
- 8. Validation process.

If the evaluation requires additional sampling or testing be performed, mutually agree with the Government on witnessing procedures and on sampling and testing by a third party laboratory. Use a third party laboratory accredited by the AASHTO accreditation program. Provide proof of the laboratory’s accreditation for the test procedures to be used. Do not use the same laboratory that produced the disputed Government test results or that produced the test results used as a basis for the dispute.

The CO will review the proposed resolution protocol and may modify it before final approval and execution.

The Government will use the approved resolution protocol test results to determine the validity of the disputed testing. If the Government test results are validated, the Contractor will be responsible for all costs associated with developing and performing the resolution protocol. If the Government test results are not validated, the Government will be responsible for all costs associated with developing and

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performing the resolution protocol. If the validity of the Government test results cannot be determined, the Contractor and Government will equally share all costs associated with developing and carrying out the resolution protocol.

(b) Alternatives to removing and replacing non-conforming work. As an alternative to removal and replacement, the Contractor may submit a written request to:

1. Have the work accepted at a reduced price; or
2. Be given permission to perform corrective measures to bring the work into conformity.

The request must contain supporting rationale and documentation. Include references or data justifying the proposal based on an evaluation of test results, effect on service life, value of material or work, quality, aesthetics, and other tangible engineering basis. The CO will determine disposition of the nonconforming work.

106.02_National_11_9_2016

Delete Subsection 106.02 and replace with the following:

106.02 Visual Inspection.

Acceptance is based on visual inspection of the work for compliance with the specific contract requirements. Use prevailing industry standards in the absence of specific contract requirements or tolerances.

106.07_National_11_1_2016

Delete Subsection 106.07.

106.07 Partial and Final Acceptance.

107 - Legal Relations and Responsibility to the Public

107.05_National_7_18_2017

Delete Subsection 107.05.

Delete Subsection 107.05.

107.08_National_11_1_2016

Delete Subsection 107.08 and replace with the following:

107.08 Sanitation, Health, and Safety.

Refer to specific provisions under B(T) 6.0 in the 2400-6(T) or G(T).0 in the 2400-13(T) contracts for requirements under this subsection.

108 - Prosecution and Progress

108.00_National_11_9_2016

Delete Section 108 in its entirety.

Delete Section 108.

109 - Measurement and Payment

109.00_National_11_9_2016

Delete Subsections 109.06, 109.07, 109.08, and 109.09:

Delete Subsections 109.06, 109.07, 109.08, 109.09.

109.01_National_2_22_2019

Delete the third paragraph and Table 109-1 of Subsection 109.01 and replace with the following:

109.01 Measurement of Work.

Take measurements as described in Subsection 109.02 unless otherwise modified by the Measurement Subsection of the section controlling the work being performed. Table 109-1 indicates the accuracy required for quantities of the various pay units used in the Schedule of Items. Use this guide to determine the decimal placement in the final payment.

**Table 109-1
Decimal Accuracy of Quantities for Final Payment**

Pay Item	Level of Precision
Linear Foot	1
Exception--Timber, Steel, and concrete Piles	0.1
Station	0.1
Mile	0.01
Square Foot	0.1
Square Yard	0.1
Each	1
Acre	0.01
Gallon	1
M-Gals.	0.1
Cubic Yard	1
Exception--Structure Excavation; Sheathing Materials; Bedding, Bed Course, and Backfill Materials; Gabions;	0.1
Exception--Concrete; Masonry	0.01
Pound	1
Ton	0.1
Exception--Calcium Chloride; Sodium Chloride; Hydrated Lime; Bituminous Materials; Pavements; Bed Course Materials	0.01
Hour	0.1
MFBM	0.01
Pay Item	Level of Precision

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Station Yard	1
Cubic Yard Mile	1
Ton Mile	1

109.02_National_11_9_2016

Add the following sentence to Subsection 109.02(b):

109.02 Measurement Terms and Definitions.

(b) Contract quantity.

Contract quantities will be adjusted only when there are errors in the original design of 15% or more.

109.03_National_11_1_2016

Add the following to Subsection 109.03(c):

109.03 Weighing Procedures and Devices.

(c) Project weighing system.

For aggregates weighed for payment, adjust scale weights of material to deduct the daily average moisture content in excess of 2 percentage points over optimum moisture as determined by AASHTO T 99 or the designated compaction method. If moisture determination is necessary, determine the daily average moisture content in accordance with AASHTO T 255, from not less than three representative samples of aggregate taken at random intervals each day that aggregate is being weighed.

Manual scales may be used if approved in writing by the CO and if the method of weighing meets all other contract requirements.

155 - Schedules for Construction Contracts

155.00_National_11_9_2016

Delete Section 155 in its entirety.

Delete Section 155.

157 - Soil Erosion and Sediment Control

157.04_National_11_1_2016

Delete Subsection 157.04 and replace with the following:

157.04 General.

Thirty (30) days prior to the start of construction, submit a written plan according to subsection 104.03 with all necessary permits that provides permanent and temporary erosion control measures to minimize erosion and sedimentation during and after construction. Do not begin work until the necessary controls for that particular phase of work have been implemented. Do not modify the type, size, or location of any control without approval.

When erosion control measures are not functioning as intended, take corrective action to eliminate or minimize pollutants in storm water discharges from the project.

201 - Clearing and Grubbing

201.06_National_2_22_2018

Delete the first sentence of Subsection 201.06 and replace the following:

201.06 Disposal.

Merchantable timber is Government property.

204 - Excavation and Embankment

204.00_National_11_4_2016

Delete Section 204 in its entirety and replace with the following.

Section 204. — EXCAVATION AND EMBANKMENT

Description

204.01 This work consists of excavating material and constructing embankments. This work also includes furnishing, hauling, stockpiling, placing, disposing, sloping, shaping, compacting, and finishing earthen and rocky material.

204.02 Definitions.

(a) **Excavation.** Excavation consists of the following:

(1) **Roadway excavation.** Material excavated from within the right-of-way or easement areas, except subexcavation covered in Subsection 204.02(a)(2) and structure excavation covered in Sections 208 and 209. Roadway excavation includes all material encountered regardless of its nature or characteristics.

(2) **Subexcavation.** Material excavated from below subgrade elevation in cut sections or from below the original ground-line in embankment sections. Subexcavation excludes the work required by Subsection 204.05 or 204.06.

(3) **Borrow excavation.** Material used for embankment construction that is obtained from outside the roadway prism. Borrow excavation includes unclassified borrow, and topping.

(b) **Embankment construction.** Embankment construction consists of placing and compacting roadway or borrow excavation. This work includes:

(1) Preparing foundation for embankment;

(2) Constructing roadway embankments;

(3) Benching for side-hill embankments;

(4) Constructing dikes, ramps, mounds, and berms; and

(5) Backfilling subexcavated areas, holes, pits, and other depressions.

(c) **Conserved topsoil.** Excavated material conserved from the roadway excavation and embankment foundation areas that is suitable for growth of grass, cover crops, or native vegetation.

(d) **Waste.** Excess and unsuitable roadway excavation and subexcavation that cannot be used.

Material

204.03 Conform to the following Subsections:

Topping	704.05
Unclassified borrow	704.06
Water	725.01(c)

Construction Requirements

204.04 Preparation for Roadway Excavation and Embankment Construction. Clear the area of vegetation and obstructions according to Sections 201 and 203.

Road pioneering, slash disposal, and grubbing of stumps may proceed concurrently with excavation and embankment. Maintain drainage during pioneering operations.

204.05 Conserved Topsoil. When designated, conserve topsoil from roadway excavation and embankment foundation areas. Stockpile conserved topsoil in low windrows immediately beyond the rounding limits of cut and embankment slopes or in other approved locations. Separate conserved topsoil from other excavated material. When designated, place conserved topsoil on completed slopes according to Section 624.

204.06 Roadway Excavation. Excavate as follows:

(a) **Rock cuts.** Blast rock according to Section 205. Excavate rock cuts to 6 inches (150 millimeters) below subgrade within the roadbed limits. Backfill to subgrade with topping or other suitable material. Compact the material according to Subsection 204.11.

(b) **Earth cuts.** Scarify earth cuts to 6 inches (150 millimeters) below subgrade within the roadbed limits. Compact the scarified material according to Subsection 204.11.

(c) **Pioneer Roads.** Conduct excavation and placement operations so material to be treated under Section 201 will not be incorporated into the roadway unless specified in the slash treatment method. Maintain drainage during pioneering operations.

Remove snow and ice in advance of the work and deposit beyond the roadway limits in a manner that will not waste material or generate sediment. Do not incorporate snow and ice into embankments. Place snow or ice in a manner to prevent resource damage.

(d) **Drainage Feature.** Drainage feature includes construction of all ditches, minor channel changes, drainage dips, catch basins, surface water deflectors, and other minor drainage structures. Compact the material according to Subsection 204.11. Excavate on a uniform grade between control points.

Do not disturb material and vegetation outside the construction limits. Retrieve material deposited outside the construction limits. Dispose of unsuitable or excess excavation material according to Subsection 204.14. Replace shortage of suitable material caused by premature disposal of roadway excavation. Shape to drain and compact the work area to a uniform cross-section at the end of each day's operations.

204.07 Subexcavation. Excavate material to the required limits. Dispose of unsuitable material according to Subsection 204.14. Take cross-sections according to Section 152. Backfill subexcavated area with suitable material in horizontal layers not exceeding 12 inches (300 millimeters) in compacted thickness and compact according to Subsection 204.11. Prevent unsuitable material from mixing with suitable backfill material.

204.08 Borrow Excavation. Use suitable roadway excavation in embankment construction. Do not use borrow excavation when it results in excess roadway excavation. Deduct excess borrow excavation from the total borrow excavation quantity.

Obtain borrow source approval according to Subsection 105.02. Develop and restore borrow sources according to Subsections 105.03 and 105.06. Do not excavate beyond the established limits. When applicable, shape the borrow source to permit accurate measurements when excavation is complete.

204.09 Preparing Foundation for Embankment Construction. Prepare foundation for embankment construction as follows:

(a) **Embankment over natural ground.** Remove topsoil and break up the ground surface to a minimum depth of 6 inches (150 millimeters) by plowing or scarifying. Compact the ground surface according to Subsection 204.11.

(b) **Embankments over an existing asphalt, concrete, or gravel road surface.** Scarify gravel roads

to a minimum depth of 6 inches (150 millimeters). Scarify or pulverize asphalt and concrete roads to 6 inches (150 millimeters) below the pavement. Reduce particles to a maximum size of 6 inches (150 millimeters) and produce a uniform material. Compact the surface according to Subsection 204.11.

(c) Embankment across ground not capable of supporting equipment. Dump successive loads of embankment material in a uniformly distributed layer to construct the lower portion of the embankment. Limit the layer thickness to the minimum depth necessary to support the equipment.

