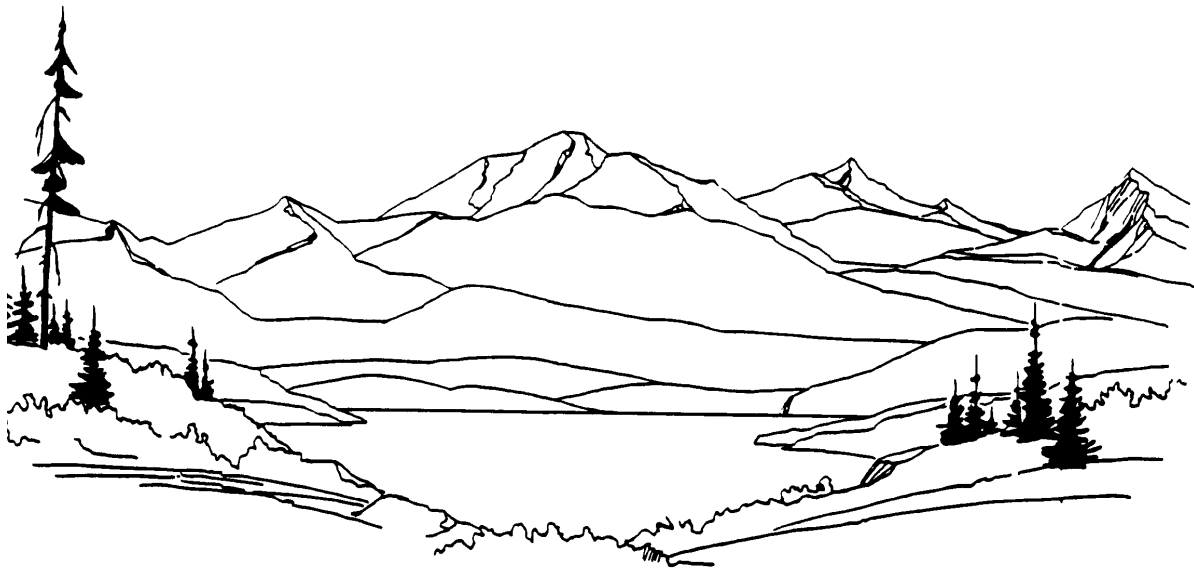


**STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES**

**DIVISION OF PARKS
AND
OUTDOOR RECREATION**



**PROPOSAL, CONTRACT, BOND
AND SPECIAL PROVISIONS**

**ANTLER RIDGE TRAILHEAD
FACILITY IMPROVEMENTS
PROJECT NUMBER 91882-1**

COPY _____

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(Federal Aid - FHWA)

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5. Federal Wage Rates

Federal wage rates can be obtained at <https://sam.gov/content/wage-determinations> for the State of Alaska. Use the federal wage rates that are in effect 10 days before Bid Opening. The Department will include a paper copy of the federal wage rates in the signed Contract.

6. State Wage Rates

State wage rates can be obtained at <http://www.labor.state.ak.us/lss/pamp600.htm>. Use the State wage rates that are in effect 10 days before Bid Opening. The Department will include a paper copy of the State wage rates in the signed Contract.



INVITATION TO BID
for Construction Contract

Date: April 1st, 2026

Antler Ridge Trailhead Facility Improvements, Project No. 91882-1
Project Name and Number

The Department invites bidders to submit bids for furnishing all labor, equipment, and materials and performing all work for the project described below. The Department will only consider bids received **before 2:00 PM local time (per the Department's time source) on the 29th day of April, 2026**. On that date, the Department will assemble, open, and then publicly announce the timely-received bids at **550 W. 7th Avenue, Suite 1340; Anchorage, AK 99501**, at **2:15 PM**, or as soon thereafter as practicable.

Location of Project: Healy, AK
Contracting Officer: Rys Miranda, P.E.
Issuing Office: DNR, Division of Parks and Outdoor Recreation

State Funded Federal Aid

Description of Work:

This project will make improvements to the Antler-Bison Trailhead and social Antler Ridge trail. Improvements include installation of an Interpretive Kiosk and approximately 3.3 miles of trail building.

Project DBE Utilization Goal: Race-Neutral, Goal is 0% Race-Conscious, Goal is 0%

The Engineer's Estimate is: less than \$100,000 between \$1,000,000 and \$2,500,000
 between \$100,000 and \$250,000 between \$2,500,000 and \$5,000,000
 between \$250,000 and \$500,000 greater than \$5,000,000
 between \$500,000 and \$1,000,000

All work shall be completed in N/A Calendar Days, or by November 15th, 2026. The Department will identify interim completion dates, if any, in the Special Provisions.

The apparent successful bidder must furnish a payment bond in the amount of **100%** of the contract and a performance bond in the amount of **100%** of the contract as security conditioned for the full, complete and faithful performance of the contract. The apparent successful bidder must execute the said contract and bonds within fifteen calendar days, or such further time as may be allowed in writing by the Contracting Officer, after receiving notification of the acceptance of their bid.

Submission of Bidding Documents

Bidders may submit bidding documents ~~electronically via the Department's approved online bidding service~~, through the mail or hand delivered. For mailed or hand delivered bids ~~and for electronically submitted bids with a paper bid guaranty~~, documents shall be submitted in a sealed envelope marked as follows:

<p>Bidding Documents for Project: Alaska State Parks Statewide Concrete Toilet Installation Project No. 71882-3</p>	<p>ATTN: DNR, Division of Parks and Outdoor Recreation 550 W. 7th Avenue, Suite 1340 Anchorage, AK 99501</p>
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It is incumbent upon the bidder to ensure its bid, any amendments, and/or withdrawal arrive, in its entirety, at the location and before the deadline stated above. A bidder sending a bid amendment or withdrawal via email or fax must transmit its documentation to the Department at this email address: [Contact Staff on Page 2] or fax number: (907) 269-8917.

To be responsive, a bid must include a bid guaranty equal to 5% of the amount bid. *(When calculating the bid amount for purposes of determining the 5% value of the bid guaranty, a bidder shall include its base bid amount, plus the amount bid for alternate and supplemental bid items, if any.)*

The Department hereby notifies all bidders that it will affirmatively ensure that in any contract entered into pursuant to this Invitation, Disadvantaged Business Enterprises will be afforded full opportunity to submit bids and will not be discriminated against on the grounds of race, color, national origin, or sex in consideration for an award.

NOTICE TO BIDDERS

The following data may assist a bidder in preparing its bid:

SEE SPECIAL NOTICE TO BIDDERS

A bidder may download project plans and specifications from: <http://dnr.alaska.gov/parks/designconstruct/bidcalresults.htm>.
For additional information contact:

Division of Parks and Outdoor Recreation
Design & Construction Section
Phone: (907) 269-8731

If a bidder has a question relating to design features, constructability, quantities, or other technical aspects of the project, it may direct its inquiry to the contact listed below.

A bidder requesting assistance in viewing the project site must make arrangements at least 48 hours in advance.

The point of contact for inquiries for this project is:

Katie Winter, P.E.
Email: katie.winter@alaska.gov
Phone: (907) 269-6410

A bidder may direct questions concerning bidding procedures and requirements to:

Rys Miranda, P.E.
Chief, Design & Construction
550 W. 7th Ave., Suite 1340
Anchorage AK 99501
E-Mail: rys.miranda@alaska.gov
Phone: (907) 269-8736

Other Information:

Bid results are available approximately 30 minutes after bid opening at
<http://dnr.alaska.gov/parks/designconstruct/bidcalresults.htm>

SPECIAL NOTICE TO BIDDERS

The Department hereby notifies bidders that information to assist in preparing bids is available.

1. Publications. The following are available from the Plans Room, download online, or as noted:
 - a. Standard Specifications for Highway Construction, 2020 Edition comb bound (\$25.00), download at: www.dot.state.ak.us/stwddes/dcspsecs/assets/pdf/hwyspecs/sshc2020.pdf, or order bound book from LuLu at: <https://www.lulu.com/en/us/shop/state-of-alaska-dept-of-transportation/2020-alaska-standard-specification-for-highway-construction/paperback/product-1qq9j9qk.html>.
 - b. Alaska Test Methods Manual (Lab & Field), 2025 Edition (\$25.00). Available online at: www.dot.state.ak.us/stwddes/desmaterials/mat_waqtc/testman.shtml.
 - c. Alaska Storm Water Pollution Prevention Plan Guide, March 2021. Available at: www.dot.state.ak.us/stwddes/desenviron/resources/stormwater.shtml.
2. Other Publications. These items are available upon request from the Department of Natural Resources, Division of Parks & Outdoor Recreation, Design & Construction Section at 550 West 7th Avenue, Suite 1340, Anchorage, AK:
 - a. Estimate of Quantity Computations.
 - b. Erosion, Sediment Control Plan (ESCP) in the appendix.
3. Materials Certification List (MCL). The MCL provides the Engineer with the appropriate approving authority. Contractor, submit certification for each material to the Engineer. The MCL is included in Appendix D.
4. Buy America Provision. Effective for Federal award obligations after October 23, 2023, meet the requirements at 2 CFR 184 for construction materials.

Iron products, steel products, and predominantly iron or steel manufactured products remain subject to the requirements of 23 CFR 635.410 and related FHWA Interpretations and waivers.

Manufactured products that are not predominantly iron or steel continue to be waived under FHWA's 1983 waiver of manufactured products.

On August 16, 2023, USDOT issued a waiver at 88 FR 55817 applicable to construction materials on FHWA funded projects.

HSP20-7A revises the specifications in 106-1.01 to incorporate these new requirements.

2 CFR 184: <https://www.federalregister.gov/documents/2023/08/23/2023-17724/guidance-for-grants-and-agreements>.

23 CFR 635.410: <https://www.govinfo.gov/content/pkg/CFR-2022-title23-vol1/xml/CFR-2022-title23-vol1-sec635-410.xml>.

USDOT waiver at 88 FR 55817:

<https://www.federalregister.gov/documents/2023/08/16/2023-17602/waiver-of-buy-america-requirements-for-de-minimis-costs-and-small-grants>.

FHWA interpretations, waivers, regulations, policy and guidance on Buy America:

<https://www.fhwa.dot.gov/construction/cqit/buyam.cfm>.

5. Electronic Bidding. The Department is not able to receive bids electronically. All bidding documents must be submitted by mail or hand delivered. Documents shall be submitted in a sealed envelope.
6. Material Sources. All borrow or fill material must come from pre-existing stockpiles, material reclaimed from maintained roadside ditches (provided the designed width or depth of the ditch is not increased), or commercially procured material from a source existing prior to the event. For any federal-funded project requiring the use of a non-commercial source or a commercial source that was not permitted to operate prior to the event (e.g. a new pit, agricultural fields, road ROWs, etc.) in whole or in part, regardless of cost, the Applicant must notify the Department prior to extracting material. The Department must review the source for compliance with all applicable federal environmental planning and historic preservation laws and executive orders prior to a subrecipient or their contractor commencing borrow extraction. Consultation and regulatory permitting may be required. Non-compliance with this requirement may jeopardize receipt of federal funding. Documentation of borrow sources utilized is required at closeout.
7. Cultural and Archaeological Survey for Material Sources. All material sources associated with this project must conform to AS 41.35.070 and have documented survey showing no adverse effects to historic, prehistoric, or archaeological resources. A list of qualified consultants approved to perform cultural/archaeological surveys can be found at: <http://dnr.alaska.gov/parks/oha/grant/contractorlistcurrent.pdf>.
8. Contract Price Adjustment(s). The Department will not provide cost escalation or de-escalation price adjustment for this contract, except for specific items described in the bid package at the time of bid opening.



STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

REQUIRED DOCUMENTS

Federal-Aid Contracts (FHWA)

REQUIRED FOR BID. Bids will not be considered if the following documents are not completely filled out and submitted at the time of bidding:

1. **Bid Forms**
 - a. **Bid Cover Sheet**
 - b. **Bid Schedule**
 - c. **Bid Attachments (as applicable)**
 - d. **Addenda Acknowledgement**
2. **Bid Security**

REQUIRED FOR BID MODIFICATIONS. Any bid revisions must be submitted by the bidder prior to bid opening. Use the following form to modify Manual (paper) bids:

3. **Bid Modification (Form 25D-16)**
-

REQUIRED AFTER NOTICE OF APPARENT LOW BIDDER. The apparent low bidder is required to complete and submit the following documents within 5 working days after receipt of written notification:

1. **Subcontractor List (Form 25D-5)**
 2. **Summary of Good Faith Effort Documentation (Form 25A-332A), and Contact Reports (Form 25A-321A)**
 3. **DBE Utilization Report (Form 25A-325C)**
 4. **Prime Contractor's Written DBE Commitment (Form 25A-326) for each DBE to be used on the project.**
-

REQUIRED FOR AWARD. In order to be awarded the contract, the successful bidder must completely fill out and submit the following documents within the time specified in the intent to award letter:

1. **Construction Contract (Form 25D-10H)**
2. **Payment Bond (Form 25D-12)**
3. **Performance Bond (Form 25D-13)**
4. **Contractor's Questionnaire (25D-8)**
5. **Certificate of Insurance (from carrier)**
6. **EEO-1 Certification (Form 25A-304)**
7. **Training Utilization Report (Form 25A-311), and/or DOT&PF Training Program Request (Form 25A-310), if required**
8. **Material Origin Certificate (Form 25D-60)**
9. **Bidder Registration (Form 25D-6) Bidders must register annually with the Civil Rights Office in order to be eligible for award.**



STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

FEDERAL EEO BID CONDITIONS

STANDARD FEDERAL EQUAL EMPLOYMENT OPPORTUNITY CONSTRUCTION CONTRACT SPECIFICATIONS (EXECUTIVE ORDER 11246). FOR ALL NON-EXEMPT FEDERAL AND FEDERALLY-ASSISTED CONSTRUCTION CONTRACTS TO BE AWARDED IN THE STATE OF ALASKA

1. Definitions. As used in these specifications:
 - a. “**Covered area**” means the geographical area described in the solicitation from which this contract resulted;
 - b. “**Director**” means Director, Office of Federal Contract Compliance Programs (OFCCP), United States Department of Labor (DOL), or any persons to whom the Director delegates authority;
 - c. “**Employer**” identification number” means the Federal Social Security number used on the Employer’s Quarterly Federal Tax Return, U.S. Treasury Department Form 941.
 - d. “**Minority**” includes:
 - (1) Black (all persons having origins in any of the Black African racial groups not of Hispanic origin);
 - (2) Hispanic (all persons of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish culture or origin, regardless of race);
 - (3) Asian and Pacific Islander (all persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands); and
 - (4) American Indian or Alaska Native (all persons having origins in any of the original peoples of North America and maintaining identifiable tribal affiliations through membership and participation or community identification).
2. Whenever the Contractor, or any subcontractor at any tier, subcontracts a portion of the work involving any construction trade, it shall physically include in each subcontract in excess of \$10,000 the provisions of these specifications and the Notice which contains the applicable goals for minority and female participation and which is set forth in the solicitations from which this contract resulted.
3. If the Contractor is participating (pursuant to 41 CFR 60-4.5) in a Hometown Plan approved by the DOL in the covered area, either individually or through an association, its affirmative action obligations on all work in the Plan area (including goals and timetables) shall be in accordance with that Plan for those trades that have unions participating in the Plan. Contractors must be able to demonstrate their participation in and compliance with the provisions of any such Hometown Plan. Each Contractor or subcontractor participating in an approved Plan is individually required to comply with its obligations under the EEO clause, and to make good faith effort to achieve each goal under the Plan in each trade in which it has employees. The overall good faith performance by other Contractors or subcontractors toward a goal in an approved Plan does not excuse any covered Contractor’s or subcontractor’s failure to make good faith efforts to achieve the Plan goals and timetables.
4. The Contractor shall implement the specific affirmative action standards provided in paragraphs 7(a) through 7(p) of these specifications. The goals set forth in the solicitation from which this contract resulted are expressed as percentages of the total hours of employment and training of minority and female utilization the Contractor should reasonably be able to achieve in each construction trade in which it has employees in the covered area. The Contractor is expected to make substantially uniform progress toward its goals in each craft during the period specified.

Covered construction contractors performing construction work in geographical areas where they do not have a federal or federally-assisted construction contract shall apply the minority and female goals established for the geographical area where the work is being performed. Goals are published periodically in the Federal Register in notice form, and such notices may be obtained from any OFCCP office or from federal procurement contracting officers.

5. Neither the provisions of any collective bargaining agreement, nor the failure by a union with whom the Contractor has a collective bargaining agreement, to refer either minorities or women shall excuse the Contractor's obligations under these specifications, Executive Order 11246, or the regulations promulgated pursuant thereto.
6. In order for the non-working training hours of apprentices and trainees to be counted in meeting the goals, such apprentices and trainees must be employed by the Contractor during the training period of an approved training program and the Contractor must have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities.
7. The Contractor shall take specific affirmative actions to ensure equal employment opportunity. The evaluation of the Contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its actions. The Contractor shall document these efforts fully, and shall implement affirmative action steps at least as extensive as the following:
 - a. Ensure and maintain a working environment free of harassment, intimidation, and coercion at all sites, and in all facilities at which the Contractor's employees are assigned to work. The Contractor, where possible, will assign two or more women to each construction project. The Contractor shall specifically ensure that all foremen, superintendents, and other on-site supervisory personnel are aware of and carry out the Contractor's obligations to maintain such a working environment, with specific attention to minority or female individuals working at such sites or in such facilities.
 - b. Establish and maintain a current list of minority and female recruitment sources, provide written notification to minority and female recruitment sources and to community organizations when the Contractor or its unions have employment opportunities available, and maintain a record of the organizations' responses.
 - c. Maintain a current file of the names, addresses and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a union, a recruitment source or community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the Contractor by the union or, if referred, not employed by the Contractor, this shall be documented in the file with the reason therefor, along with whatever additional actions the Contractor may have taken.
 - d. Provide immediate written notification to the Director when the union or unions with which the Contractor has a collective bargaining agreement has not referred to the Contractor a minority person or woman sent by the Contractor, or when the Contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.
 - e. Develop on-the-job training opportunities and/or participate in training programs for the area which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the Contractor's employment needs, especially those programs funded or approved by the DOL. The Contractor shall provide notice of these programs to the sources compiled under 7(b) above.
 - f. Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligations; by including it in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc.; by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.

- g. Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination or other employment decisions including specific review of these items with on-site supervisory personnel such as Superintendent, general foreman, etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and dispositions of the subject matter.
 - h. Disseminate the Contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing the Contractor's EEO policy with other Contractors and Subcontractors with whom the Contractor does or anticipates doing business.
 - i. Direct its recruitment efforts, both oral and written, to minority, female and community organizations, to schools with minority and female students and to minority and female recruitment and training organizations serving the Contractor's recruitment area and employment needs. Not later than one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment source, the Contractor shall send written notification to organizations such as the above, describing the openings, screening procedures, and tests to be used in the selection process.
 - j. Encourage present minority and female employees to recruit other minority persons and women and, where reasonable, provide after school, summer and vacation employment to minority and female youth both on the site and in other areas of a Contractor's workforce.
 - k. Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR Part 60-3.
 - l. Conduct, at least annually, an inventory and evaluation at least of all minority and female personnel for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.
 - m. Ensure that seniority practices, job classifications, work assignments and other personnel practices do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the Contractor's obligations under these specifications are being carried out.
 - n. Ensure that all facilities and company activities are nonsegregated except that separate or single-used toilet, necessary changing facilities and necessary sleeping facilities shall be provided to assure privacy between the sexes.
 - o. Document and maintain a record of all solicitations of offers for subcontractors from minority and female construction contractors and suppliers, including circulations of solicitations to minority and female contractor associations and other business associations.
 - p. Conduct a review, at least annually, of all supervisors' adherence to and performance under the Contractor's EEO policies and affirmative action obligations.
8. Contractors are encouraged to participate in voluntary associations which assist in fulfilling one or more of their affirmative action obligations 7(a) through 7(p). The efforts of a contractor association, joint contractor-union, contractor-community, or other similar group of which the Contractor is a member and participant, may be asserted as fulfilling any or more of its obligations under 7(a) through 7(p) of these specifications provided that the Contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensures that the concrete benefits of the program are reflected in the Contractor's minority and female work force participation, makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrates the effectiveness of actions taken on behalf of the Contractor. The obligation to comply, however, is the Contractor's and failure of such a group to fulfill an obligation shall not be a defense for the Contractor's noncompliance.

9. A single goal for minorities and a separate goal for women have been established. The Contractor, however, is required to provide equal employment opportunity and to take affirmative action for all minority groups, both male and female, and all women, both minority and non-minority. Consequently, the Contractor may be in violation of the Executive Order if a particular group is employed in a substantially disparate manner (for example, even though the Contractor has achieved its goals for women generally, the Contractor may be in violation of the Executive Order if a specific minority group of women is underutilized.)
10. The Contractor shall not use the goals and timetables or affirmative action standards to discriminate against any person because of race, color, religion, sex, or national origin.
11. The Contractor shall not enter into any subcontract with any person or firm debarred from government contracts pursuant to Executive Order 11246.
12. The Contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspension, termination and cancellation of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, and its implementing regulations, by the OFCCP. Any Contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246, as amended.
13. The Contractor, in fulfilling its obligations under these specifications, shall implement specific affirmative action steps, at least as extensive as those standards prescribed in paragraph 7 of these specifications, so as to achieve maximum results from its efforts to ensure equal employment opportunities. If the Contractor fails to comply with the requirements of the Executive Order, the implementing regulations or these specifications, the Director shall proceed in accordance with 41 CFR 60-4.8.
14. The Contractor shall designate a responsible official to monitor all employment related activity to ensure that the company EEO policy is being carried out, to submit reports relating to the provisions hereof as may be required by the Government and to keep records. Records shall at least include for each employee the name, address, telephone numbers, construction trade, union affiliation if any, employee identification number when assigned, social security number, race, sex, status (e.g., mechanic apprentice, trainees, helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and locations at which the work was performed. Records shall be maintained in an easily understandable and retrievable form; however, to the degree that the existing records satisfy this requirement, Contractors shall not be required to maintain separate records.
15. Nothing herein provided shall be construed as a limitation upon the application of other laws that establish different standards of compliance or upon the application of requirements for the hiring of local or other area residents (e.g., those under the Public Works Employment Act of 1977 and the Community Development Block Grant Programs).
16. The Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Opportunity Construction Contract Specifications" set forth herein.
17. The goals and timetables for minority and female participation, expressed in percentage terms for the Contractor's aggregate work force in each trade on all construction work in the covered area, are as set forth in item 20.

These goals as listed in item 20 are applicable to all the Contractor's construction work (whether or not it is federal or federally-assisted) performed in the covered area.

The Contractor's compliance with the Executive Order and the regulations in 41 CFR Part 60-4 shall be based on its implementation of the Equal Opportunity Clause, specific affirmative action obligations required by the specifications set forth in 41 CFR 60-4.3(a), and its efforts to meet the goals. If the Contractor performs construction work in a geographical area located outside of the covered area, it shall apply the goals established for such geographical area where the work is actually performed. With regard to this second area, the Contractor also is subject to the goals for both its federally and non-federally involved construction.

The hours on minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the Contractor shall make a good faith effort to employ minorities and women

evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the Contractor's goals shall be a violation of the contract, the Executive Order and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

18. The Contractor shall provide written notification to the Department, for all subcontracts documents as follows: the name, address and telephone number of subcontractors and their employer identification number; the estimated dollar amount of the subcontracts; estimated starting and completion dates of the subcontracts; and the geographical area in which the contract is to be performed.

This written notification shall be required for all construction subcontracts in excess of \$10,000 at any tier for construction work under the contract resulting from this project's solicitation.