(d) Embankment on an existing slope steeper than 1V:3H. Cut horizontal steps in the existing slope to a sufficient width to accommodate placement and compaction operations and equipment. Step the slope as the embankment is placed and compacted in layers. Begin each step at the intersection of the original ground and the vertical cut of the previous step.

204.10 Embankment Construction. Incorporate only suitable roadway excavation material into the embankment. When the supply of suitable roadway excavation is exhausted, furnish unclassified borrow to complete the embankment. Obtain written approval before beginning construction of embankments over 6 feet (2 meters) high at subgrade centerline. Construct embankments as follows:

(a) General. At the end of each day's operations, shape to drain and compact the embankment surface to a uniform cross-section. Eliminate ruts and low spots that could hold water.

During all stages of construction, route and distribute hauling and leveling equipment over the width and length of each layer of material.

Compact embankment side slopes with a tamping foot roller, by walking with a dozer, or by over-building the fill and then removing excess material to the final slope line. For slopes 1V:1¾H or steeper, compact the slopes as embankment construction progresses.

(b) Embankment within the roadway prism. Place embankment material in horizontal layers not exceeding 12 inches (300 millimeters) in compacted thickness. Incorporate oversize boulders or rock fragments into the 12-inch (300-millimeter) layers by reducing them in size or placing them individually as required below. Compact each layer according to Subsection 204.11 before placing the next layer.

Material composed predominately of boulders or rock fragments too large for 12-inch (300-millimeter) layers may be placed in layers up to 24 inches (600 millimeters) thick. Incorporate oversize boulders or rock fragments into the 24-inch (600-millimeter) layer by reducing them in size or placing individual rock fragments and boulders greater than 24 inches (600 millimeters) in diameter as follows:

- (1) Reduce rock to less than 48 inches (1200 millimeters) in the largest dimension;
- (2) Distribute rock within the embankment to prevent nesting;
- (3) Place layers of embankment material around each rock to a depth not greater than that permitted above. Fill voids between rocks; and
- (4) Compact each layer according to Subsection 204.11(a) before placing the next layer.

(c) Embankment outside of roadway prism. When placing embankment outside the staked roadway prism, place material in horizontal layers not exceeding 24 inches (600 millimeters) in compacted thickness. Compact each layer according to Subsection 204.11.

204.11 Compaction. Compact the embankment using one of the following methods as specified.

(a) Placement Method 1. Use AASHTO T 27 to determine the quantity of material retained on a No. 4 (4.75-millimeter) sieve. Compact as follows:

(1) More than 80 percent retained on a No. 4 (4.75-millimeter) sieve. Adjust the moisture content to a level suitable for compaction. Fill the interstices around rock with earth or other fine material as practical. Use compression-type rollers at speeds less than 6 feet (1.8 meters) per second and vibratory rollers at speeds less than 3 feet (1 meter) per second. Compact each layer of material full width with one of the following and until there is no visible evidence of further consolidation:

- (a) Four roller passes of a vibratory roller having a minimum dynamic force of 40,000

pounds (180 kilonewtons) impact per vibration and a minimum frequency of 1000 vibrations per minute;

(b) Eight roller passes of a 20-ton (20-metric ton) compression-type roller; or

(c) Eight roller passes of a vibratory roller having a minimum dynamic force of 30,000 pounds (130 kilonewtons) impact per vibration and a minimum frequency of 1000 vibrations per minute.

Increase the compactive effort for layers deeper than 12 inches (300 millimeters) as follows:

- For each additional 6 inches (150 millimeters) or fraction thereof, increase the number of roller passes in Subsection 204.11(a)(1)(a), by four passes; or
- For each additional 6 inches (150 millimeters) or fraction thereof, increase the number of roller passes in Subsection 204.11(a)(1)(b) and (c), by eight passes.

(2) 50 to 80 percent retained on a No. 4 (4.75-millimeter) sieve. Classify the material according to AASHTO M 145. Adjust the moisture content of material classified A-1 through A-5 to a moisture content suitable for compaction. Adjust the moisture content of material classified A-6 and A-7 to within 2 percent of the optimum moisture content. Use AASHTO T 99 to determine the optimum moisture content of the portion of the material passing a No. 4 (4.75-millimeter) sieve. Multiply this number by the percentage of material passing a No. 4 (4.75-millimeter) sieve, and add 2 percent to determine the optimum moisture content of the material.

Use nonvibratory rollers at speeds less than 6 feet (1.8 meters) per second and vibratory rollers at speeds less than 3 feet (1 meter) per second. Compact each layer of material full width according to Subsection 204.11(a)(1).

(3) Less than 50 percent retained on a No. 4 (4.75-millimeter) sieve. Classify the material according to AASHTO M 145. For material classified A-1 or A-2-4, determine the maximum density according to AASHTO T 99, Method C.

Adjust the moisture content of material classified A-1 through A-5 to a moisture content suitable for compaction. Adjust the moisture content of material classified A-6 and A-7 to within 2 percent of the optimum moisture content.

Use compression-type or vibratory rollers. Compact each layer of material full width to at least 95 percent of the maximum density. Determine the in-place density and moisture content according to AASHTO T 310 or other approved test procedures. When required, use AASHTO T 224 to correct for coarse particles.

(b) Placement Method 2. Adjust the moisture content of the material to a moisture content suitable for compaction. Fill the interstices around rock with earth or other fine material as practical. Operate roller compaction equipment over the full width of each layer until there is no visible evidence of further consolidation or, if when a sheepsfoot roller is used, the roller “walks out” of the layer. Make at least three complete passes. Use compression-type rollers at speeds less than 6 feet (1.8 meters) per second and vibratory rollers at speeds less than 3 feet (1 meter) per second. Ensure rollers meet the following requirements:

- (1) Steel wheeled rollers, other than vibratory, capable of exerting a force of not less than 250 pounds per inch (4.5 kilogram/millimeter) of width of the compression roll or rolls.
- (2) Vibratory steel wheeled rollers equipped with amplitude and frequency controls with a minimum dynamic force of 30,000 pounds (130 kilonewtons) impact per vibration, specifically designed to compact the material on which it is used.
- (3) Pneumatic-tired rollers with smooth tread tires of equal size that will provide a uniform compacting pressure for the full width of the roller and capable of exerting a ground pressure of at least 80 psi (550 Kilopascals).
- (4) Sheepsfoot, tamping, or grid rollers capable of exerting a force of 250 pounds per inch (4.5 kilogram/millimeter) of width of roller drum.

(c) Placement Method 3. Adjust the moisture content of the material to a moisture content suitable for compaction. Fill the interstices around rock with earth or other fine material as practical. Operate hauling and spreading equipment uniformly over the full width of each layer until there is no visible evidence of further consolidation. Make at least three complete passes.

(d) Placement Method 4. Adjust the moisture content of the material to a moisture content suitable for compaction. Fill the interstices around rock with earth or other fine material as practical. Operate hauling and spreading equipment uniformly over the full width of each layer.

(e) Placement Method 5. Adjust the moisture content of the material to a moisture content suitable for compaction. Compact the complete surface with a bucket of an excavator larger than 39,000 pounds (18 metric ton) Gross Vehicle Weight using a minimum of three blows. Overlap compaction by ½ width of bucket.

(f) Placement Method 6. Adjust the moisture content of the material to a moisture content suitable for compaction. Compact using an approved mechanical tamper for a minimum of three complete passes.

When compacting with rollers or hauling and spreading equipment is not practical, use approved mechanical tampers for a minimum of three complete passes.

204.12 Drainage Features. Slope, grade, and shape all drainage features. Remove projecting roots, stumps, rock, or similar matter. Maintain all drainage features in an open condition and without sticks, and other debris.

Form furrow ditches by plowing or using other acceptable methods to produce a continuous furrow. Place excavated material on the downhill side so the bottom of the ditch is approximately 18 inches (450 millimeters) below the crest of the loose material. Clean the ditch using a hand shovel or other suitable method. Shape to provide drainage without overflow.

204.13 Sloping, Shaping, and Finishing. Complete subgrade, slopes, drainage features, culverts, riprap, and other underground minor structures before placing aggregate courses. Slope, shape, and finish to the designated tolerance class as defined in Table 204-2 as follows:

(a) Sloping. Leave earth slopes with uniform roughened surfaces, except as described in Subsection 204.13(b), with no noticeable break as viewed from the road. Except in solid rock, round tops and bottoms of slopes including the slopes of drainage ditches. Round material overlaying solid rock to the extent practical. Scale rock slopes. Slope rounding is not required on tolerance class D through M roads.

If a slide or slipout occurs on a cut or embankment slope, remove or replace the material and repair or restore damage to the work. Bench or key the slope to stabilize the slide. Reshape the cut or embankment slope to an acceptable condition.

(b) Stepped slopes. Where required, construct steps on slopes of 1½V:1H to 1V:2H. Construct the steps approximately 18 inches (450 millimeters) high. Blend the steps into natural ground at the end of the cut. If the slope contains non-rippable rock outcrops, blend steps into the rock. Remove loose material found in transitional area. Except for removing large rocks that may fall, scaling stepped slopes is not required.

(c) Shaping. Shape the subgrade to a smooth surface and to the cross-section required. Shape slopes to gradually transition into slope adjustments without noticeable breaks. At the ends of cuts and at intersections of cuts and embankments, adjust slopes in the horizontal and vertical planes to blend into each other or into the natural ground.

(d) Finishing. Ensure that the subgrade is visibly moist during shaping and dressing; smooth and uniform, and shaped to conform to the typical sections. Remove material larger than 6 inches (150 millimeters) from the top 6 inches (150 millimeters) of the roadbed. Remove unsuitable material from the roadbed, and replace it with suitable material. Scarify to 6 inches (150 millimeters) below the

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bottom of low sections, holes, cracks, or depressions and bring back to grade with suitable material. Maintain proper ditch drainage.

204.14 Disposal of Unsuitable or Excess Material. Dispose of unsuitable or excess material at designated sites or according to Subsection 203.05(a)

When there is a pay item for waste, shape and compact the waste material in its final location. Do not mix clearing or other material not subject to payment with the waste material.

204.15 Acceptance. See Table 204-1 for sampling, testing, and acceptance requirements.

Material for embankment and conserved topsoil will be evaluated under Subsections 106.02 and 106.04.

Excavation and embankment construction will be evaluated under Subsections 106.02 and 106.04.

Subexcavation will be evaluated under Subsections 106.02 and 106.04.

Measurement

204.16 Measure the Section 204 pay items listed in the bid schedule according to Subsection 109.02 and the following as applicable:

(a) Roadway excavation. Measure roadway excavation in its original position as follows:

(1) Include the following volumes in roadway excavation:

- (a) Roadway prism excavation;
- (b) Rock material excavated and removed from below subgrade in cut sections;
- (c) Unsuitable material below subgrade and unsuitable material beneath embankment areas when a pay item for subexcavation is not listed in the bid schedule;
- (d) Ditches, except furrow ditches measured under a separate pay item;
- (e) Conserved topsoil;
- (f) Borrow material used in the work when a pay item for borrow is not listed in the bid schedule;
- (g) Loose scattered rocks removed and placed as required within the roadway;
- (h) Conserved material taken from pre-existing stockpiles and used in Section 204 work, except topsoil measured under 624; and
- (i) Slide and slipout material not attributable to the Contractor's method of operation.

(2) Do not include the following in roadway excavation:

- (a) Overburden and other spoil material from borrow sources;
- (b) Overbreakage from the backslope in rock excavation;
- (c) Water or other liquid material;
- (d) Material used for purposes other than required;
- (e) Roadbed material scarified in place and not removed;
- (f) Material excavated when stepping cut slopes;
- (g) Material excavated when rounding cut slopes;
- (h) Preparing foundations for embankment construction;
- (i) Material excavated when benching for embankments;
- (j) Slide or slipout material attributable to the Contractor's method of operation;
- (k) Conserved material taken from stockpiles constructed at the option of the Contractor;
- (l) Material excavated outside the established slope limits; and
- (m) Road pioneering for the convenience of the Contractor.

(3) When both roadway excavation and embankment construction pay items are listed in the bid schedule, measure roadway excavation only for the following:

- (a) Unsuitable material below subgrade in cuts and unsuitable material beneath embankment

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- areas when a pay item for subexcavation is not listed in the bid schedule;
- (b) Slide and slipout material not attributable to the Contractor's method of operations; and
 - (c) Drainage ditches, channel changes, and diversion ditches.
- (b) Unclassified borrow, and topping.** When measuring by the cubic yard (cubic meter) measure in its original position. If borrow excavation is measured by the cubic yard (cubic meter) in-place, take initial cross-sections of the ground surface after stripping overburden. Upon completion of excavation and after the borrow source waste material is returned to the source, retake cross-sections before replacing the overburden. Do not measure borrow excavation until suitable roadway excavation is depleted.
- (c) Embankment construction.** Measure embankment construction in its final position. Do not make deductions from the embankment construction quantity for the volume of minor structures.
- (1)** Include the following volumes in embankment construction:
 - (a) Roadway embankments;
 - (b) Material used to backfill subexcavated areas, holes, pits, and other depressions;
 - (c) Material used to restore obliterated roadbeds to original contours; and
 - (d) Material used for dikes, ramps, mounds, and berms.
 - (2)** Do not include the following in embankment construction:
 - (a) Preparing foundations for embankment construction;
 - (b) Adjustments for subsidence or settlement of the embankment or of the foundation on which the embankment is placed; and
 - (c) Material used to round fill slopes.
- (d) Rounding cut slopes.** If a pay item for slope rounding is included in the bid schedule measure rounding cut slopes horizontally along the centerline of the roadway. If a pay item is not included for slope rounding is not included in the bid schedule payment will be considered indirect to roadway excavation.
- (e) Waste.** Measure waste by the cubic yard (cubic meter) in its final position. Take initial cross-sections of the ground surface after stripping over-burden. Upon completion of the waste placement, retake cross-sections before replacing overburden.
- (f) Slope scaling.** Measure slope scaling by the cubic yard (cubic meter) in the hauling vehicle.
- (g) Subexcavation.** Measure subexcavation by the cubic yard (cubic meter) in its original position.
- (h) Drainage features.** Measurement includes all excavation, embankment, shaping, and grading necessary for a completed drainage feature.

Payment

204.17 The accepted quantities will be paid at the contract price per unit of measurement for the Section 204 pay items listed in the bid schedule. Payment will be full compensation for the work prescribed in this Section. See Subsection 109.05.

**Table 204-1
Sampling, Testing, and Acceptance Requirements**

Material or Product (Subsection)	Type of Acceptance (Subsection)	Characteristic	Category	Test Methods Specifications	Sampling Frequency	Point of Sampling	Split Sample	Reporting Time
Source								
Topping (704.05)	Measured and tested for conformance (106.04 & 105)	Classification ⁽¹⁾	–	AASHTO M 145	1 per soil type and source of material	Processed material	Yes	Before using in work
Unclassified borrow (704.06)	"	"	–	"	"	"	"	"
Production								
Topping (704.05) and (204.11(a))	Measured and tested for conformance (106.04)	Moisture-density	–	T 99, Method C ⁽²⁾	1 per soil type, but not less than 1 per each 13,000 yd ³ (10,000 m ³)	Processed material	Yes	Before using in work
		Density	–	AASHTO T 310 or other approved procedures	1 per 3500 yd ² (3000 m ²), but not less than 3 per layer	In-place	No	Before placement of next layer
Unclassified borrow (704.06) and (204.11(a))	"	Moisture-density	–	T 99, Method C ⁽²⁾	1 per soil type, but not less than 1 per each 13,000 yd ³ (10,000 m ³)	Processed material	Yes	Before using in work

**Table 204-1
Sampling, Testing, and Acceptance Requirements**

Material or Product (Subsection)	Type of Acceptance (Subsection)	Characteristic	Category	Test Methods Specifications	Sampling Frequency	Point of Sampling	Split Sample	Reporting Time
		Density	-	AASHTO T 310 or other approved procedures	1 per 3500 yd ² (3000 m ²), but not less than 3 per layer	In-place	No	Before placement of next layer
Production (continued)								
Earth embankment (204.11(a))	Measured and tested for conformance (106.04)	Classification	-	AASHTO M 145	1 per soil type	Source of material	Yes	Before using in work
		Moisture-density	-	T 99, Method C ⁽²⁾	1 per soil type, but not less than 1 per each 13,000 yd ³ (10,000 m ³)	"	"	"
		Density	-	AASHTO T 310 or other approved procedures	1 per 3500 yd ² (3000 m ²), but not less than 3 per layer	In-place	No	Before placement of next layer
Top of subgrade (204.11(a))	"	Density	-	AASHTO T 310 or other approved procedures	1 per 2500 yd ² (2000 m ²), but not less than 3 per layer	In-place	No	Before placement of next layer
Finished Product								

**Table 204-1
Sampling, Testing, and Acceptance Requirements**

Material or Product (Subsection)	Type of Acceptance (Subsection)	Characteristic	Category	Test Methods Specifications	Sampling Frequency	Point of Sampling	Split Sample	Reporting Time
Roadbed (204.13)	Measured and tested for conformance (106.04)	Final line & grade	-	Field measured	Determined by the CO	Determined by the CO	No	Before placement of next layer

- (1) Not required when using Government-provided source.
- (2) Minimum 5 points per proctor.

**Table 204-2
Construction Tolerances**

Location Description	Tolerance Class (a)												
	A	B	C	D	E	F	G	H	I	J	K	L	M
Roadbed width (ft)	+0.5	+0.5	+1.0	+1.0	+1.0	+1.0	+1.5	+1.0	+2.0	+2.0	+2.0	+2.0	+2.0
Subgrade elevation (ft)	+0.1	+0.2	+0.2	+0.5	+0.5	+1.0	+1.0	+1.5	+2.0	+3.0	+2.0	+3.0	(c)
Centerline alignment (ft)	+0.2	+0.2	+0.5	+0.5	+1.0	+1.0	+1.5	+1.5	+2.0	+3.0	+3.0	+5.0	(c)
Slopes, excavation, and embankment (% slope ^(b))	+3	+5	+5	+5	+5	+5	+10	+10	+10	+10	+20	+20	+20

(a) Maximum allowable deviation from construction stakes and drawings.

(b) Maximum allowable deviation from staked slope measured from slope stakes or hinge points.

(c) Unless otherwise shown the centerline alignment and subgrade elevation, as built, have no horizontal curves with a radius of less than 80 feet, and no vertical curves with a curve length of less than 80 feet when the algebraic difference in the grade change is less than 10 percent; or a curve length of less than 100 feet when the algebraic difference of the grade change is greater than or equal to 10 percent. The centerline grade is not to exceed 20 percent in 100 feet of length.

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703 - Aggregate

703.05_National_7_18_2017

Delete Subsection 703.05(c)(3) and Replace with the following:

703.05 (c) Surface course aggregate. (3) Plastic Index

(3) Plastic Index, AASHTO T 90

If the percent passing the No. 200 sieve is less than 12%

2 to 9

If the percent passing the No. 200 sieve is greater than 12%

Less than 2

703.05_National_6_7_2018

Delete 703.05 and replace with the following:

703.05 Subbase, Base, Surface Course, and Screened Aggregate.

(a) Subbase or base aggregate. Furnish hard, durable particles or fragments of crushed stone, crushed slag, or crushed gravel conforming the following:

(1) Gradation	Table 703-2
(2) Liquid limit, AASHTO T 89	25 max.
(3) Plastic limit, AASHTO T 90	Nonplastic
(4) Los Angeles abrasion, AASHTO T 96	40% max.
(5) Sodium sulfate soundness loss (5 cycles), AASHTO T 104	12% max.
(6) Durability index (coarse), AASHTO T 210	35 min.
(7) Durability index (fine), AASHTO T 210	35 min.
(8) Fractured faces, ASTM D 5821	50% min.
(9) Free from organic matter and lumps or balls of clay	

Do not use material that breaks up when alternately frozen and thawed or wetted and dried.

Obtain the aggregate gradation by crushing, screening, and blending processes as necessary. Fine aggregate, material passing the No. 4 sieve, shall consist of natural or crushed sand and fine mineral particles.

(b) Surface course aggregate. Furnish hard, durable particles or fragments of crushed stone, crushed slag, or crushed gravel conforming the following:

(1) Gradation	Table 703-3
(2) Liquid limit, AASHTO T 89	35 max.
(3) Plastic Index, AASHTO T 90	
a) If the percent passing the No. 200 sieve is less than 12%	2 to 9
b) If the percent passing the No. 200 sieve is greater than 12%	Less than 2
(4) Los Angeles abrasion, AASHTO T 96	40% max.
(5) Sodium sulfate soundness loss (5 cycles),	12% max.

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- AASHTO T 104
- | | |
|---|----------|
| (6) Durability index (coarse), AASHTO T 210 | 35 min. |
| (7) Durability index (fine), AASHTO T 210 | 35 min. |
| (8) Fractured faces, ASTM D 5821 | 75% min. |
| (9) Free from organic matter and lumps or balls of clay | |

Do not use material that breaks up when alternately frozen and thawed or wetted and dried.

Do not furnish material that contains asbestos fibers.

Obtain the aggregate gradation by crushing, screening, and blending processes as necessary. Fine aggregate, material passing the No. 4 sieve, shall consist of natural or crushed sand and fine mineral particles.