19. As used in the Bid Notice, and in the contract resulting from this project's solicitation, the "covered area" is the State of Alaska.

20. Goal and Timetable

- a. The following goal and timetable for female utilization shall be included in all federal and federally-assisted construction contracts and subcontracts in excess of \$10,000. The goal is applicable to the Contractor's aggregate on-site construction work force whether or not part of that work force is performing work on a federal or federally assisted construction contract or subcontract.

ALASKA GOAL AND TIMETABLE FOR WOMEN*

<u>Timetable</u>	<u>Goal **</u>
Until Further Notice	6.9%

- b. The following goals and timetable for minority utilization shall be included in all federal or federally-assisted construction contracts and subcontracts in excess of \$10,000 to be performed in Alaska. The goals are applicable to the Contractor's aggregate on-site construction work force whether or not part of that work force is performing work on a federal or federally-assisted construction contract or subcontract.

ALASKA GOALS AND TIMETABLE FOR MINORITY UTILIZATION

<u>Timetable</u>	<u>Economic Area (EA)***</u>	<u>Goals **</u>
Until Further Notice	Anchorage SMSA Area	08.7%
	Remainder of State	15.1%

* The goal and timetable for women listed above applies to Alaska as well as nationwide.

** The Director, from time to time, shall issue goals and timetables for minority and female utilization that shall be based on appropriate work force, demographic or other relevant data and which shall cover construction projects, or construction contracts performed in specific geographical areas. The goals shall be applicable to each construction trade in a covered Contractor's or subcontractor's entire work force which is working in the area covered by the goals and timetables, shall be published as notices in the FEDERAL REGISTER, and shall be inserted by the contracting officers and applicants, as applicable, in the Notice required by 41 CFR 60-4.2. Covered construction contractors performing construction work in geographical areas where they do not have a federal or federally-assisted construction contract shall apply the minority and female goals established for the geographical area where the work is being performed.

*** Refer to the Standard Metropolitan Statistical Areas (SMSA) and Economic Areas (EA), Office of Management and Budget, 1975.



STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

SUBCONTRACTOR LIST

Antler Ridge Trailhead Facility Improvements, Project No. 91882-1
Project Name and Number

The apparent low bidder shall complete this form and submit it so as to be received by the Contracting Officer prior to the close of business on the fifth working day after receipt of written notice from the Department.

An apparent low bidder who fails to submit a completed Subcontractor List form within the time allowed will be declared non-responsible and may be required to forfeit the bid security.

Scope of work must be clearly defined. If an item of work is to be performed by more than one firm, indicate the portion or percent of work to be done by each.

Check as applicable: All Work on the above-referenced project will be accomplished without subcontracts

Or

List all first tier Subcontractors as follows:

FIRM NAME, ADDRESS, PHONE NO.	AK BUSINESS LICENSE NO., CONTRACTOR'S REGISTRATION NO.	SCOPE OF WORK TO BE PERFORMED

CONTINUE SUBCONTRACTOR INFORMATION ON REVERSE

For projects with federal-aid funding, I hereby certify Alaska Business Licenses and Contractor Registrations will be valid for all subcontractors prior to award of the subcontract. For projects without federal-aid funding (State funding only), I hereby certify the listed Alaska Business Licenses and Contractor Registrations were valid at the time bids were opened for this project.

Signature of Authorized Company Representative

Title

Company Name

Company Address (Street or PO Box, City, State, Zip)

Date

Phone Number

2. What percent of the total value of this contract do you intend to subcontract? _____ %

3. Do you propose to purchase any equipment for use on this project?
 No Yes If YES, describe type, quantity, and approximate cost:

4. Do you propose to rent any equipment for this work?
 No Yes If YES, describe type and quantity:

5. Is your bid based on firm offers for all materials necessary for this project?
 Yes No If NO, please explain:

C. EXPERIENCE

1. Have you had previous construction contracts or subcontracts with the State of Alaska?
 Yes No

Describe the most recent or current contract, its completion date, and scope of work:

2. List, as an attachment to this questionnaire, other construction projects you have completed, the dates of completion, scope of work, and total contract amount for each project completed in the past 12 months.

I hereby certify that the above statements are true and complete.

Name of Contractor Name and Title of Person Signing

Signature Date



STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

BID FORM

for

Antler Ridge Trailhead Facility Improvements, Project No. 91882-1
Project Name and Number

by

Company Name

Company Address (Street or PO Box, City, State, Zip)

**TO THE CONTRACTING OFFICER,
DEPARTMENT OF NATURAL RESOURCES:**

In compliance with your Invitation to Bid dated April 1st, 2026, the Undersigned proposes to furnish and deliver all the materials and do all the work and labor required in the construction of the above-referenced Project, located at or near Healy, Alaska, according to the plans and specifications and for the amount and prices named herein as indicated on the Bid Schedule consisting of 2 sheets, which is made a part of this Bid.

The Undersigned declares that he has carefully examined the contract requirements and that he has made a personal examination of the site of the work; that he understands that the quantities, where such are specified in the Bid Schedule or on the plans for this project, are approximate only and subject to increase or decrease, and that he is willing to perform increased or decreased quantities of work at unit prices bid under the conditions set forth in the Contract Documents.

The Undersigned hereby agrees to execute the said contract and bonds within fifteen calendar days, or such further time as may be allowed in writing by the Contracting Officer, after receiving notification of the acceptance of this bid, and it is hereby mutually understood and agreed that in case the Undersigned does not, the accompanying bid guarantee shall be forfeited to the State of Alaska, Department of Transportation and Public Facilities as liquidated damages, and the said Contracting officer may proceed to award the contract to others.

The Undersigned agrees to commence the work within 10 calendar days, and to complete the work within N/A calendar days, after the effective date of the Notice to Proceed, or by November 15th, 2026, unless extended in writing by the Contracting Officer.

The Undersigned proposes to furnish Payment Bond in the amount of **100%** (of the contract) and Performance Bond in the amount of **100%** (of the contract), as surety conditioned for the full, complete and faithful performance of this contract.

The Undersigned acknowledges receipt of the following addenda to the drawings and/or specifications (give number and date of each).

Addenda Number	Date Issued	Addenda Number	Date Issued	Addenda Number	Date Issued

NON-COLLUSION DECLARATION

The Undersigned declares, under penalty of perjury under the laws of the United States, that neither he nor the firm, association, or corporation of which he is a member, has, either directly or indirectly, entered into any agreement, participated in any collusion, or otherwise taken any action in restraint of free competitive bidding in connection with this bid.

The Undersigned has read the foregoing and hereby agrees to the conditions stated therein by affixing his signature below:

Signature of Authorized Company Representative

Typed Name and Title

()

Phone Number

()

Fax Number

Email Address



STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

BID SCHEDULE

Project Name: Antler Ridge Trailhead Facility Improvements

Project Number: 91882-1

Before preparing this bid schedule, read carefully, Section 102 of the 2020 edition of the Standard Specifications for Highway Construction, and the following:

The Bidder shall insert, as called for, a unit price or lump sum price in figures opposite each pay item for which an estimated quantity appears in the bid schedule. A unit price or lump sum price is not to be entered or tendered for any pay item not appearing in the bid schedule. The estimated quantity of work for payment on a lump sum basis will be "All Required" (All Req'd) and as further specified in the contract.

Whenever a Contingent Sum is shown for any item in this schedule, such amount shall govern and be included in the bid total.

Conditioned or qualified bids will be considered non-responsive.

Notice: Contract award will be made on the basis of the total adjusted basic bid.

The bidder shall insert a unit bid price for each pay item listed below. Type or print legibly.

Pay Item Number	Pay Item Description	Pay Unit	Quantity	Unit Bid Price	Amount Bid
***** BASIC BID *****					
622.2016.0000	Interpretive Kiosk, Type B	EACH	1	\$	\$
622.2020.000A	Trail Sign, Type A	EACH	3	\$	\$
622.2020.000B	Trail Sign, Type B	EACH	4	\$	\$
622.2020.000C	Trail Sign, Type C	EACH	1	\$	\$
622.2040.0000	Trail Prescription	L.S.	All Req'd	\$ [LUMP SUM]	\$
622.2040.0002	Trail Construction, Class 2	STA	80	\$	\$
622.2040.0003	Trail Construction, Class 3	STA	50	\$	\$
622.2040.0005	Trail Construction, Class 5	STA	35	\$	\$
640.0001.0000	Mobilization and Demobilization	L.S.	All Req'd	\$ [LUMP SUM]	\$

Pay Item Number	Pay Item Description	Pay Unit	Quantity	Unit Bid Price	Amount Bid
***** CONTINUE BASIC BID *****					
641.0001.0000	Erosion, Sediment, and Pollution Control Administration	L.S.	All Req'd	\$ [LUMP SUM]	\$
641.0005.0000	Temporary Erosion, Sediment, and Pollution Control by Directive	C.S.	All Req'd	\$ 5,000.00	\$ 5,000.00
641.0006.0000	ESCP Price Adjustment	C.S.	All Req'd	\$ 0.00	\$ 0.00
642.0000.0000	As-Built Survey	L.S.	All Req'd	\$ [LUMP SUM]	\$
643.0000.0000	Traffic Maintenance	L.S.	All Req'd	\$ [LUMP SUM]	\$
647.0000.0000	Backhoe, 4WD, 1 CY Bucket, 75-HP Minimum	HOUR	16	\$	\$
TOTAL BASIC BID					\$

No: _____ Expires _____
Alaska Business License

No: _____ Expires _____
Alaska Contractor's License



STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

CONSTRUCTION CONTRACT

Antler Ridge Trailhead Facility Improvements, Project No. 91882-1

Project Name and Number

This CONTRACT, between the STATE OF ALASKA, DEPARTMENT OF NATURAL RESOURCES, herein called the Department, acting by and through its Contracting Officer, and

Company Name

Company Address (Street or PO Box, City, State, Zip)

a/an Individual Partnership Joint Venture Sole Proprietorship Corporation incorporated under the laws of the State of _____, its successors and assigns, herein called the Contractor, is effective the date of the signature of the Contracting Officer on this document.

WITNESSETH: That the Contractor, for and in consideration of the payment or payments herein specified and agreed to by the Department, hereby covenants and agrees to furnish and deliver all the materials and to do and perform all the work and labor required in the construction of the above-referenced project at the prices bid by the Contractor for the respective estimated quantities aggregating approximately the sum of

_____ Dollars (\$ _____), and such other items as are mentioned in the original Bid, which Bid and prices named, together with the Contract Documents are made a part of this Contract and accepted as such. *The Alaska Standard Specifications for Highway Construction, 2020 Edition* is incorporated by reference and made a part hereof as if set forth in full. *The Alaska Standard Specifications for Highway Construction* can be downloaded at <http://www.dot.state.ak.us/stwddes/dcsspecs/index.shtml>.

It is distinctly understood and agreed that no claim for additional work or materials, done or furnished by the Contractor and not specifically herein provided for, will be allowed by the Department, nor shall the Contractor do any work or furnish any material not covered by this Contract, unless such work is ordered in writing by the Department. In no event shall the Department be liable for any materials furnished or used, or for any work or labor done, unless the materials, work, or labor are required by the Contract or on written order furnished by the Department. Any such work or materials which may be done or furnished by the Contractor without written order first being given shall be at the Contractor's own risk, cost, and expense and the Contractor hereby covenants and agrees to make no claim for compensation for work or materials done or furnished without such written order.

The Contractor further covenants and agrees that all materials shall be furnished and delivered and all labor shall be done and performed, in every respect, to the satisfaction of the Department, on or before: _____ or within _____ calendar days. It is expressly understood and agreed that in case of the failure on the part of the Contractor, for any reason, except with the written consent of the Department, to complete the furnishing and delivery of materials and the doing and performance of the work before the aforesaid date, the Department shall have the right to deduct from any money due or which may become due the Contractor, or if no money shall be due, the Department shall have the right to recover _____ dollars (\$ _____) per day for each calendar day elapsing between the time stipulated for the completion and the actual date of completion in accordance with the terms hereof; such deduction to be made, or sum to be recovered, not as a penalty but as liquidated damages.