(c) Screened aggregate – Furnish hard, durable particles or fragments of stone, slag, or gravel conforming the following:

- | | |
|--|--------------|
| (1) Gradation | Table 703-16 |
| (2) Plastic Index, AASHTO T 90 | Less than 9 |
| (3) Los Angeles abrasion, AASHTO T 96 | 55% max. |
| (4) Free from organic matter and lumps or balls of clay. | |

Do not use material that breaks up when alternately frozen and thawed or wetted and dried.

Obtain the aggregate gradation by crushing, screening, and blending processes as necessary.

Delete Table 703-2 and replace with the following:

Table 703-2
Target Value Ranges for Subbase and Base Gradation

Sieve Size	Percent by Mass Passing Designated Sieve (AASHTO T 27 and T 11)				
	Grading Designation				
	A (Subbase)	B (Subbase)	C (Base)	D (Base)	E (Base)
2½ inch	100				
2 inch	97 – 100	100	100		
1½ inch		97 – 100			
1 inch	65 – 79 (6)		80 – 100 (6)	100	
¾ inch			64 – 94 (6)	86 – 100 (6)	100
½ inch	45 – 59 (7)				
3/8 inch			40 – 69 (6)	51 – 82 (6)	62 – 90 (6)
No. 4	28 – 42 (6)	40 – 60 (8)	31 – 54 (6)	36 – 64 (6)	36 – 74 (6)
No. 40	9 – 17 (4)			12 – 26 (4)	12 – 26 (4)
No. 200	4.0 – 8.0 (3)	4.0 – 12.0 (4)	4.0 – 7.0 (3)	4.0 – 7.0 (3)	4.0 – 7.0 (3)

() The value in the parentheses is the allowable deviation (±) from the target values..

Delete Table 703-3 and replace with the following:

**Table 703-3
Target Value Ranges for Surface Gradation**

Percent by Mass Passing Designated Sieve (AASHTO T 27 and T 11)

Grading Designation						
F	G	H	S	T	U	
100			100			
97-100	100		72 - 92 (6)	100		
76-89 (6)	97 - 100	97 - 100		71 - 91 (6)	100	
56-68 (6)	70 - 80 (6)	80 - 92 (6)	51 - 71 (6)		71 - 90 (6)	
43-53 (7)	51 - 63 (7)	58 - 70 (7)	36 - 53 (7)	43 - 60 (7)	50 - 68 (7)	
23-32 (6)	28 - 39 (6)	28 - 40 (6)	26 - 40 (6)	30 - 46 (6)	34 - 51 (6)	
15-23 (5)	19 - 27 (5)	16 - 26 (5)	14 - 25 (5)	16 - 28 (5)	19 - 30 (5)	
10.0-16.0 (4)	10.0 - 16.0 (4)	9.0 - 14.0 (4)	8.0 - 15.0 (4)	8.0 - 15.0 (4)	8.0 - 15.0 (4)	

() The value in the parentheses is the allowable deviation (±) from the target values.
If the plasticity index (PI) is greater than 0, the TV range for the No. 200 sieve size is 8-12 (4).

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Sieve Size
1 1/2 inch
1 inch
3/4 inch
1/2 inch
3/8 inch
No. 4
No. 8
No. 16
No. 40
No. 200

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Add Table 703-13:

**Table 703-13
Gradation Requirements for Screened Aggregate**

Sieve Size	Percent by Mass Passing Designated Sieve (AASHTO T 27 and T 11)						
	Grading Designation						
	L	M	N	O	P	Q	R
6 inch	100	100					
4 inch			100	100			
3 inch					100	100	
2 inch							100
No. 4		15-45		15-45		15-45	

703.09_National_7_18_2017

Make the following changes to Subsection 703.09:

703.09 Chip Seal Aggregate.

Delete Subsection 703.09(c) and replace with the following:

(c) Flakiness Index, FLH T 508 30% max.

Add the following to Subsection 703.09:

(g) Adherent coating on the aggregate, 0.5% max.
FLH T 512

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SECTION D--PACKAGING AND MARKING

Project Labeling for Official Correspondence

The Government singularly identifies each project with a contract number at time of award. The contract number is a unique identifier to purposely and permanently represent an awarded project. The Government issued contract number is to be referenced on all official communication, to include emails, starting upon notice of award.

NOTE: Forest Service solicitation and contract identifiers are new effective 01 Oct 2017. The solicitation number, for this requirement, will include an "R" in the identifier. Solicitation numbers look like this: 12010918R0003. Contracts will have a similar identifier but will have a "C" in place of the "R". Contract numbers look like this: 12010918C0010.

SECTION E--INSPECTION AND ACCEPTANCE

FEDERAL ACQUISITION REGULATION (48 CFR CHAPTER 1) CLAUSES

52.246-12 Inspection of Construction (AUG 1996)

SECTION F--DELIVERIES OR PERFORMANCE

FEDERAL ACQUISITION REGULATION (48 CFR CHAPTER 1) CLAUSES

F.1 FAR 52.211-10 Commencement, Prosecution, and Completion of Work (APR 1984)

The Contractor shall be required to commence work under this contract within 10 calendar days after the date the Contractor receives the notice to proceed, (b) prosecute the work diligently, and (c) complete the onsite work ready for use by **July 5, 2020 with a final overall completion date of August 1, 2020**. The time stated for completion shall include final cleanup of the premises, and removal of all equipment.

F.3 NOTIFICATION OF WORK SCHEDULE

At the pre-work meeting provide a proposed schedule of work showing dates of major work items.

SECTION G--CONTRACT ADMINISTRATION DATA

G.1 AGAR 452.215-73 Post Award Conference (NOV 1996)

A post award or pre-work conference with the successful offeror is required. It will be scheduled and held within 14 calendar days after award.

G.2 Electronic Invoicing and Payment Requirements – Invoice Processing Platform (IPP)

- a. Payment requests must be submitted electronically through the U. S. Department of the Treasury's Invoice Processing Platform (IPP). "Payment request" means any request for contract financing payment or invoice payment by the Contractor. To constitute a proper invoice, the payment request must comply with the requirements identified in the applicable Prompt Payment clause included in the contract. The IPP website address is: <https://www.ipp.gov>. The Contractor must use the IPP website to register, access and use IPP for submitting requests for payment. Contractor assistance with enrollment can be obtained by contacting the IPP Production Helpdesk via email IPPCustomerSupport@fms.treas.gov or phone (866) 973-3131.

- b. Final Payment. The final invoice must be accompanied by a release of claims against the Government

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arising by virtue of this contract, other than claims, in stated amounts, that the Contractor has specifically accepted from the operation of the release. Final payment will not be approved without a properly executed Contract Release, Form 6300-16.

- c. In addition, when submitting the invoice, the Contractor shall submit payrolls, subcontractor payment information and a spreadsheet detailing the payment breakdown in accordance with the Pay Items in the Schedule of Items, Section B.1 (either electronically in IPP, hard copy, or via fax) to the Contracting Officer (see FAR 52.232-5 Payments Under Fixed Price Construction Contracts).

G.3 Contract Administration

- a. This contract will be administered by the Contracting Officer located at:

Alaska Region, Acquisition Management
Attn: Mari Meiners
709 W 9th Street
Juneau AK 99802-1628

- b. All matters related to the performance of this contract shall be coordinated through the Contracting Officer.

G.4 DESIGNATION OF CONTRACTING OFFICER'S REPRESENTATIVE

- a. The Contracting Officer designates the Contracting Officer's Representative(s) (COR). The COR is responsible for administering the performance of work under this contract. In no event, however, will any understanding, agreement, modification, change order, or other matter deviating from the terms of this contract be effective or binding upon the Government unless formalized by proper contractual documents executed by the Contracting Officer prior to completion of the contract.
- b. The Contracting Officer should be informed as soon as possible of any actions or inactions by the Contractor or the Government which will change the required delivery or completion times stated in the contract, and the contract will be modified accordingly. (This does not apply to individual task assignments which were issued by the COR provided they do not affect the delivery schedule or performance period stated in the contract.)
- c. On all matters that pertain to the contract terms, the Contractor must communicate with the Contracting Officer. Whenever, in the opinion of the Contractor, the COR requests effort outside the scope of the contract, the Contractor should so advise the COR. If the COR persists and there still exists a disagreement as to proper contractual coverage, the Contracting Officer should be notified immediately, preferably in writing if time permits. Proceeding with work without proper contractual coverage could result in nonpayment or necessitate submittal of a contract claim.

Contractor's Designated Representative

It is required that the Contractor have a designated representative available on the project during the entire project and that the representative be able to speak and understand English. When designating a representative, the Contractor shall furnish a copy of the designation in writing to the Contracting Officer. Such designation shall clearly indicate the name and limitations (if any) of authority of the representative. If the Contractor intends to designate a representative prior to the pre-work meeting, the representative is strongly encouraged to attend that meeting.

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SECTION H--SPECIAL CONTRACT REQUIREMENTS

H.1 ARCHAEOLOGICAL OR HISTORIC SITES (The following is in addition to AGAR Clause 452.236-73 Archaeological or Historic Sites (NOV 1996)).

This area does not contain known historic properties. If a previously unidentified archaeological or historic site(s) is encountered, the contractor shall discontinue work in the general area of the site(s) and notify the contracting officer immediately.

H.2 Landscape Preservation

a) No foot traffic or movement of materials or equipment is allowed over uncompleted and unprotected portions of the trail. In areas requiring trail abandonment and rehabilitation, workers shall walk away from the abandoned trail centerline, dispersing their travel route, to avoid damage to the protective surface vegetation. When working within trail corridor to be developed, workers shall walk on the centerline of proposed trail so damage will be covered by new trail construction. Rehabilitate and revegetate sites where damage has occurred to vegetation by naturalizing the ground contours and transplanting plugs of native vegetation from adjacent locations. Rehabilitation and revegetation will be considered incidental to the pay item under which the work is being done, and additional payment will not be made.

b). Operations shall be scheduled and conducted to minimize erosion of soils and to prevent silting and muddying of streams and rivers.

Pollutants such as raw sewage and other harmful materials shall not be discharged into or near streams and rivers or into natural or manmade channels leading thereto.

Waste motor oil, fuel, lubricant, bitumen and similar hydrocarbons shall be collected and returned to the supplier. They shall not be wasted on the ground or buried.

c). Stockpile aggregate and other materials in approved locations. Thoroughly remove all stockpiled material immediately after the use of that stockpile is complete. Restore stockpile sites to a natural-appearing condition.

H.3 Use of Premises

a) Scheduling on-site work: During the summer months, the site is heavily used by guided and unguided visitors for bear watching who would be adversely affected by construction activities. Perform on-site activities only during the period from August 25 through July 5. Additionally, during the period from August 25 through September 30, and July 1 through July 5, there will be individual day closures to allow for use by tour visitors; coordinate with the Forest Service Wrangell Ranger District staff to determine the closure days two weeks prior to those dates.

b) No camping is allowed at the project site. The contractor may rent the Anan Bay Cabin under the same rules as the general public.

c) Cultural resources may be present in the project area. Prior to ground disturbing activities a Forest Service archaeologist will conduct a Section 106 review as per implementing regulations of the National Historic Preservation Act. Prior to any ground disturbing activities, the contractor shall arrange an onsite meeting with the Forest Service COR and Archeologist to review contract requirements for protection of

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such resources.

d) If any additional survey markers are discovered which were not previously identified, these must be protected. Notify the COR of the finding as soon as practicable. **THE CONTRACTOR SHALL BE LIABLE FOR ANY DISTURBANCE OR DESTRUCTION OF SURVEY MARKERS THAT REQUIRES THE AREA TO BE RESURVEYED.**

e) The area may be visited by black bears and brown bears. Bears may be attracted by activity and food and become habituated to humans and learn to associate them with food. Store food in bear-proof containers or hang at least 12 feet above ground if working from a camp. Do not leave any food scraps at any time in camp or on the trail.

f) Sanitation Facilities: Unless provided otherwise, the Contractor shall provide and maintain the following facilities:

1. Potable water supplies for drinking, washing, and cooking shall meet the State of Alaska drinking water regulations 18 AAC 80. Drinking water may not be available at the camp location.
2. Domestic sewerage shall meet the State of Alaska wastewater disposal regulations 18 AAC 72.
3. Solid waste shall be removed and disposed of in Petersburg or other approved location.
4. Fuel storage shall meet the requirements of 40 CFR 112 (Oil Pollution Prevention).

g) Transportation, Access and Equipment: Do not allow helicopter flights directly over persons on the ground at any location.

h) There are no known eagle nest trees in the vicinity of the project area, but if such trees are discovered no disturbance will be allowed within 330 feet of the trees and additional mitigation measures may be applied.

i) This project has not been designed to be compatible with land-based motorized equipment such as small scale excavators and track haulers. If the use of equipment is proposed for any portion of the project, provide an equipment operation plan that describes the type of equipment, how the equipment will be used, what mitigation measures will be followed to minimize adverse affects, how the equipment will be moved to and from the work areas, and other considerations as required. The CO must approve such use prior to start of work.

j) The use of helicopters in the project area is allowed.

k) No dogs are allowed at the project area at any time.

H.4 Construction Stakes, Lines, and Grades

The Government will field stake stations for work areas listed in the Anan Trail Reconstruction Log and in Section J. Provide any other construction survey work required to complete the project.

H.6 Disposal of Waste Material

Remove all waste material from the project area and dispose offsite unless specified otherwise.

H.7 Notification of Work Schedule

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At the pre-work meeting provide a proposed schedule of work showing dates of major work items, camp establishment, sample work and subgrade approval, helicopter operations and other main items of work.

Call the COR on the telephone each week when work is proceeding to discuss the work for the upcoming week and onsite inspection requirements. Call on Monday morning or at another mutually agreeable time.

SPECIAL NOTE

"The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotope, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, DC 20250-9410, or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer."

PART II--CONTRACT CLAUSES

SECTION I--CONTRACT CLAUSES

FEDERAL ACQUISITION REGULATION (48 CFR CHAPTER 1) CLAUSES

52.202-1	Definitions (NOV 2013)
52.203-3	Gratuities (APR 1984)
52.203-5	Covenant Against Contingent Fees (MAY 2014)
52.203-6	Restrictions on Subcontractor Sales to the Government (SEP 2006)
52.203-7	Anti-Kickback Procedures (MAY 2014)
52.203-8	Cancellation, Rescission, and Recovery of Funds for Illegal or Improper Activity (MAY 2014)
52.203-10	Price or Fee Adjustment for Illegal or Improper Activity (MAY 2014)
52.203-12	Limitation on Payments to Influence Certain Federal Transactions (OCT 2010)
52.203-13	Contractor Code of Business Ethics and Conduct (OCT 2015)
52.203-17	Contractor Employee Whistleblower Rights and Requirement to Inform Employees of Whistleblower Rights (APR 2014)
52.204-4	Printed or Copied Double-Sided on Postconsumer Fiber Content Paper (May 2011)
52.204-10	Reporting Executive Compensation and First-Tier Subcontract Awards (OCT 2018)
52.204-13	System for Award Management Maintenance (OCT 2018)
52.204-14	Service Contract Reporting Requirements (OCT 2016)
52.204-18	Commercial and Government Entity Code Maintenance (JUL 2016)
52.204-19	Incorporation by Reference of Representations and Certifications (Dec 2014) The Contractor's representations and certifications, including those completed electronically via the System for Award Management (SAM), are incorporated by reference into the contract.
52.209-6	Protecting the Government's Interest when Subcontracting with Contractors Debarred, Suspended, or Proposed for Debarment (OCT 2015)
52.209-10	Prohibition on Contracting with Inverted Domestic Corporations (NOV 2015)
52.215-2	Audit and Records – Negotiation (OCT 2010)
52.217-7	Option for Increased Quantity – Separately Priced Line Item (Mar 1989) (Fill-in: Option Item #1- February 1, 2020; Option Item #2 – March 1, 2020)

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52.219-6	Notice of Total Small Business Set-Aside (NOV 2011)
52.219-8	Utilization of Small Business Concerns (NOV 2016)
52.219-14	Limitations on Subcontracting (OCT 2018)
52.219-28	Post-Award Small Business Program Representation (JUL 2013)
52.222-3	Convict Labor (JUN 2003)
52.222-4	Contract Work Hours and Safety Standards -- Overtime Compensation (MAY 2018)
52.222-6	Construction Wage Rate Requirements (AUG 2018)
52.222-7	Withholding of Funds (MAY 2014)
52.222-8	Payrolls and Basic Records (AUG 2018)
52.222-9	Apprentices and Trainees (JUL 2005)
52.222-10	Compliance with Copeland Act Requirements (FEB 1988)
52.222-11	Subcontracts (Labor Standards) (MAY 2014)
52.222-12	Contract Termination - Debarment (MAY 2014)
52.222-13	Compliance with Construction Wage Requirements and Related Regulations (MAY 2014)
52.222-14	Disputes Concerning Labor Standards (FEB 1988)
52.222-15	Certification of Eligibility (MAY 2014)
52.222-21	Prohibition of Segregated Facilities (Apr 2015)
52.222-26	Equal Opportunity (Sep 2016)
52.222-27	Affirmative Action Compliance Requirements for Construction (Apr 2015)
52.222-35	Equal Opportunity for Veterans (OCT 2015)
52.222-36	Equal Opportunity for Workers With Disabilities (JUL 2014)
52.222-37	Employment Reports on Veterans (FEB 2016)
52.222-40	Notification of Employee Rights Under the National Labor Relations Act (DEC 2010)
52.222-50	Combating Trafficking in Persons (JAN 2019)
52.222-54	Employment Eligibility Verification (OCT 2015)
52.222-55	Establishing a Minimum Wage for Contractors (DEC 2015)
52.223-2	Affirmative Procurement of Biobased Products under Service and Construction Contracts (SEP 2013)
52.223-3	Hazardous Material and Material Safety Data (JAN 1997)
52.223-5	Pollution Prevention and Right-to-Know Information (MAY 2011)
52.223-6	Drug-Free Workplace (MAY 2001)
52.223-9	Estimate of percentage of Recovered Material Content for EPA-Designated Products (May 2008)

(a) *Definitions.* As used in this clause—

“Postconsumer material” means a material or finished product that has served its intended use and has been discarded for disposal or recovery, having completed its life as a consumer item. Postconsumer material is a part of the broader category of “recovered material.”

“Recovered material” means waste materials and by-products recovered or diverted from solid waste, but the term does not include those materials and by-products generated from, and commonly reused within, an original manufacturing process.

(b) The Contractor, on completion of this contract, shall—

(1) Estimate the percentage of the total recovered material content for EPA-designated item(s) delivered and/or used in contract performance, including, if applicable, the percentage of postconsumer material content; and

(2) Submit this estimate to _____ [*Contracting Officer complete in accordance with agency procedures*].

Certification

I, _____ (name of certifier), am an officer or employee responsible for the performance of this contract and hereby certify that the percentage of recovered material content for EPA-designated items met the applicable contract specifications or other contractual requirements.

[Signature of the Officer or Employee]

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[Typed Name of the Officer or Employee]

[Title]

[Name of Company, Firm, or Organization]

[Date]

- 52.223-17 Affirmative Procurement of EPA-designated Items in Service and Construction Contracts (AUG 2018)
- 52.223-18 Encouraging Contractor Policies to Ban Text Messaging While Driving (AUG 2011)
- 52.225-9 Buy American Act-Construction Materials (MAY 2014)
(a) *Definitions*. As used in this clause—

“Commercially available off-the-shelf (COTS) item”—

- (1) Means any item of supply (including construction material) that is—
- (i) A commercial item (as defined in paragraph (1) of the definition at FAR 2.101);
 - (ii) Sold in substantial quantities in the commercial marketplace; and
 - (iii) Offered to the Government, under a contract or subcontract at any tier, without modification, in the same form in which it is sold in the commercial marketplace; and
- (2) Does not include bulk cargo, as defined in 46 U.S.C. 40102(4), such as agricultural products and petroleum products.

“Component” means an article, material, or supply incorporated directly into a construction material.

“Construction material” means an article, material, or supply brought to the construction site by the Contractor or a subcontractor for incorporation into the building or work. The term also includes an item brought to the site preassembled from articles, materials, or supplies. However, emergency life safety systems, such as emergency lighting, fire alarm, and audio evacuation systems, that are discrete systems incorporated into a public building or work and that are produced as complete systems, are evaluated as a single and distinct construction material regardless of when or how the individual parts or components of those systems are delivered to the construction site. Materials purchased directly by the Government are supplies, not construction material.

“Cost of components” means--

- (1) For components purchased by the Contractor, the acquisition cost, including transportation costs to the place of incorporation into the construction material (whether or not such costs are paid to a domestic firm), and any applicable duty (whether or not a duty-free entry certificate is issued); or
- (2) For components manufactured by the Contractor, all costs associated with the manufacture of the component, including transportation costs as described in paragraph (1) of this definition, plus allocable overhead costs, but excluding profit. Cost of components does not include any costs associated with the manufacture of the construction material.

“Domestic construction material” means—

- (1) An unmanufactured construction material mined or produced in the United States;
- (2) A construction material manufactured in the United States, if—
- (i) The cost of its components mined, produced, or manufactured in the United States exceeds 50 percent of the cost of all its components. Components of foreign origin of the same class or kind for which non-availability determinations have been made are treated as domestic; or
 - (ii) The construction material is a COTS item.

“Foreign construction material” means a construction material other than a domestic construction material.

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“United States” means the 50 States, the District of Columbia, and outlying areas.