The bonds given by the Contractor in the sum of \$_____ Payment Bond, and \$_____ Performance Bond, to secure the proper compliance with the terms and provisions of this Contract, are submitted herewith and made a part hereof.

IN WITNESS WHEREOF, the parties hereto have executed this Contract and hereby agree to its terms and conditions.

CONTRACTOR

Company Name

Signature of Authorized Company Representative

Typed Name and Title

Date

(Corporate Seal)

**STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES**

Signature of Contracting Officer

Typed Name

Date



STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

PAYMENT BOND

Bond No. _____

For

Antler Ridge Trailhead Facility Improvements, Project No. 91882-1

Project Name and Number

KNOW ALL WHO SHALL SEE THESE PRESENTS:

That _____
of _____ as Principal,
and _____
of _____ as Surety,
firmly bound and held unto the State of Alaska in the penal sum of _____ Dollars

(\$ _____) good and lawful money of the United States of America for the payment whereof, well and truly to be paid to the State of Alaska, we bind ourselves, our heirs, successors, executors, administrators, and assigns, jointly and severally, firmly by these presents.

WHEREAS, the said Principal has entered into a written contract with said State of Alaska, on the _____ of _____ A.D., 20____, for construction of the above-referenced project, said work to be done according to the terms of said contract.

Now, THEREFORE, the conditions of the foregoing obligation are such that if the said Principal shall comply with all requirements of law and pay, as they become due, all just claims for labor performed and materials and supplies furnished upon or for the work under said contract, whether said labor be performed and said materials and supplies be furnished under the original contract, any subcontract, or any and all duly authorized modifications thereto, then these presents shall become null and void; otherwise they shall remain in full force and effect.

IN WITNESS WHEREOF, we have hereunto set our hands and seals at _____, _____ this _____ day of _____ A.D., 20____.

Principal: _____

Address: _____

By: _____

Contact Name: _____

Phone: () _____

Surety: _____

Address: _____

By: _____

Contact Name: _____

Phone: () _____

The offered bond has been checked for adequacy under the applicable statutes and regulations:

Alaska Department of Natural Resources Authorized Representative

Date

See Instructions on Reverse

INSTRUCTIONS

1. This form, for the protection of persons supplying labor and material, shall be used whenever a payment bond is required. There shall be no deviation from this form without approval from the Contracting Officer.
2. The full legal name, business address, phone number, and point of contact of the Principal and Surety shall be typed on the face of the form. Where more than a single surety is involved, a separate form shall be executed for each surety.
3. The penal amount of the bond, or in the case of more than one surety the amount of obligation, shall be typed in words and in figures.
4. Where individual sureties are involved, a completed Affidavit of Individual Surety shall accompany the bond. Such forms are available upon request from the Contracting Officer.
5. The bond shall be signed by authorized persons. Where such persons are signing in a representative capacity (e.g., an attorney-in-fact), but is not a member of the firm, partnership, or joint venture, or an officer of the corporation involved, evidence of authority must be furnished.



STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

PERFORMANCE BOND

Bond No. _____

For

Antler Ridge Trailhead Facility Improvements, Project No. 91882-1

Project Name and Number

KNOW ALL WHO SHALL SEE THESE PRESENTS:

That _____
of _____ as Principal,
and _____
of _____ as Surety,
firmly bound and held unto the State of Alaska in the penal sum of _____ Dollars

(\$ _____) good and lawful money of the United States of America for the payment whereof, well and truly to be paid to the State of Alaska, we bind ourselves, our heirs, successors, executors, administrators, and assigns, jointly and severally, firmly by these presents.

WHEREAS, the said Principal has entered into a written contract with said State of Alaska, on the _____ of _____ A.D., 20____, for construction of the above-named project, said work to be done according to the terms of said contract.

Now, THEREFORE, the conditions of the foregoing obligation are such that if the said Principal shall well and truly perform and complete all obligations and work under said contract and if the Principal shall reimburse upon demand of the Department of Transportation and Public Facilities any sums paid him which exceed the final payment determined to be due upon completion of the project, then these presents shall become null and void; otherwise they shall remain in full force and effect.

IN WITNESS WHEREOF, we have hereunto set our hands and seals at _____, this _____ day of _____ A.D., 20____.

Principal: _____

Address: _____

By: _____

Contact Name: _____

Phone: () _____

Surety: _____

Address: _____

By: _____

Contact Name: _____

Phone: () _____

The offered bond has been checked for adequacy under the applicable statutes and regulations:

Alaska Department of Natural Resources Authorized Representative

Date

See Instructions on Reverse

INSTRUCTIONS

1. This form shall be used whenever a performance bond is required. There shall be no deviation from this form without approval from the Contracting Officer.
2. The full legal name, business address, phone number, and point of contact of the Principal and Surety shall be typed on the face of the form. Where more than a single surety is involved, a separate form shall be executed for each surety.
3. The penal amount of the bond, or in the case of more than one surety the amount of obligation, shall be typed in words and in figures.
4. Where individual sureties are involved, a completed Affidavit of Individual Surety shall accompany the bond. Such forms are available upon request from the Contracting Officer.
5. The bond shall be signed by authorized persons. Where such person is signing in a representative capacity (e.g., an attorney-in-fact), but is not a member of the firm, partnership, or joint venture, or an officer of the corporation involved, evidence of authority must be furnished.



STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

BID BOND

For

Antler Ridge Trailhead Facility Improvements, Project No. 91882-1

Project Name and Number

DATE BOND EXECUTED: _____

PRINCIPAL (Legal name and business address):

TYPE OF ORGANIZATION:

	<input type="checkbox"/> Individual <input type="checkbox"/> Partnership <input type="checkbox"/> Joint Venture <input type="checkbox"/> Corporation
	STATE OF INCORPORATION: _____

SURETY(IES) (Name and business address):

A.	B.	C.
PENAL SUM OF BOND: _____		DATE OF BID: _____

We, the PRINCIPAL and SURETY above named, are held and firmly bound to the State (State of Alaska), in the penal sum of the amount stated above, for the payment of which sum will be made, we bind ourselves and our legal representatives and successors, jointly and severally, by this instrument.

THE CONDITION OF THE FOREGOING OBLIGATION is that the Principal has submitted the accompanying bid in writing, date as shown above, on the above-referenced Project in accordance with contract documents filed in the office of the Contracting Officer, and under the Invitation for Bids therefor, and is required to furnish a bond in the amount stated above.

If the Principal's bid is accepted and he is offered the proposed contract for award, and if the Principal fails to enter into the contract, then the obligation to the State created by this bond shall be in full force and effect.

If the Principal enters into the contract, then the foregoing obligation is null and void.

PRINCIPAL

Signature(s)	1.	2.	3.
Name(s) & Title(s) (Typed)	1.	2.	3.

Corporate Seal

See Instructions on Reverse

CORPORATE SURETY(IES)

Surety A	Name of Corporation	State of Incorporation	Liability Limit \$
Signature(s)	1.	2.	Corporate Seal
Name(s) & Titles (Typed)	1.	2.	

Surety B	Name of Corporation	State of Incorporation	Liability Limit \$
Signature(s)	1.	2.	Corporate Seal
Name(s) & Titles (Typed)	1.	2.	

Surety C	Name of Corporation	State of Incorporation	Liability Limit \$
Signature(s)	1.	2.	Corporate Seal
Name(s) & Titles (Typed)	1.	2.	

INSTRUCTIONS

1. This form shall be used whenever a bid bond is submitted.
2. Insert the full legal name and business address of the Principal in the space designated. If the Principal is a partnership or joint venture, the names of all principal parties must be included (e.g., "Smith Construction, Inc. and Jones Contracting, Inc. DBA Smith/Jones Builders, a joint venture"). If the Principal is a corporation, the name of the state in which incorporated shall be inserted in the space provided.
3. Insert the full legal name and business address of the Surety in the space designated. The Surety on the bond may be any corporation or partnership authorized to do business in Alaska as an insurer under AS 21.09. Individual sureties will not be accepted.
4. The penal amount of the bond may be shown either as an amount (in words and figures) or as a percent of the contract bid price (a not-to-exceed amount may be included).
5. The scheduled bid opening date shall be entered in the space marked Date of Bid.
6. The bond shall be executed by authorized representatives of the Principal and Surety. Corporations executing the bond shall also affix their corporate seal.
7. Any person signing in a representative capacity (e.g., an attorney-in-fact) must furnish evidence of authority if that representative is not a member of the firm, partnership, or joint venture, or an officer of the corporation involved.
8. The states of incorporation and the limits of liability of each surety shall be indicated in the spaces provided.
9. The date that bond is executed must not be later than the bid opening date.



STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

EEO-1 CERTIFICATION
Federal-Aid Contracts

Antler Ridge Trailhead Facility Improvements, Project No. 91882-1

Project Name and Number

This certification is required by the Equal Employment Opportunity Regulations of the Secretary of Labor [41 CFR 60-1.7 (b) (1)] and must be completed by the successful Bidder and each proposed Subcontractor participating in this contract.

PLEASE CHECK APPROPRIATE BOXES

The Bidder Proposed Subcontractor hereby CERTIFIES:

PART A Bidders and proposed Subcontractors with 50 or more year-round employees and a federal contract amounting to \$50,000 or more are required to submit one federal Standard Report Form 100 during each year that the two conditions exist (50 employees and a \$50,000 federal contract).

The company named below (Part C) is exempt from the requirements of submitting the Standard Report Form 100 this year.

NO (go to PART B) YES (go to PART C)

Instructions and blank Standard Report Form 100's may be obtained from a local U.S. Department of Labor office, or by writing to:

The Joint Reporting Committee
P.O. Box 779
Norfolk, Virginia 23501

Telephone number: (757) 461-1213

PART B The company named below has submitted the Standard Report Form 100 this year.

NO YES

Note: Bidders and proposed Subcontractors who have not filed the required Standard Report Form 100 and are not exempt from filing requirements will not be awarded this contract or subcontract until Form 100 has been filed for the current year ending June 30.

PART C

Signature of Authorized Company Representative	Title
Company Name	Company Address (Street or PO Box, City, State, Zip)
Date	Phone Number

SPECIAL PROVISIONS

to the

STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
2020 STANDARD SPECIFICATIONS for HIGHWAY CONSTRUCTION

ANTLER RIDGE TRAILHEAD

FACILITY IMPROVEMENTS

PROJECT NUMBER 91882-1

**SECTION 101
DEFINITIONS AND TERMS**

101-1.03 DEFINITIONS.

DEPARTMENT. Replace with the following: The Alaska Department of Natural Resources, Division of Parks and Outdoor Recreation. (01/01/01)PARKS-Special Provision

ROADWAY. Replace with the following: The portion of a highway or facility including shoulders within the limits of construction. (03/01/24)PARKS-Special Provision

**SECTION 102
BIDDING REQUIREMENTS AND CONDITIONS**

102-1.04 EXAMINATION OF PLANS, SPECIFICATIONS, SPECIAL PROVISIONS, AND WORK SITE. Replace the second paragraph with the following: Material Reports and/or Soils Investigation Reports are not available for this project. (01/01/01)PARKS-Special Provision

**SECTION 105
CONTROL OF WORK**

105-1.02 PLANS AND WORKING DRAWINGS. Add the following to the first paragraph:
Full size plan sheets are 11” by 17”. Plans are not available in CAD digital format.
(01/01/01)PARKS-Special Provision

105-1.13 MAINTENANCE DURING CONSTRUCTION.

Replace the first sentence of the first paragraph with the following: The Contractor shall maintain the entire area located within the project limits from the date construction begins until the Contractor receives a letter of substantial completion. (03/09/17) PARKS-Special Provision

105-1.15 PROJECT COMPLETION.

Replace the 1st sentence in the 3rd paragraph with the following:

When all physical work and cleanup provided for under the Contract is found to be complete, except for work specified for Period of Establishment, the Engineer will issue a letter of project completion.

CR105.6-23.0601

**SECTION 106
CONTROL OF MATERIALS**

106-1.01 SOURCE OF SUPPLY AND QUALITY REQUIREMENTS.

Add the following:

PROHIBITION ON CERTAIN TELECOMMUNICATION AND VIDEO SURVEILLANCE SERVICES OR EQUIPMENT. On projects using federal funds, the Contractor shall comply with the requirements of 2 CFR 200.216, Prohibition on certain telecommunication and video surveillance services or equipment, including any future amendments thereto that are applicable to the project.

By submitting a bid or by execution of the contract, the Contractor certifies that it has not entered into a contract nor extended or renewed a contract to procure or obtain equipment, services, or systems that uses covered telecommunications equipment or services as a substantial or essential component of any system, or as critical technology as part of any system produced by:

- Huawei Technologies Company or ZTE Corporation (or any subsidiary or affiliate of such entities).
- Hytera Communications Corporation, Hangzhou Hikvision Digital Technology Company, or Dahua Technology Company (or any subsidiary or affiliate of such entities).
- Any entity that the Secretary of Defense, in consultation with the Director of the National Intelligence or the Director of the Federal Bureau of Investigation, reasonably believes to be an entity owned or controlled by, or otherwise connected to, the government of a covered foreign country.

The Contractor further certifies that it has complied with the requirements of 2 CFR 200.216 and that it will continue to do so throughout the term of the Contract.

HSM20.20-21.1231

Replace the BUY AMERICA PROVISION with the following:

BUY AMERICA PROVISION. On projects using federal funds the Contractor shall ensure all iron, steel, manufactured products, and construction materials incorporated into the project are produced in the United States as required by 2 CFR Part 184 Buy America Preferences for Infrastructure Projects and 23 CFR §635.410, Buy America requirements. The Contractor shall submit a completed Non-Domestic Minimal Use and De Minimis Register, Form 25D-60, prior to award of the contract. When the Contractor becomes aware of a change from or error in a previously submitted Form 25D-60, the Contractor shall submit an updated Form 25D-60.

SPECIAL PROVISIONS

Antler Ridge Trailhead
Facility Improvements
Project No. 91882-1

The Contractor shall submit a certificate of compliance according to Subsection 106-1.05 for each item listed on the Material Certification List. The Engineer may authorize the use of materials based on a certificate of compliance and Form 25D-62 Certificate of Buy America Act Compliance. Materials incorporated into the project on the basis of a certificate of compliance may be tested at any time, whether in place or not, and if they do not conform to Contract specifications, they may be rejected and ordered removed under the Subsection 105-1.11.

Manufactured products that are not predominantly steel or iron, or a combination of both, or construction materials are not subject to Buy America provisions. Declare manufactured products on Form 25D-62 regardless of their exemption.

Non-domestic products in excess of the minimal use and/or the de minimis amounts shall be replaced at no expense to the State. Failure to comply may also subject the Contractor to default and debarment.

The supplier certifying Form 25D-62 may be the manufacturer, fabricator, vendor, or supplier; provided they have sufficient control and knowledge of the manufacturing process to accept responsibility and certify full and complete conformance with 23 CFR §635.410 and 2 CFR Part 184. The Prime Contractor shall also certify Form 25D-62. Provide additional certifications and backup documentation to signed Form 25D-62 when required by the Engineer. False statements may result in criminal penalties prescribed under AS 36.30.687 and Title 18 US Code Section 1001 and 1020.

The United States, Mexico, Canada Agreement (USMCA) does not apply to the Buy America requirement.

Buy America does not apply to construction materials, steel products, and iron products, brought temporarily to the construction site and removed at or before the completion of the project. Further, it does not apply to construction materials, steel products, and iron products which remain in place at the Contractor's convenience. Buy America does not apply to iron ore, pig iron, and processed, pelletized and reduced iron ore.

The following materials are exempt from Build America, Buy America requirements per Section 70917(c) of P. L. 117-58:

1. cement and cementitious materials
2. aggregates such as stone, sand, or gravel
3. aggregate binding agents or additives

De Minimis amount:

Small amounts of non-domestic construction materials, are allowed provided the total value of the non-domestic products is no more than the lesser of \$1,000,000 or 5% of total material costs for the project including freight to the project location.

SPECIAL PROVISIONS

Antler Ridge Trailhead
Facility Improvements
Project No. 91882-1

The total material costs of the project include (Form 25D-60):

1. Predominantly Iron and Steel products
2. Construction Materials
3. Manufactured Products

Do not include the cost of materials exempted per Section 70917(c) of P. L. 117-58, earth materials, processed aggregates, asphalt, concrete, fuel, lubricant, equipment repair parts, etc. in the total material costs of the project.

PREDOMINANTLY STEEL OR IRON PRODUCTS. Products and materials where the cost of the iron and steel, or a combination of both, exceeds 50 percent of the total cost of all its components. The cost of iron and steel is the cost of the iron or steel mill products (such as bar, billet, slab, wire, plate, or sheet), castings, or forgings utilized in the manufacture of the product, or a good faith estimate of the cost of iron or steel components.

To be classified as domestic, all manufacturing processes, from the initial melting stage through the application of coatings, occurred in the United States.

Iron and Steel minimal use:

All predominately steel and iron, or a combination of both, products incorporated into the work, shall be manufactured in the United States except that minor amounts of steel and iron products of foreign manufacture may be used, provided the aggregate cost of such does not exceed one tenth of one percent (0.001) of the total contract amount, or \$2,500, whichever is greater. For the purposes of this paragraph, the cost is the value of the products as they are delivered to the project, including shipping.

CONSTRUCTION MATERIALS. The following list contains the categories of construction materials, and the requirements for domestic origin. Construction materials are an article, material, or supply that is:

1. **Non-ferrous metals.** All manufacturing processes, from initial smelting or melting through final shaping, coating, and assembly, occurred in the United States.
2. **Plastic and Polymer-based products.** All manufacturing processes, from initial combination of constituent plastic or polymer-based inputs, or, where applicable, constituent composite materials, until the item is in its final form, occurred in the United States.
3. **Glass.** All manufacturing processes, from initial batching and melting of raw materials through annealing, cooling, and cutting, occurred in the United States.
4. **Fiber Optic Cable.** All manufacturing processes, from the initial ribboning (if applicable), through buffering, fiber stranding and jacketing, occurred in the United States.

SPECIAL PROVISIONS

Antler Ridge Trailhead
Facility Improvements
Project No. 91882-1

States. All manufacturing processes also include the standards for glass and optical fiber, but not for non-ferrous metals, plastic and polymer-based products, or any others.

5. **Optical Fiber.** All manufacturing processes, from the initial preform fabrication stage through the completion of the draw, occurred in the United States.
6. **Lumber.** All manufacturing processes, from initial debarking through treatment and planing, occurred in the United States.
7. **Drywall.** All manufacturing processes, from initial blending of mined or synthetic gypsum plaster and additives through cutting and drying of sandwiched panels, occurred in the United States.
8. **Engineered Wood.** All manufacturing processes from the initial combination of constituent materials until the wood product is in its final form, occurred in the United States.

If one construction material contains as inputs other construction materials, it remains classified as a construction material for the purposes of this section. Minor additions of articles, materials, supplies, or binding agents to a construction material do not change the categorization of the construction material.

MANUFACTURED PRODUCTS. Articles, materials, or supplies that have been processed into a specific form and shape or combined with other articles, materials, or supplies to create a product with different properties than the individual articles, materials, or supplies.

If an item is classified as an iron or steel product, a construction material, or an exempted material per Section 70917(c) of P. L. 117-58 then it is not a manufactured product. An article, material, or supply classified as a manufactured product may include components that are construction materials, iron or steel products, or an exempted material per Section 70917(c) of P. L. 117-58

HSP20.7A-23.1114

106-1.02 MATERIAL SOURCES.

Add the following under 5. Rights, Permits and Plan Approvals for Material Sources.

- c. Provide proof to the Engineer that all material sources associated with this project have been surveyed for historical and cultural resources by a qualified surveyor and approved by the Alaska Office of History and Archaeology (OHA) or State Historic Preservation Officer (SHPO).

(01/29/21)PARKS-Special Provision

SPECIAL PROVISIONS
Antler Ridge Trailhead
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Replace Subsection 106-1.05 with the following:

106-1.05 CERTIFICATES OF COMPLIANCE. A certificate of compliance must meet one of the following:

1. If by manufacturer's certification, the certificate must include the project name and number, the signature of the manufacturer, and must include information that clearly demonstrates the material or assembly complies with all Contract requirements except for domestic preference.
2. If by Contractor's summary sheet, the summary sheet must include the project name and number, the signature of the contractor, and must include attached documentation that clearly demonstrates the material or assembly fully complies with all Contract requirements except for domestic preference.

Electronic submittals that are submitted by email from the Contractor's email account are considered signed by the Contractor.

The Contractor shall submit additional certificates of compliance or test data if required by the Contract or by the Engineer. The Engineer may refuse permission to incorporate materials or products into the project based on a certificate of compliance that does not meet the Contract requirements.

HSP20.7A-23.1114

SECTION 107
LEGAL RELATIONS AND RESPONSIBILITY TO PUBLIC

107-1.02 PERMITS, LICENSES, AND TAXES.

The Department will: Add No. 3:

3. See Appendix A for all Department-secured permits.

The Contractor shall:

Replace No. 1. with the following:

1. Acquire all permits and licenses required to complete the project that are not acquired by the Department.
 - a. Complete all draft permits. Draft permits are included in Appendix F, when there are draft permits.

CR107.2-070121

Add No. 10:

10. Provide a wetland specialist able to conduct wetlands determinations and delineations according to the Corps of Engineers 1987 Wetland Delineation Manual, and the Regional Supplement to the Corps of Engineers Wetland Delineations Manual (Alaska Region, Version 2.0, September 2007). The wetland specialist shall conduct the determination and delineations of sites outside the project limits or not previously permitted, impacted by the Contractor's operations. These delineations will be subject to Corps of Engineers approval.

CR107.5-120117R

107-1.07 ARCHAEOLOGICAL OR HISTORICAL DISCOVERIES.

Replace the 1st sentence including numbers 1, 2, and 3, with:

When operation encounters historic or prehistoric artifacts, burials, remains of dwelling sites, paleontological remains, (shell heaps, land or sea mammal bones or tusks, or other items of historical significance), cease operations immediately and notify the Engineer.

CR107.3-051517

107-1.11 PROTECTION AND RESTORATION OF PROPERTY AND LANDSCAPE.

Add the following:

Non-municipal Water Source. If water is required for a construction purpose from a nonmunicipal water source, obtain a Temporary Water Use Permit from the Water Resource Manager, and provide a copy to the Engineer. The Water Resource Manager is with the Department of Natural Resources in Anchorage and may be contacted at (907) 269-8645.

CR107.3-051517

Add the following:

Eagles. Eagles are protected under 16 U.S.C. 668-668c Protection of Bald and Golden Eagles, that prohibits “takes” of eagles, their eggs, nests, or any part of the bird. The Act defines “taking” as “to pursue, shoot, shoot at, poison, wound, kill, capture, trap, collect, molest, or disturb.”

Maintain a Primary Zone of minimum 330-feet as an undisturbed habitat buffer around nesting eagles. If topography or vegetation does not provide an adequate screen or separation, extend the buffer to 1320-feet, or a sufficient distance to screen the nest from human activities. The actual distance will depend on site conditions and the individual eagle’s tolerance for human activity. Within the Secondary Zone, between 330-feet and 660-feet from a nest tree, no obtrusive facilities, or major habitat modifications shall occur. If nesting occurs in sparse stands of trees, treeless areas, or where activities would occur within line-of-site of the nest, extend the buffer up to 2640-feet. No blasting, logging and other noisy, disturbing activities should occur during the nesting period (February 1 – August 31) within the primary or secondary zones.