(b) *Domestic preference.*

(1) This clause implements the 41 U.S.C. chapter 83, Buy American, by providing a preference for domestic construction material. In accordance with 41 U.S.C. 1907, the component test of the Buy American statute is waived for construction material that is a COTS item. (See FAR 12.505(a)(2)). The Contractor shall use only domestic construction material in performing this contract, except as provided in paragraphs (b)(2) and (b)(3) of this clause.

(2) This requirement does not apply to information technology that is a commercial item or to the construction materials or components listed by the Government as follows: none [*Contracting Officer to list applicable excepted materials or indicate “none”*]

(3) The Contracting Officer may add other foreign construction material to the list in paragraph (b)(2) of this clause if the Government determines that

- (i) The cost of domestic construction material would be unreasonable. The cost of a particular domestic construction material subject to the requirements of the Buy American statute is unreasonable when the cost of such material exceeds the cost of foreign material by more than 6 percent;
- (ii) The application of the restriction of the Buy American statute to a particular construction material would be impracticable or inconsistent with the public interest; or
- (iii) The construction material is not mined, produced, or manufactured in the United States in sufficient and reasonably available commercial quantities of a satisfactory quality.

(c) *Request for determination of inapplicability of the Buy American statute.*

(1)

(i) Any Contractor request to use foreign construction material in accordance with paragraph (b)(3) of this clause shall include adequate information for Government evaluation of the request, including--

- (A) A description of the foreign and domestic construction materials;
- (B) Unit of measure;
- (C) Quantity;
- (D) Price;
- (E) Time of delivery or availability;
- (F) Location of the construction project;
- (G) Name and address of the proposed supplier; and
- (H) A detailed justification of the reason for use of foreign construction materials cited in accordance with paragraph (b)(3) of this clause.

(ii) A request based on unreasonable cost shall include a reasonable survey of the market and a completed price comparison table in the format in paragraph (d) of this clause.

(iii) The price of construction material shall include all delivery costs to the construction site and any applicable duty (whether or not a duty-free certificate may be issued).

(iv) Any Contractor request for a determination submitted after contract award shall explain why the Contractor could not reasonably foresee the need for such determination and could not have requested the determination before contract award. If the Contractor does not submit a satisfactory explanation, the Contracting Officer need not make a determination.

(2) If the Government determines after contract award that an exception to the Buy American statute applies and the Contracting Officer and the Contractor negotiate adequate consideration, the Contracting Officer will modify the contract to allow use of the foreign construction material. However, when the basis for the exception is the unreasonable price of a domestic construction material, adequate consideration is not less than the differential established in paragraph (b)(3)(i) of this clause.

(3) Unless the Government determines that an exception to the Buy American statute applies, use

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of foreign construction material is noncompliant with the Buy American statute.

(d) *Data*. To permit evaluation of requests under paragraph (c) of this clause based on unreasonable cost, the Contractor shall include the following information and any applicable supporting data based on the survey of suppliers:

Foreign and Domestic Construction Materials Price Comparison

Construction material description	Unit of measure	Quantity	Price (dollars) *
<i>Item 1</i>			
Foreign construction material			
Domestic construction material			
<i>Item 2</i>			
Foreign construction material			
Domestic construction material			

[List name, address, telephone number, and contact for suppliers surveyed. Attach copy of response; if oral, attach summary.]

[Include other applicable supporting information.]

[*Include all delivery costs to the construction site and any applicable duty (whether or not a duty-free entry certificate is issued).]

- 52.225-13 Restrictions on Certain Foreign Purchases (JUN 2008)
- 52.227-1 Authorization and Consent (DEC 2007)
- 52.227-2 Notice and Assistance Regarding Patent and Copyright Infringement (DEC 2007)
- 52.227-4 Patent Indemnity – Construction Contracts (DEC 2007)
- 52.228-1 Bid Guarantee. (Sep 1996) *Fill-in: twenty percent (20%)* of the bid price or \$3 million, whichever is less.
- 52.228-2 Additional Bond Security (OCT 1997)
- 52.228-11 Pledges of Assets (JAN 2012)
- 52.228-12 Prospective Subcontractor Requests for Bonds (MAY 2014)
- 52.228-14 Irrevocable Letter of Credit (Nov 2014)
- 52.228-15 Performance and Payment Bonds – Construction (OCT 2010)
- 52.229-3 Federal, State, and Local Taxes (FEB 2013)
- 52.232-5 Payments under Fixed-Price Construction Contracts (MAY 2014)
- 52.232-17 Interest (MAY 2014)
- 52.232-23 Assignment of Claims (MAY 2014)
- 52.232-27 Prompt Payment for Construction Contracts (JAN 2017)
- 52.232-33 Payment by Electronic Funds Transfer – System for Award Management (OCT 2018)
- 52.232-39 Unenforceability of Unauthorized Obligations. (Jun 2013)
- 52.232-40 Providing Accelerated Payments to Small Business Subcontractors. (Dec 2013)
- 52.233-1 Disputes (MAY 2014)
- 52.233-3 Protest After Award (AUG 1996)
- 52.233-4 Applicable Law for Breach of Contract Claim (OCT 2004)
- 52.236-2 Differing Site Conditions (APR 1984)
- 52.236-3 Site Investigation and Conditions Affecting the Work (APR 1984)
- 52.236-5 Material and Workmanship (APR 1984)
- 52.236-6 Superintendence by the Contractor (APR 1984)
- 52.236-7 Permits and Responsibilities (NOV 1991)
- 52.236-8 Other Contracts (APR 1984)
- 52.236-9 Protection of Existing Vegetation, Structures, Equipment, Utilities, and Improvements (APR 1984)

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- 52.236-10 Operations and Storage Areas (APR 1984)
- 52.236-11 Use and Possession Prior to Completion (APR 1984)
- 52.236-12 Cleaning Up (APR 1984)
- 52.236-13 Accident Prevention (NOV 1991), Alternate I (NOV 1991)
- 52.236-17 Layout of Work (APR 1984)
- 52.236-21 Specifications and Drawings for Construction (FEB 1997)
- 52.236-26 Preconstruction Conference (FEB 1995)
- 52.242-13 Bankruptcy (JUL 1995)
- 52.242-14 Suspension of Work (APR 1984)
- 52.243-4 Changes (JUN 2007)
- 52.244-6 Subcontracts for Commercial Items (JAN 2019)
- 52.245-1 Government Property (JAN 2017)
(See specifications paragraph C.1(f))
- 52.245-9 Use and Charges (APR 2012)
- 52.246-21 Warranty of Construction (MAR 1994)
Alternate I (APR 1984)
- 52.248-3 Value Engineering -- Construction (OCT 2015)
- 52.249-2 Termination for Convenience of the Government (Fixed-Price) (APR 2012);
Alternate I (SEP 1996)
- 52.249-10 Default (Fixed-Price Construction) (APR 1984)
- 52.252-2 Clauses Incorporated by Reference (FEB 1998)
This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es): www.acquisition.gov/far/
www.usda.gov/procurement/policy/agar.html
- 52.253-1 Computer Generated Forms (JAN 1991)

AGRICULTURE ACQUISITION REGULATION (48 CFR CHAPTER 4) CLAUSES

- 452.228-70 Alternative Forms of Security (NOV 1996)
If furnished as security, money orders, drafts, cashier's checks, or certified checks shall be drawn payable to: USDA Forest Service.
- 452.232-70 Reimbursement for Bond Premiums – Fixed-Price Construction Contracts (NOV 1996)
- 452.236-72 Use of Premises (NOV 1996)
- 452.236-73 Archeological or Historic Sites (FEB 1988)
- 452.236-74 Control of Erosion, Sedimentation and Pollution (NOV 1996)
- 452.236-76 Samples and Certificates (FEB 1988)
- 452.236-77 Emergency Response (NOV 1996)

PART III--LIST OF DOCUMENTS, EXHIBITS, AND OTHER ATTACHMENTS

SECTION J--LIST OF DOCUMENTS, EXHIBITS, AND OTHER ATTACHMENTS

The following attachments are made a part of this solicitation and any resultant contract.

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Title	Pages
1. Anan Trail Reconstruction Drawing Set	17
2. Anan Trail Logs	7
3. DOL Wage Decision No. AK20190001, Mod 09, 06/14/2019	25

NOTE: IN COMPLIANCE WITH THE PAPER REDUCTION ACT, SECTIONS K, L, AND M, WHICH APPLY ONLY TO THE SOLICITATION PHASE, ARE NOT DUPLICATED AFTER CONTRACT AWARD. HOWEVER, SECTION K WILL BE INCORPORATED BY REFERENCE INTO THE RESULTING CONTRACT.

PART IV--REPRESENTATIONS AND INSTRUCTIONS

SECTION K--REPRESENTATIONS, CERTIFICATIONS, AND OTHER STATEMENTS OF OFFERORS OR RESPONDENTS

FEDERAL ACQUISITION REGULATION (48 CFR CHAPTER 1) CLAUSES

52.203-11 Certification and Disclosure Regarding Payments to Influence Certain Federal Transactions. (Sept 2007)

52.204-8 -- Annual Representations and Certifications. (Oct 2018)

(a)

- (1) The North American Industry classification System (NAICS) code for this acquisition is 237990.
- (2) The small business size standard is \$36.5M.
- (3) The small business size standard for a concern which submits an offer in its own name, other than on a construction or service contract, but which proposes to furnish a product which it did not itself manufacture, is 500 employees.

(b)

- (1) If the provision at 52.204-7, System for Award Management, is included in this solicitation, paragraph (d) of this provision applies.
- (2) If the provision at 52.204-7, System for Award Management, is not included in this solicitation, and the Offeror has an active registration in the System for Award Management (SAM), the Offeror may choose to use paragraph (d) of this provision instead of completing the corresponding individual representations and certifications in the solicitation. The Offeror shall indicate which option applies by checking one of the following boxes:

(i) Paragraph (d) applies.

(ii) Paragraph (d) does not apply and the offeror has completed the individual representations and certifications in the solicitation.

(c)

- (1) The following representations or certifications in SAM are applicable to this solicitation as indicated:
 - (i) 52.203-2, Certificate of Independent Price Determination. This provision applies to solicitations when a firm-fixed-price contract or fixed-price contract with economic price adjustment is contemplated, unless—
 - (A) The acquisition is to be made under the simplified acquisition procedures in Part 13;
 - (B) The solicitation is a request for technical proposals under two-step sealed bidding procedures; or
 - (C) The solicitation is for utility services for which rates are set by law or regulation.
 - (ii) 52.203-11, Certification and Disclosure Regarding Payments to Influence Certain Federal Transactions. This provision applies to solicitations expected to exceed \$150,000.
 - (iii) 52.203-18, Prohibition on Contracting with Entities that Require Certain Internal Confidentiality Agreements or Statements—Representation. This provision applies to all solicitations.

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- (iv) 52.204-3, Taxpayer Identification. This provision applies to solicitations that do not include the provision at 52.204-7, System for Award Management.
- (v) 52.204-5, Women-Owned Business (Other Than Small Business). This provision applies to solicitations that—
 - (A) Are not set aside for small business concerns;
 - (B) Exceed the simplified acquisition threshold; and
 - (C) Are for contracts that will be performed in the United States or its outlying areas.
- (vi) 52.209-2, Prohibition on Contracting with Inverted Domestic Corporations—Representation.
- (vii) 52.209-5; Certification Regarding Responsibility Matters. This provision applies to solicitations where the contract value is expected to exceed the simplified acquisition threshold.
- (viii) 52.209-11, Representation by Corporations Regarding Delinquent Tax Liability or a Felony Conviction under any Federal Law. This provision applies to all solicitations.
- (ix) 52.214-14, Place of Performance--Sealed Bidding. This provision applies to invitations for bids except those in which the place of performance is specified by the Government.
- (x) 52.215-6, Place of Performance. This provision applies to solicitations unless the place of performance is specified by the Government.
- (xi) 52.219-1, Small Business Program Representations (Basic & Alternate I). This provision applies to solicitations when the contract will be performed in the United States or its outlying areas.
 - (A) The basic provision applies when the solicitations are issued by other than DoD, NASA, and the Coast Guard.
 - (B) The provision with its Alternate I applies to solicitations issued by DoD, NASA, or the Coast Guard.
- (xii) 52.219-2, Equal Low Bids. This provision applies to solicitations when contracting by sealed bidding and the contract will be performed in the United States or its outlying areas.
- (xiii) 52.222-22, Previous Contracts and Compliance Reports. This provision applies to solicitations that include the clause at 52.222-26, Equal Opportunity.
- (xiv) 52.222-25, Affirmative Action Compliance. This provision applies to solicitations, other than those for construction, when the solicitation includes the clause at 52.222-26, Equal Opportunity.
- (xv) 52.222-38, Compliance with Veterans' Employment Reporting Requirements. This provision applies to solicitations when it is anticipated the contract award will exceed the simplified acquisition threshold and the contract is not for acquisition of commercial items.
- (xvi) 52.223-1, Biobased Product Certification. This provision applies to solicitations that require the delivery or specify the use of USDA-designated items; or include the clause at 52.223-2, Affirmative Procurement of Biobased Products Under Service and Construction Contracts.
- (xvii) 52.223-4, Recovered Material Certification. This provision applies to solicitations that are for, or specify the use of, EPA- designated items.
- (xviii) 52.223-22, Public Disclosure of Greenhouse Gas Emissions and Reduction Goals—Representation. This provision applies to solicitations that include the clause at 52.204-7.
- (xix) 52.225-2, Buy American Certificate. This provision applies to solicitations containing the clause at 52.225-1.
- (xx) 52.225-4, Buy American--Free Trade Agreements--Israeli Trade Act Certificate. (Basic, Alternates I, II, and III.) This provision applies to solicitations containing the clause at 52.225- 3.
 - (A) If the acquisition value is less than \$25,000, the basic provision applies.
 - (B) If the acquisition value is \$25,000 or more but is less than \$50,000, the provision with its Alternate I applies.
 - (C) If the acquisition value is \$50,000 or more but is less than \$80,317, the provision with its Alternate II applies.
 - (D) If the acquisition value is \$80,317 or more but is less than \$100,000, the provision with its Alternate III applies.
- (xxi) 52.225-6, Trade Agreements Certificate. This provision applies to solicitations containing the clause at 52.225-5.
- (xxii) 52.225-20, Prohibition on Conducting Restricted Business Operations in Sudan--Certification. This provision applies to all solicitations.

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(xxiii) 52.225-25, Prohibition on Contracting with Entities Engaging in Certain Activities or Transactions Relating to Iran—Representation and Certification. This provision applies to all solicitations.

(xxiv) 52.226-2, Historically Black College or University and Minority Institution Representation. This provision applies to solicitations for research, studies, supplies, or services of the type normally acquired from higher educational institutions.

(2) The following representations or certifications are applicable as indicated by the Contracting Officer: [Contracting Officer check as appropriate.]

___ (i) 52.204-17, Ownership or Control of Offeror.

___ (ii) 52.204-20, Predecessor of Offeror.

___ (iii) 52.222-18, Certification Regarding Knowledge of Child Labor for Listed End Products.

___ (iv) 52.222-48, Exemption from Application of the Service Contract Labor Standards to Contracts for Maintenance, Calibration, or Repair of Certain Equipment--Certification.

___ (v) 52.222-52 Exemption from Application of the Service Contract Labor Standards to Contracts for Certain Services--Certification.

___ (vi) 52.223-9, with its Alternate I, Estimate of Percentage of Recovered Material Content for EPA-Designated Products (Alternate I only).

___ (vii) 52.227-6, Royalty Information.

___ (A) Basic.

___ (B) Alternate I.

___ (viii) 52.227-15, Representation of Limited Rights Data and Restricted Computer Software.

(d) The Offeror has completed the annual representations and certifications electronically in SAM accessed through <https://www.sam.gov>. After reviewing the SAM information, the Offeror verifies by submission of the offer that the representations and certifications currently posted electronically that apply to this solicitation as indicated in paragraph (c) of this provision have been entered or updated within the last 12 months, are current, accurate, complete, and applicable to this solicitation (including the business size standard applicable to the NAICS code referenced for this solicitation), as of the date of this offer and are incorporated in this offer by reference (see FAR 4.1201); except for the changes identified below [offeror to insert changes, identifying change by clause number, title, date]. These amended representation(s) and/or certification(s) are also incorporated in this offer and are current, accurate, and complete as of the date of this offer.

FAR Clause	Title	Date	Change

Any changes provided by the offeror are applicable to this solicitation only, and do not result in an update to the representations and certifications posted on SAM.

52.222-22 Previous Contracts and Compliance Reports. (Feb 1999)

The offeror represents that:

It has, has not participated in a previous contract or subcontract subject to the Equal Opportunity clause of this solicitation;

It has, has not filed all required compliance reports; and

Representations indicating submission of required compliance reports, signed by proposed subcontractors, will be obtained before subcontract awards.

52.222-38 -- Compliance with Veterans' Employment Reporting Requirements. (Feb 2016)

52.225-25 -- Prohibition on Contracting with Entities Engaging in Certain Activities or Transactions Relating to Iran—Representation and Certifications. (Aug 2018)

52.236-28 Preparation of Proposals – Construction (OCT 1997)

52.252-1 Solicitation Provisions Incorporated by Reference (FEB 1998)

This solicitation incorporates one or more solicitation provisions by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text

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available. The offeror is cautioned that the listed provisions may include blocks that must be completed by the offeror and submitted with its quotation or offer. In lieu of submitting the full text of those provisions, the offeror may identify the provision by paragraph identifier and provide the appropriate information with its quotation or offer. Also, the full text of a solicitation provision may be accessed electronically at this/these address(es):

www.acquisition.gov/far/ www.usda.gov/procurement/policy/agar.html

AGRICULTURE ACQUISITION REGULATION (48 CFR CHAPTER 4) CLAUSES

452.219-70 Size Standard and NAICS Code Information (SEP 2001)

The North American Industrial Classification System Code(s) and business size standard(s) describing the products and/or services to be acquired under this solicitation are listed below:

Contract line item(s): All
--NAICS Code 237990-Other Heavy and Civil Engineering Construction
--Size Standard \$36.5 million

The small business size standard for a concern which submits an offer in its own name, other than on a construction or service contract, but which proposes to furnish a product which it did not itself manufacture, is 500 employees.

ALASKA NATIVE OR INDIAN-OWNED BUSINESS

(a) General. This provision is used to assess the level of procurement opportunities made available to Alaska Native or Indian-Owned Businesses in Region 10 of the USDA, Forest Service. Status as an Alaska Native or Indian-Owned Business is collected for general statistical purposes.

(b) Definitions. As used in this provision—

"Indian" means a person who is a member of an Indian tribe.

"Indian organization" means the governing body of any Indian tribe or entity established or recognized by the governing body of an Indian tribe for the purposes of 25 U.S.C., chapter 17.

"Indian-owned economic enterprise" means any Indian-owned (as determined by the Secretary of the Interior) commercial, industrial, or business activity established or organized for the purpose of profit, provided that Indian ownership constitutes not less than 51 percent of the enterprise.

"Indian tribe" means any Indian tribe, band, nation, or other organized group or community, which is recognized as eligible for the special programs and services provided by the United States to Indians because of their status as Indians."

"ANCSA Corporation" means any Alaska Native village, urban, or Regional Corporation as defined in or established pursuant to the Alaska Native Claims Settlement Act.

(c) Representation. The Offeror represents itself, as part of this offer, that it is an:

- (1) Indian or Alaska Native
- (2) Indian or Alaska Native Organization
- (3) Indian-Owned or Alaska Native-Owned Economic Enterprise
- (4) Indian or Alaska Native Tribe
- (5) ANCSA Corporation

SECTION L--INSTRUCTIONS, CONDITIONS, AND NOTICES TO OFFERORS OR RESPONDENTS

FEDERAL ACQUISITION REGULATION (48 CFR CHAPTER 1)

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52.204-7 System for Award Management (OCT 2018)

52.204-16 Commercial and Government Entity Code Reporting. (JUL 2016)

52.211-3 Availability Of Specifications Not Listed In The GSA Index Of Federal Specifications, Standards And Commercial Item Descriptions (Jun 1988)

The specifications cited in this solicitation may be obtained from:

Specification	Address
AASHTO Standards	American Association of State Highway and Transportation Officials 341 National Press Building Washington, DC 20024
ACI	American Concrete Institution Box 19150 Redford Station Detroit, MI 48219
ASTM Standards	American Society for Testing Materials 1916 Race Street Philadelphia, PA 19103 (215) 199-5462
AWPA	American Wood Preservers Association PO Box 849 Stevensville, MD 21666
FS	Federal Specifications (GSA) Building 197, Washington Navy Yard, SE Washington, DC 20407
MUTCD	Manual on Uniform Traffic Control Devices Superintendent of Documents U.S. Government Printing Office Washington, DC 20402
WCLIB	West Coast Lumber Inspection Bureau PO Box 23145 Portland, OR 97223
WWPA	Western Wood Products Association (Grading Rules) 1500 Yeon Building Portland, OR 97204

The request should identify the solicitation number and the specification requested by date, title, and number, as cited in the solicitation.

Email Proposal

(a) *Definition.* "Email Proposal," as used in this provision, means a proposal, revision or modification of a proposal, or withdrawal of a proposal that is transmitted to and received by the Government via email.

(b) Offerors may submit email proposals as responses to this solicitation. Email proposals are subject to the same rules as paper proposals. **NOTICE: EMAIL BID GUARANTEES ARE NOT ACCEPTABLE.**

(c) The email address is: denisemurphy@fs.fed.us with copy to mmeiners@fs.fed.us.