Do not disturb a nesting eagle. Notify the Engineer when an active eagle nest is within the primary or secondary zones.

CR107.1-100118

**SECTION 108
PROSECUTION AND PROGRESS**

108-1.01 SUBCONTRACTING OF CONTRACT.

In item 1g. replace AS 45.45.101(a) with AS 45.45.010(a).

In item 2f. replace AS 45.45.101(a) with AS 45.45.010(a).

HSM20.41-010122

Replace Subsection 108-1.01 1h. with the following:

1h. Other required items listed in Form 25D-042 are included in the subcontracts;

Replace Subsection 108-1.01 2g. with the following:

2g. Other required items listed in Form 25D-042, are included in the lower tier subcontracts;

CR108.4-010120

Add the following Subsection 108-1.011 Related Sections:

108-1.011 RELATED SECTIONS.

Section 652, Prosecution and Progress – Supplemental Requirements

CR108.3-012816R

108-1.03 PROSECUTION AND PROGRESS. Replace the last sentence of the first paragraph with the following: Submit the following at the Preconstruction Conference:

Replace item 1. with the following:

1. A Critical Path Method (CPM) Schedule is required, in a format acceptable to the Engineer, showing the order the work will be carried out and the contemplated dates the Contractor and subcontractors will start and finish each of the salient features of the work, including scheduled periods of shutdown. Indicate anticipated periods of multiple shift work in the CPM Schedule. Revise the proposed CPM Schedule promptly. Promptly submit a revised CPM Schedule if there are substantial changes to the schedule, or upon request of the Engineer.

(03/01/24)PARKS-Special Provision

108-1.07 FAILURE TO COMPLETE ON TIME.

Replace Table 108-1 with the following:

**Table 108-1
DAILY CHARGE FOR LIQUIDATED DAMAGES
FOR EACH CALENDAR DAY OF DELAY**

Original Contract Amount		Daily Charge
From More Than	To and Including	
\$ 0	500,000	\$1,400
500,000	1,000,000	1,700
1,000,000	5,000,000	2,600
5,000,000	10,000,000	3,800
10,000,000	25,000,000	4,500
25,000,000	-----	6,600

HSM20.43-070122

**SECTION 109
MEASUREMENT AND PAYMENT**

109-1.01 GENERAL.

Replace the 2nd paragraph with the following:

When more than one type of material or work is specified for a pay item, the proposal line number, and the description are used to differentiate the material or work.

CR109.4-010120

109-1.02 MEASUREMENT OF QUANTITIES. Add the following:

14. Hour. Measured items by the hour shall be full payment for the work described in the contract including labor, equipment, and operating costs of the equipment. Items to be measured by the hour will be recorded to the nearest quarter-hour by the Engineer. The measurement shall start when the required equipment & operator, surveyor, or survey party begins work at the specified location as directed by the Engineer. The measurement will stop when the required work is accomplished, when the equipment fails, when directed to stop work by the Engineer, or when the operator stops work. Times will be reconciled with the Contractor on a daily basis.

(02/23/15)PARKS-Special Provision

109-1.05 COMPENSATION FOR EXTRA WORK ON TIME AND MATERIALS BASIS.

Under Item 3. Equipment, Item a. add the following to the second paragraph:

The rental rate area adjustment factors for this project shall be as specified on the adjustment maps for the Alaska – Central Region.

Provide a printed copy of the current EquipmentWatch rate sheet for each piece of equipment utilized on time and materials work.

109-1.08 FINAL PAYMENT. Add the following after the fifth paragraph:

On federally funded projects, if DOLWD Wage and Hour Administration notifies the Department of a pending prevailing wage investigation, and that the investigation is preventing the closing out of the project, the Contractor may place the notified amount in escrow under Wage and Hour for the exclusive purpose of satisfying unpaid prevailing wages. Upon receipt of notice from Wage and Hour that the Contractor has satisfactorily transferred the necessary funds into escrow, the Department will proceed to issue final payment.

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**SECTION 120
DISADVANTAGED BUSINESS ENTERPRISE (DBE) PROGRAM**

Delete Section 120 Disadvantaged Business Enterprise (DBE) Program:

CR120.1-030117

120-1.01 DESCRIPTION. In the first sentence of the second paragraph, replace “8.83 percent” with “8.28 percent”

120-3.01 DETERMINATION OF COMPLIANCE. Replace 2a. with the following:

2a. Written DBE Commitment. Complete Form 25A-326 for each DBE to be used on the project.

HSM20.21-123121

**SECTION 201
CLEARING AND GRUBBING**

201-3.01 GENERAL. Add the following:

Perform the work necessary to preserve and/or restore land monuments and property corners from damage. Restore land monuments and/or property corners that are disturbed according to Section 642. An undisturbed area five feet in diameter may be left around existing monuments and property corners. A list of land monuments and property corners is shown on the Right of Way maps.

CR201.3-042313

Add the following:

Clearing and grubbing is not permitted within the migratory bird window of May 1 to July 15; except as permitted by Federal, State and local laws when approved by the Engineer.

CR201.1-010114

201-3.03 GRUBBING. Add the following: The Contractor has the option to screen organic soil obtained from grubbing to meet the gradation for topsoil as specified under Section 726, or as approved by the Engineer. The screened material may be used for topsoil onsite.

(05/02/11)PARKS-Special Provision

201-5.01 BASIS OF PAYMENT. Add the following:

The work required to cut, de-limb, and stack timber for public removal is subsidiary to 201 Pay Items.

CR201.2-010114

Add the following:

The work required to preserve and restore land monuments and property corners is subsidiary to 201 Pay Items.

CR201.3-04231

**SECTION 203
EXCAVATION AND EMBANKMENT**

203-3.04 COMPACTION WITH MOISTURE AND DENSITY CONTROL.

In the second paragraph delete "and ATM 214".

HSM20.5-113020R

**SECTION 301
AGGREGATE BASE AND SURFACE COURSE**

301-2.01 MATERIALS.

Add the following after the first sentence:

Recycled Asphalt Material (RAM) may be substituted for aggregate base course, inch for inch, if the following conditions are met:

1. RAM shall be crushed or processed to 100 percent by weight passing the 1.5 inch sieve and 95-100 percent by weight passing the 1 inch sieve.
2. The gradation of the extracted aggregate shall meet the following:

Sieve	Percent Passing by Weight
1 inch	100
3/4 inch	70 – 100
3/8 inch	42 – 90
No. 4	28 – 78
No. 16	11 – 54
No. 50	5 – 34
No. 100	3 - 22
No. 200	2 – 12

3. The asphalt content shall be 2.5 – 5.0 percent by weight of the RAM.

CR301.1-012407R

301-3.01 PLACING.

Add the following:

Place base course material, used for the sidewalk and pathway foundations, with equipment capable of providing a specified depth and uniform surface.

CR301.2-062116

Add No. 5 after the 5th paragraph:

5. within 50 feet of detector loops.

CR301.3-022015

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301-3.03 SHAPING AND COMPACTION.

In the second paragraph delete "and ATM 214".

HSM20.5-113020R

Add the following:

If recycled asphalt material is substituted for aggregate base course, the following conditions shall be met:

1. Density acceptance will be determined by control strip method ATM 412. Use a test strip with a vibratory compactor with a minimum dynamic force of 40,000 pounds. The optimum density will be determined by the Engineer using a nuclear densometer gauge to monitor the test strip. Adequate water shall be added to aid compaction.
2. After the appropriate coverage with the vibratory compactor, a minimum of 6 passes with a pneumatic tire roller shall be completed. Tires shall be inflated to 80 psi (\pm 5 psi) and the roller shall have a minimum operating weight per tire of 3,000 pounds.

CR301.1-012407

Replace Section 618 with the following:

**SECTION 618
SEEDING**

618-1.01 DESCRIPTION. Establish a healthy living perennial stand of grass or other vegetative living groundcover by seeding. Maintain the living cover for the term of the Contract.

618-2.01 MATERIALS. Use materials that conform to the following:

Water	Subsection 712-2.01
Seed	Section 724 (Grass Seed)
Fertilizer	Section 725
Topsoil	Section 726
Soil Stabilization	Section 619
Soil Stabilization Material	Section 727

**TABLE 618-1
GRASS SEED MIX, SOIL STABILIZER, AND FERTILIZER APPLICATION RATES**

Materials	Ingredients	Application Rate (per MSF ^c)
Grass Seed Mix ^{a, b}	Nortran – Tufted Hairgrass	0.45 lbs.
	Arctared – Red Fescue	0.45 lbs.
	Wainwright - Slender Wheatgrass	0.30 lbs.
	Gruening Alpine Bluegrass	0.30 lbs.
	<u>Total = 1.50 lbs.</u>	
Soil Stabilizer Slope ≤ 3:1	Mulch	46 lbs.
	Slope >3:1	Mulch with tackifier
Fertilizer	20-20-10	12 lbs.

- a. Do not remove the tags from seed bags.
- b. Submit an alternate seed mix when the specified seed is not commercially available. Provide a letter confirming the specified seed is not available. Include an agronomist certified seed mix design, including application rate, suited to the project site.
- c. MSF = 1000 ft².

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618-3.01 SURFACE PREPARATION. Remove ruts, holes, humps and other irregularities from the surface. Clear stones four inches in diameter and larger, weeds, plant growth, sticks, stumps, and other debris that will interfere with the application of stabilization material, topsoil, the seeding operation, growth of vegetative groundcover, and subsequent maintenance of the cover.

Smooth the slopes for a uniform appearance and round the top and bottom of the slopes to facilitate tracking or raking. Do not disrupt drainage flow lines.

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Evenly place stabilization material and or topsoil when specified.

Prepare the surface material by grooving the material in a uniform pattern that is perpendicular to the fall of the slope. Use one or more of the following grooving methods with associated equipment before the application of seed:

1. Manual raking with landscaping rake;
2. Mechanical track walking with track equipment; or
3. Mechanical raking with a scarifying slope board. Form one-inch wide grooves spaced no more than six inches apart.

618-3.02 SEEDING SEASON. Seed disturbed areas after permanent cessation of ground disturbing activities in that area, within the period specified in the Alaska Department of Environmental Conservation (ADEC) Alaska Pollutant Discharge Elimination System (APDES) Construction General Permit (CGP) for Alaska, Section 4.5 Soil Stabilization, and Section 641 Erosion, Sediment, and Pollution Control.

Do not seed during windy conditions, when climatic conditions or ground conditions would hinder placement or proper growth and establishment.

Perform seeding after the ground is free of snow and no sooner than May 15 and no later than August 15.

618-3.03 APPLICATION. Seed, seeding, reseeding includes the application of seed, fertilizer, and stabilization material.

If the seed mix, fertilizer and stabilization material are not included in the Plans or Specifications, including their application rates, use the recommendations of the ADNR and the Interior Alaska Revegetation and Erosion Control Guide, Latest Edition.

Do not seed areas of bedrock and plant beds.

Use any of the following methods:

1. Hydraulic Method

Apply seed and stabilization material in one application when using the hydraulic method. Apply fertilizer with the hydraulic method. Include the fertilizer with the seed and stabilization material or apply separately.

- a. Furnish and place a slurry made of seed, fertilizer, water, and other materials.

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- b. Use hydraulic seeding equipment that will maintain a continuous agitation and apply a homogeneous mixture through a spray nozzle. The pump must produce enough pressure to maintain a continuous, nonfluctuating spray that will reach the extremities of the seeding area with the pump unit located on the roadbed. Provide enough hose to reach areas not practical to seed from the nozzle unit situated on the roadbed.
- c. If mulch material is required, it may be added to the water slurry in the hydraulic seeder after adding the proportionate amounts of seed and fertilizer. Add seed to the slurry mixture no more than 30 minutes before application.
- d. Mix the slurry and apply it evenly.

2. Dry Methods

- a. Use mechanical spreaders, seed drills, landscape seeders, aircraft, cultipacker seeders, fertilizer spreaders, or other approved mechanical spreading equipment.
- b. Spread fertilizer separately at the specified rate.

618-3.04 MAINTENANCE. Maintenance includes but is not limited to the following:

1. Protecting seeded areas against traffic by approved warning signs or barricades and against erosion.
2. Repairing surfaces gullied or otherwise damaged following seeding. Fill erosion gullies 4 inches deep and greater filling the gully to surrounding grade including the portions less than 4 inches deep. Apply and prepare the stabilization material and or topsoil for seeding. Seed repaired area. Refer to Subsections 618-3.01 & 3.03.
3. Reseeding areas not showing evidence of satisfactory growth within 3 weeks of seeding and after repairs are complete. Reseed bare patches of soil more than 10 square feet in area. Contact ADNR for advice or corrective measures, when seeded areas are not showing evidence of satisfactory growth.
4. Watering seeded areas for healthy growth of vegetative cover. Adjust the amount of water when directed.

618-3.05 ACCEPTANCE. The vegetative ground cover will be inspected considering each station and each side of the road a separate area. Acceptance of the ground cover requires a minimum of 75% cover density in the inspection area, gullies repaired and reseeded, and no bare patches of soil more than 10 square feet in area.

Repair/reseed areas that are not accepted.

618-3.06 PERIOD OF ESTABLISHMENT. Establishment period, for each seeded area, extends one complete growing season (May 1 to August 15) after the planting year, acceptance, and final inspection beginning from the date of Project completion, Subsection 105-1.15.

Employ all possible means to preserve/maintain the new vegetative groundcover in a healthy and vigorous condition to ensure successful establishment. Maintain the vegetative cover, according to Subsection 618-3.04, to not less than the requirements for acceptance, Subsection 618-3.05.

CR618-23.0601

Replace Section 622 with the following:

SECTION 622 PARK FACILITIES

622-1.01 DESCRIPTION. This work shall consist of furnishing, constructing and placing park facilities in conformance with the Plans and Special Provisions. Provide all materials, equipment and labor necessary to construct the trails shown on the plan sheets. Trail shall be constructed using amended Best Trails Management Practices in the Plans. The Contractor shall be required to meet the following criteria:

1. The Contractor shall provide three years of documented experience in constructing multi-use trails.
2. The Contractor shall provide three industry references from previous clients.
3. The Contractor shall provide documentation showing a minimum 24 hrs. of formal “sustainable” trail construction instruction from: Alaska Trails, California State Parks, International Mountain Bicycling Association, PTBA, USFS, Trails Unlimited, or a similar organization or another source approved by DNR.
4. The Contractor shall provide documentation of constructing at least 1 “sustainably” designed multi-use and/or ATV trail with a length of at least 5 miles. Sustainably shall be defined as per the Alaska State Parks Trail Management Handbook, published May 2015.

The Contractor shall develop and submit a trail prescription prior to the trail construction.

622-1.02 APPLICABLE ACCESSIBILITY STANDARD. Americans with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities.

622-1.03 SUBMITTALS AND SUBSTITUTIONS. Conform to Subsection 106-1.01.

MATERIALS

622-2.01 GENERAL. All materials shall be new and conform to the details shown on the plans or as specified.

622-2.02 BACKFILL. Selected Material, Type A conforming to Subsection 703-2.07.

622-2.03 CONCRETE. Class A Concrete conforming to Section 501.

622-2.04 STRUCTURAL STEEL. Structural steel shall conform to the requirements of ASTM Specification A36 (Standard Specification for Carbon Structural Steel).

622-2.05 GALVANIZING. Conform to AASHTO M111/ASTM A123 (Standard Specification for Zinc [Hot-Dip Galvanized] Coatings on Iron and Steel Products), or AASHTO M232/ASTM A153 (Standard Specification for Zinc Coating[Hot-Dip] on Iron and Steel Hardware). Repair damaged galvanizing by using low melting point zinc repair

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rods in conformance with ASTM A780 (Standard Practice for Repair of Damaged and Uncoated Areas of Hot-Dip Galvanized Coatings).

622-2.06 LUMBER. Conform to Section 713. Wood species shall be Douglas Fir or Hem-fir unless otherwise specified.

1. Dimensional. Dimensional lumber and timbers are shown on the plans in nominal dimensions, i.e.; 2x4, indicating surfaced four sides (S4S) or planed material. Use classification for light framing shall be Construction Grade. Use classification for structural joists and planks shall be No. 2 Grade or Better. Manufacturing classification shall be Dressed (Surfaced) Lumber. Size classification shall be Nominal Size Designations of Boards, Dimension, and Timbers.
2. Rough Cut. Unless otherwise indicated, rough cut lumber and timbers are shown on the plans in actual dimensions, i.e.; 2"x4", indicating rough cut material. Use classification shall be Structural Lumber, No. 2 Grade or Better. Manufacturing classification shall be Rough Lumber. Size classification shall be Rough Dry Sizes.

622-2.07 TREATED LUMBER. Wood species conforms to Subsection 622-2.06.

Treatment shall be as follows:

1. Above Ground Applications. Preservative pressure treatment shall conform to Section 714. Pressure treat with preservative Ammonical Copper Quat - Type A,B,C, or D(ACQ-A,B,C, or D) or Copper Azole – Type A (CBA-A). Minimum retention shall be 0.40 pounds per cubic foot or to refusal. Treated materials shall be uniformly brown in color and nonincised. This type of treated lumber is commonly used for residential decks for above ground applications. Incising may be used on 4x and thicker material to obtain minimum retention.
2. Ground Contact Applications. Preservative pressure treatment shall conform to Section 714. Pressure treat with preservative Ammonical Copper Quat - Type A,B,C, or D(ACQ-A,B,C, or D) or Copper Azole – Type A (CBA-A). Minimum retention shall be 0.60 pounds per cubic foot. Exposed treated materials shall be pigmented uniformly brown in color by manufacturer.

622-2.08 RECYCLED PLASTIC LUMBER. Recycled plastic lumber shall contain a minimum of 90% recycled HDPE. Recycled plastic lumber shall have a minimum flexural strength of 1355 psi and compressive strength of 1420 psi as determined by ASTM D6109, minimum specific gravity of 0.861 g/cc as determined by ASTM D6111, and a maximum thermal expansion of 0.000033 inch/inch/degree F as determined by ASTM D6341. The lumber shall also incorporate an ultraviolet stabilizer at the time of manufacturing. Color shall be as determined by the Engineer.

622-2.09 METAL ROOFING. Exposed fastener metal roof system with panel base metal steel conforming to ASTM A446, Grade 80, (80,000 psi minimum tensile strength)

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with a protective coating of zinc-aluminum alloy conforming to ASTM A924/ASTM A792, 45 percent zinc and 55 percent aluminum by weight applied to a thickness of 1.9 mils. Alternate coatings proposed for substitution will not be accepted. Exterior paint finish to be a 0.8 mil Acrylic Emulsion finish coat over a 0.2 mil baked-on acrylic primer. Exterior color to match Denali Green by IMSA Building Products Inc., or approved equal. Interior paint finish to be a 0.25 mil off-white backer over a 0.15 mil baked-on acrylic primer.

1. Roof Panels. Minimum 29 gauge, 36 inch net width panel with 9 inch on center roll-formed profile pattern consisting of three evenly spaced ribs, one tall rib followed by two shorter ribs.
2. Gable Trim and Universal Ridge. Shall be approximately 6 inches wide.
3. Closure Strips. Polyethylene foam type to fit panel profile or 1 inch by 1 inch universal closures.
4. Sidelap Mastics. Closed cell neoprene butyl.
5. Fasteners. Metal to wood fasteners as recommended by the manufacturer. Fastener length should assure penetration of at least one inch into the wood. Fastener heads shall be pre-painted the same color as roof panels.

622-2.10 FASTENERS. Commercial quality and type of nails and screws as required to securely hold all members in place in accordance with National Design Specifications (NDS). Nails shall be hot dipped galvanized. All other fasteners shall be corrosion resistant. Fasteners in pressure treated wood shall be hot dipped galvanized. Nails and wood screws below grade in pressure treated wood shall be stainless steel.

622-2.11 STANDARD PARK PADLOCK. Master Lock No. 1 with 5/16 inch shackle diameter, 15/16 inch vertical clearance, 3/4 inch horizontal clearance, 1-3/4 inch case width, and keyed alike to a key number provided by the Engineer specific to the Park area. Provide two keys with each padlock.

622-2.12 PAINT. Unless otherwise specified, use the following paint types and colors, or approved equals:

1. Solid Oil Stain. Exterior oil/alkyd flat finish stain, color "Russet". DF7XX as manufactured by Fuller O'Brien / Devoe Products, Behr Plus 10 Solid Stain, Rural Manor II Solid Color Stain (714401x) as manufactured by Rodda Paint Co., or approved equivalent. Submit color samples of proposed substitutions for approval.
2. Semi-Transparent Oil Stain. Exterior alkyd based stain, color Sherwin Williams "SW 3507 Riverwood", Behr Superdeck "#1907 Canyon Brown", or PPG Architectural Finishes Olympic "Russet".

3. Clear Oil Stain. Non-pigmented penetrating exterior alkyd base stain formulated for water repellency.
4. Metal Primer Paint. As recommended by enamel paint manufacturer.
5. Enamel Paint. Exterior alkyd base gloss enamel. Color to match solid oil stain color.
6. Concrete Sealer. Clear acrylic copolymer conforming to AASHTO M148/ASTM C309 (Standard Specification for Liquid Membrane-Forming Compounds for Curing Concrete, for Type 1 Compounds).
7. Above Ground Wood Preservative. Brown preservative with active ingredient of minimum 9.08 percent copper naphthenate (equivalent to minimum 1 percent metallic copper). Color to be approved by Engineer.
8. Below Ground Wood Preservative. Preservative with active ingredient of minimum 16 percent copper naphthenate (equivalent to minimum 2 percent metallic copper).
9. End Cut Preservative for Treated Wood. Brown preservative with active ingredient of minimum 10 percent copper naphthenate (equivalent to minimum 1 percent metallic copper). Color to match preservative pressure treatment color.

Paint that has been frozen or is out of date shall be replaced at no additional cost to the Department.

622-2.13 SIGNS. Fabricate sign panels to the dimensions shown on Plans. Metal sign panels shall be 0.125 inch thick alloy 6061-T6, 5052-H36, or 5052-H38 aluminum. Wood sign panels shall be medium density overlay (MDO) plywood. Signs shall have Type II (medium intensity) reflective sheeting background with color as specified. White high intensity sheeting for symbols, letters, and borders shall match 3M Scotchlite Reflective Sheeting #3290. Brown medium intensity sheeting for background shall match 3M Scotchlite Reflective Sheeting #3279.

622-2.14 TRAIL SIGN, TYPE A. Construct in accordance with the Plans. Lumber shall be ground-contact treated.

622-2.15 TRAIL SIGN, TYPE B. Construct in accordance with the Plans. Provide necessary hardware to attachment pedestrian fencing to the post. Lumber shall be ground-contact treated.

622-2.16 TRAIL SIGN, TYPE C. Construct in accordance with the Plans and Alaska DOT&PF standard drawings S-00.12, S-05.02, and S-30.03.

622-2.17 INTERPRETIVE KIOSK, TYPE B. Conform and Construct Interpretive Kiosk, Type B, in a mirror image of Standard Drawing S-10B. Interpretive panel frame, bulletin board frame and 2x6 concrete column forms shall be surfaced four sides clear

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cedar. Provide plexi-glass polycarbonate sheeting for each bulletin board as shown in the Plans.

Metal Roof shall conform to subsection 622-2.09. Column bases shall be corrosion resistant and embedded in wet concrete for subsequent connection of wood post to concrete footing. Size column base to dimension of post. Rough cut posts shall have commercially fabricated column bases inset a maximum of 1/2 inch. If commercial bases cannot meet the 1/2 inch requirement, custom fabricate full dimension column bases. Stirrup shall be provided with holes for two galvanized bolts with washers. Similar to Simpson CB88.