(d) The Government reserves the right to make award solely on the email proposal. However, if requested to do so by the Contracting Officer, the apparently successful offeror promptly shall submit the complete original signed proposal.

52.215-1 Instructions to Offerors--Competitive Acquisition (JAN 2017) Alternate II (OCT 1997)

Addendum: Submission of proposals. Your proposal must include of the following:

(1) Signed Standard Form 1442, Solicitation/Offer/Award (Construction, Alteration, Repair), with blocks 14

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– 20c completed by you.

(2) Section B - Schedule of Items, Requirements and Prices with your proposed prices and other required information inserted in the appropriate spaces. All blocks must be completed by the offeror. Proposals shall break out the major price elements (e.g. dewatering, materials, labor, etc.) of item D for price evaluation and post award schedule of values purposes.

(3) Offeror Representations and Certifications – FAR 52.204-8 completed by you and attached to your offer or submitted electronically in the System for Award Management (SAM)

(4) Acknowledgement of solicitation amendments (if any)

(5) Bid Guarantee mailed to address shown in block 8 of the SF 1442. An original bid bond is required no later than to the date and time set for receipt of proposals. Bid bond cannot be emailed.

(6) Information identified below in sufficient detail to allow for evaluation based on the criteria identified in Section M Evaluation Criteria. It is strongly suggested that offerors organize their proposal with individual section that address each of the following evaluation criteria:

- a. Experience: Submit a short narrative providing details of the experience the firm has (either as a prime or sub-contractor) for work similar in nature and scope in geographical conditions similar to this requirement (remote location, damp climate, similar logistical challenges for transporting equipment and materials, care and feeding of crew, etc.). Offerors may include project photos or other information related to experience and capability if desired. Proposals should address (at a minimum) the following questions:
 1. Does your firm have experience with trail improvement or trail construction projects? If yes, please describe.
 2. Does your firm have experience with construction projects located in remote locations where no road access exists? If yes, please describe.
 3. Does your firm have experience with construction or other projects located in cool, damp climates that involve working outdoors? If yes, please describe.
 4. Does your firm have any other type of experience that is similar in scope to the Anan Trail Reconstruction Project? If yes, please describe.
 5. If your firm intends to use a helicopter to deliver materials or supplies, describe your firm's experience with helicopter operations in similar environmental conditions.
- b. Proposed Approach to Performing the Work: Describe your planned approach to performing this work. For example:
 1. What type of equipment do you plan on using?
 2. How will you deliver equipment and materials/supplies to the job site including moving equipment and materials within the site?
 3. Do you plan on using helicopters? If yes, be sure to address your firm's experience
 4. Where will your crew stay and how will they be housed and cared for?
 5. What is your anticipated schedule for completing the work within required period of performance?
- c. Past Performance: submit a list of similar past work the contractor has performed with the past 5 years along with contact information so the government may contact prior customers to evaluate past performance. Information should include the project name, location, description of the work, dollar value and name/phone/email of project owner representative.
- d. Price: submit completed schedule of items with all items priced. Please double check your math to make sure the total for each line item is calculated correctly and the sum of all line items is equal to the

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total price of the base item and each option on the schedule.

(7) Offerors may also include additional information to document equipment or personnel that exceed requirements in a way that the Offeror believes provides value to the government. Other written information may include blueprints, drawings, photographs, etc.

(8) Please contact the Contracting Officer by telephone or by e-mail if you do not understand any part of these instructions.

52.216-1 Type of Contract (APR 1984)

The Government contemplates award of a firm, fixed price contract resulting from this solicitation.

52.222-5 Construction Wage Rate Requirements—Secondary Site of the Work (MAY 2014)

(a)

(1) The offeror shall notify the Government if the offeror intends to perform work at any secondary site of the work, as defined in paragraph (a)(1)(ii) of the FAR clause at 52.222-6, Construction Wage Rate Requirements, of this solicitation.

(2) If the offeror is unsure if a planned work site satisfies the criteria for a secondary site of the work, the offeror shall request a determination from the Contracting Officer.

(b)

(1) If the wage determination provided by the Government for work at the primary site of the work is not applicable to the secondary site of the work, the offeror shall request a wage determination from the Contracting Officer.

(2) The due date for receipt of offers will not be extended as a result of an offeror's request for a wage determination for a secondary site of the work.

52.222-23 Notice of Requirement for Affirmative Action to Ensure Equal Employment Opportunity for Construction (FEB 1999)

Fill In: (b)

Goals for minority participation for each trade

15.1% (8.7% Anchorage)

Goals for female participation for each trade

6.9% Yakutat, Alaska.

52.225-10 Notice of Buy American Act Requirement--Construction Materials (MAY 2014)

(a) *Definitions.* "Commercially available off-the-shelf-(COTS) item," "Construction material," "domestic construction material," and "foreign construction material," as used in this provision, are defined in the clause of this solicitation entitled "Buy American Act--Construction Materials" (Federal Acquisition Regulation (FAR) clause 52.225-9).

(b) *Requests for determinations of inapplicability.* An offeror requesting a determination regarding the inapplicability of the Buy American Act should submit the request to the Contracting Officer in time to allow a determination before submission of offers. The offeror shall include the information and applicable supporting data required by paragraphs (c) and (d) of the clause at FAR 52.225-9 in the request. If an offeror has not requested a determination regarding the inapplicability of the Buy American Act before submitting its offer, or has not received a response to a previous request, the offeror shall include the information and supporting data in the offer.

(c) *Evaluation of offers.*

(1) The Government will evaluate an offer requesting exception to the requirements of the Buy American Act, based on claimed unreasonable cost of domestic construction material, by adding to the offered price the appropriate percentage of the cost of such foreign construction material, as specified in paragraph (b)(3)(i) of the clause at FAR 52.225-9.

(2) If evaluation results in a tie between an offeror that requested the substitution of foreign construction material based on unreasonable cost and an offeror that did not request an exception, the Contracting Officer will award to the offeror that did not request an exception based on unreasonable cost.

(d) *Alternate offers.*

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(1) When an offer includes foreign construction material not listed by the Government in this solicitation in paragraph (b)(2) of the clause at FAR 52.225-9, the offeror also may submit an alternate offer based on use of equivalent domestic construction material.

(2) If an alternate offer is submitted, the offeror shall submit a separate Standard Form 1442 for the alternate offer, and a separate price comparison table prepared in accordance with paragraphs (c) and (d) of the clause at FAR 52.225-9 for the offer that is based on the use of any foreign construction material for which the Government has not yet determined an exception applies.

(3) If the Government determines that a particular exception requested in accordance with paragraph (c) of the clause at FAR 52.225-9 does not apply, the Government will evaluate only those offers based on use of the equivalent domestic construction material, and the offeror shall be required to furnish such domestic construction material. An offer based on use of the foreign construction material for which an exception was requested-

- (i) Will be rejected as nonresponsive if this acquisition is conducted by sealed bidding; or
- (ii) May be accepted if revised during negotiations.

52.233-2 Service of Protest (SEP 2006)

(a) Protests, as defined in section 33.101 of the Federal Acquisition Regulation, that are filed directly with an agency, and copies of any protests that are filed with the Government Accountability Office (GAO), shall be served on the Contracting Officer (addressed as follows) by obtaining written and dated acknowledgment of receipt from:

Alaska Region Acquisition Management
Attn: Mari Meiners
P O Box 21628
Juneau AK 99802-1628

(b) The copy of any protest shall be received in the office designated above within one day of filing a protest with the GAO.

52.236-27 Site Visit (Construction) (FEB 1995): Interested contractors may visit the site under the same rules as the general public; for more information see:

<https://www.fs.usda.gov/recarea/tongass/recreation/natureviewing/recarea/?recid=79154&actid=62>

The Government will not schedule a formal site visit.

AGRICULTURE ACQUISITION REGULATIONS (48 CFR CHAPTER 4) CLAUSES

452.204-70 Inquiries (FEB 1988)

452.237-71 Pre-Proposal Conference (FEB (1988))

No pre-proposal conference is anticipated or scheduled for this project.

WORKER'S COMPENSATION LAWS

Alaska state law requires that most employers have Worker's Compensation Insurance for their employees. The Forest Service furnishes contract award information to the Alaska Department of Labor. Failure to comply with the state worker's compensation laws can be a felony offense in Alaska. For the definitions of "employer", "employee", and "subcontractor", rates of compensation, and other pertinent information contact:

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Alaska Department of Labor
Workers Compensation Division
Special Investigations Unit
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SECTION M--EVALUATION FACTORS FOR AWARD

52.217-5 Evaluation of Options (July 1990)

Award Determination

1. Experience

When evaluating Experience, the government will assess the contractor's experience performing relevant work. The term "relevant" means having previously performed like or similar work. The government may use information contained in the proposal (see section L for instructions for submitting a proposal) or information known to or obtained by government representatives even if it is not included in the proposal. Experience that is more relevant to this requirement (meaning experience directly related to the tasks to be performed including trail and bridge construction; working in remote locations not connected to a road system; working outdoors in cool, damp climates; etc.) is considered more valuable than experience that is less relevant.

2. Proposed Approach to Performing the Work

When evaluating the Proposed Approach to Performing the Work, the government will assess the reasonableness of the contractor's proposed approach.

3. Past Performance

Past performance is a measure of the degree to which the offeror (including major subcontracts) has satisfied previous customers and complied with Federal, State and Local laws and regulations. The Government will contact references to assess the quality of the contractor's work, including history of quality workmanship, timely completion, reasonable and cooperative behavior, concern for customer satisfaction and compliance with contract requirements.

Where there is little or no information available regarding the offeror's past performance history because the offeror is new to the marketplace, the past performance evaluation may take into account information regarding predecessor companies, key personnel who have relevant experience, or subcontractors that will perform major or critical aspects of the work. When no information is available, the offeror will not be evaluated favorably or unfavorably on past performance.

The past performance evaluation will characterize the level of the Government's confidence that the offeror will successfully complete the work, in compliance with all contract requirements, based on its record of successful performance on recent and relevant similar projects.

In the past performance evaluation, the Government may use information from sources other than the offeror's proposal. Other sources of information, may include, but are not limited to: Federal, State and Local government agencies, better business bureaus, published media and electronic databases such as the Past Performance Information Retrieval System (PPIRS).

4. Price

12010919R0005, Anan Trail Reconstruction, Wrangell, AK

The proposed price of each acceptable offer will be evaluated for reasonableness in accordance with FAR 15.404-1(b).

Notice of Award

A written notice of award or acceptance of an offer, mailed or otherwise furnished to the successful offeror within the time for acceptance specified in the offer, shall result in a binding contract without further action by either party. Before the offer's specified expiration time, the Government may accept an offer (or part of an offer), whether or not there are negotiations after its receipt, unless a written notice of withdrawal is received before award.