Post Size	Base Plate Gage & Dimension	Stirrup Material	Post Bolts	Allowable Uplift Load
8 X 8	7 ga & 7-1/2" X 7-1/2"	3 ga x 3" strap	2 each 3/4"	6,650 pounds

622-2.18 TRAIL PRESCRIPTION. This work shall consist of providing a trail prescription including alignment grades, slopes, horizontal layouts, water controls, and miscellaneous items. The trail prescription shall conform to the objectives outlined in the trail management objectives. It will be reviewed and approved by the Department prior to implementation. After final acceptance of trail prescription Contractor shall provide alignment line and curve data to Engineer.

622-2.19 TRAIL CONSTRUCTION. This work shall consist of all clearing and grubbing, excavation, hauling, placing, grading, compacting and other ancillary work required to construct the trail in accordance with the approved prescription and assigned TMO's. All clearing and/or grubbing activities shall take place outside of the Migratory Bird Treaty Act (MBTA) window as determined by the U.S. Fish and Wildlife Service (FWS) under the website publication for the construction year:

http://alaska.fws.gov/fisheries/fieldoffice/anchorage/pdf/vegetation_clearing.pdf

The Department's Office of History and Archeology has completed an archeological survey prior to construction. After the trail alignment has been accepted and flagged, the Contractor shall work with the Engineer to verify no impact to culturally and archeologically significant areas. The Contractor shall immediately notify the Engineer if any artefacts are found within the proposed trail alignment during construction; and any adjustments to the trail alignment due to cultural or archeological impacts will not be measured for payment.

No culverts are scheduled to be installed as part of the trail construction. If wet crossings are not feasible when the trail prescription is completed, please coordinate with the Department. At that time, the Department can apply for any permits that may be required. If the Engineer determines culvert crossing is required, compensation for work provided will be paid for on a Time & Materials basis via Item 647.0000.0000 – Backhoe, 4WD, 1CY Bucket, 75-HP Minimum.

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CONSTRUCTION REQUIREMENTS

622-3.01 GENERAL. The location shown on the drawings for park facilities placement are approximate. The Engineer will field locate park facilities at the time of construction. Provide transportation to and from the job site. Provide all equipment, in good working condition, required to complete the work. Employ knowledgeable and skilled workers. The Contractor shall coordinate with the Department any materials or equipment to be left on site. All contract operations will be completed in accordance with applicable state and federal regulations.

622-3.02 SITE PROTECTION. All areas affected by construction operations shall be kept clean and organized throughout the duration of construction. It is the Contractor's responsibility to maintain the security of the Construction Site and all corresponding equipment and materials left on-site through the course of construction.

622-3.03 EXCAVATION AND BACKFILL. Conform to the requirements of Section 204 and the details on the plans.

622-3.04 CONCRETE. Conform to the requirements of Section 501 and the details on the plans.

622-3.05 STRUCTURAL STEEL. Welding to conform to American Welding Society D1.1.

622-3.06 WOOD. Competent carpenters shall be employed and all framing shall be true and exact. Unless otherwise specified, nails and spikes shall be hand driven with just sufficient force to set the heads flush with the surface of wood. Power nail guns may be used if the pressure may be adjusted to drive the nail flush with the face of the lumber. All non-removable shipping, storage, weathering and erection marks on fabricated lumber shall be hidden from view in the completed work. Use of damaged lumber shall not be allowed. Store on-site lumber above the ground and protected from damage and weathering.

Holes for round drift-bolts and dowels shall be bored with a bit 1/16 inch smaller in diameter than that of the bolt or dowel used. Holes for machine and carriage bolts shall be bored with a bit of the same diameter as that of the bolt. Holes for lag screws shall be bored with a bit not larger than the body of the screw at the root of the thread.

Unless otherwise specified, USS flat washers shall be used in contact with all bolt heads and nuts that would otherwise be in contact with wood.

622-3.07 METAL ROOFING. Store sheets and other roofing components above the ground and keep dry. Metal roofing shall not come into contact with lead, aluminum, copper, alkalines, fertilizers, or acids. Panels shall be clean and unmarked during and after erection.

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Place roofing felt over 2x6 T&G. Lap felt 4 inches minimum at sides and top and 10 inches at ridge.

Position first roof panel at gable end away from prevailing wind and check for alignment with building structure. Panels shall overhang sheathing at eave, as shown on the drawing, as a drip edge. Sidelap mastic shall be installed continuously along edge of panels. Do not place fasteners through the sidelap mastic. Install wood-metal screws at 24 inches on center at major ribs and stitch screws at 12 inches on center at sidelaps.

Align roof panels correctly prior to ridge cap installation. Install closure strips under ridge cap and fasten through cap, closure strips, and roofing at each major rib.

Install closure strip under panel prior to flashing installation. Fasten at 12 inches on center with stitch screws.

Apply gable trim to both roof ends. Fasten at top and sides at 24 inches on center.

622-3.08 PAINT. Deliver in sealed containers with labels legible and intact. Remove dirt, grease, oil and other construction debris prior to painting. Ensure that surfaces to be painted are even, smooth, sound, clean, dry, and free from defects affecting proper application. Metal surfaces to receive paint shall be corrosion free. Apply per manufacturer's recommendations. Apply paint material evenly without runs, sags, or other defects. Work each coat into the material being coated at an average rate of coverage recommended by the manufacturer. Cover surfaces completely to provide uniform color and appearance. Remove all paint, stain, or other finish material where it has spilled or spattered.

1. General. Unless otherwise specified, schedule finishes as follows:

a. Non-Treated Wood, Surfaced. Finish surfaces not scheduled to receive stain or clear oil stain with wood preservative.

b. Non-Treated Wood, Rough Cut. Saturate below and above ground surfaces not scheduled to receive stain with wood preservative.

c. Treated Wood, Hidden. Dado cuts, cut ends, drilled holes and field cuts in wood materials shall be brush coated to saturation with end cut preservative.

d. Treated Wood, Exposed. Saturate cut surfaces with scheduled finish. Finish surfaces not scheduled to receive stain with wood preservative.

e. Concrete and Masonry. Seal exposed surfaces.

f. Metal. Prime and paint exposed metal surfaces as required. Finish is not required for fasteners that are galvanized or corrosion resistant.

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2. Interpretive Kiosk, Type B.
- a. Interp/Bulletin Board Frame and Exposed T&G Wood. Clear Oil Stain
 - b. Other Wood. Semi-Transparent Oil Stain
 - c. Metal Roof. Manufacture applied finish.
 - d. Other Metal, except Fasteners. Primer and Enamel Paint
 - e. Bulletin Board Sound Board. Off White Flat Latex Paint

622-3.09 TRAIL SIGN, TYPE A. Construct in accordance with the Plans.

622-3.10 TRAIL SIGN, TYPE B. Construct in accordance with the Plans.

622-3.11 TRAIL SIGN, TYPE C. Construct in accordance with the Plans.

622-3.12 INTERPRETIVE KIOSK, TYPE B. Conform and Construct Interpretive Kiosk, Type B, in a mirror image of Standard Drawing S-10B.

All required clearing and grubbing, excavation, grading, seat rocks, and materials necessary for Interpretive Kiosk, Type B is considered subsidiary.

622-4.01 METHOD OF MEASUREMENT. Park facilities with the unit measure each will be measured by the actual number of facilities completed and accepted.

Excavation and embankment for park facilities outside the limits shown on the plans will be measured for payment only if directed by the Engineer. Excavation and backfill required for items paid for under this Section will not be measured for payment.

Seat rocks for Interpretive Kiosk, Type B will be subsidiary to that item and will not be measured separately for payment.

Item 622.3000.0000 Trail Prescription is considered lump sum and will not be measured directly for payment. The Engineer's acceptance shall constitute measurement.

Item 622.3002.0002 Trail Construction, Class 2 will be measured by the station (100 feet), measured horizontally, parallel to the centerline alignment.

Item 622.3003.0003 Trail Construction, Class 3 will be measured by the station (100 feet), measured horizontally, parallel to the centerline alignment.

Item 622.3005.0004 Trail Construction, Class 5 will be measured by the station (100 feet), measured horizontally, parallel to the centerline alignment.

622-5.01 BASIS OF PAYMENT. The accepted quantity of park facilities will be paid for at the contract unit price per unit of measurement for the type specified completed in place, and listed below excluding all clearing, grubbing, topsoil and crushed aggregate base course, which shall be paid for separately at contract unit prices. ADA Accessible

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models of a park facility item will be compensated at the same unit price as the standard model.

Wherever the Contract provides that certain work is subsidiary or it is without compensation, the payment for that work is included in the payment for other items of work, and no further or additional payment shall be made for that work. The Contractor shall accept the bid amount for a lump sum item as complete payment for all work necessary to complete that item. Quantities shown for lump sum items are approximate. No adjustment in the lump sum price will be made if the quantity furnished is more or less than the estimated quantity unless the Contract specifically states otherwise.

Item 622.3000.0001 Trail Prescription will be paid for at the Contract lump sum price for the approved trail prescription.

Item 622.3002.0000 Trail Construction, Class 2 will be paid for at the measured per station price for constructing the Class 2 trail as shown in the plans and built to the approved prescription. Bid price to include all clearing and grubbing, mobilization and demobilization of equipment, excavation, grading, compaction, and any other ancillary work items required to construct the trail.

Item 622.3003.0000 Trail Construction, Class 3 will be paid for at the measured per station price for constructing the Class 3 trail as shown in the plans and built to the approved prescription. Bid price to include all clearing and grubbing, mobilization and demobilization of equipment, excavation, grading, compaction, and any other ancillary work items required to construct the trail.

Item 622.3005.0000 Trail Construction, Class 5 will be paid for at the measured per station price for constructing the Class 5 trail as shown in the plans and built to the approved prescription. Bid price to include all clearing and grubbing, mobilization and demobilization of equipment, excavation, hauling, placing, grading, compaction, and any other ancillary work items required to construct the trail.

Payment will be made under:

PAY ITEM

Item Number	Item Description	Unit
622.2016.0000	Interpretive Kiosk, Type B	Each
622.2020.000A	Trail Sign, Type A	Each
622.2020.000B	Trail Sign, Type B	Each
622.2020.000C	Trail Sign, Type C	Each
622.3000.0000	Trail Prescription	Lump Sum
622.3002.0000	Trail Construction, Class 2	Station
622.3003.0000	Trail Construction, Class 3	Station
622.3005.0000	Trail Construction, Class 5	Station

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Replace Section 641 with the following:

**SECTION 641
EROSION, SEDIMENT, AND POLLUTION CONTROL**

641-1.01 DESCRIPTION. Plan, provide, inspect, and maintain control of erosion, sedimentation, water pollution, and hazardous materials contamination.

641-1.02 DEFINITIONS. These definitions apply only to Section 641.

Alaska Department of Environmental Conservation (ADEC). The state agency authorized by EPA to administer the Clean Water Act's National Pollutant Discharge Elimination System.

Alaska Pollutant Discharge Elimination System (APDES). A system administered by ADEC that issues and tracks permits for storm water discharges.

Best Management Practices (BMPs). Temporary or permanent structural and non-structural devices, schedules of activities, prohibition of practices, maintenance procedures, and other management practices to prevent or minimize the discharge of pollutants to waters of the United States. BMPs also include, but are not limited to, treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from material storage.

Clean Water Act (CWA). Federal Water Pollution Control Amendments of 1972, as amended (33 U.S.C. 1251 et seq.).

Construction Activity. Physical activity by the Contractor, Subcontractor or utility company; that may result in erosion, sedimentation, or a discharge of pollutants into storm water. Construction Activity includes soil disturbing activities (e.g. clearing, grubbing, grading, excavating); and construction materials or equipment storage or maintenance (e.g. material piles, borrow area, concrete truck chute washdown, fueling); and other industrial storm water directly related to the construction process (e.g. concrete or asphalt batch plants).

Environmental Protection Agency (EPA). A federal agency charged to protect human health and the environment.

Erosion and Sediment Control Plan (ESCP). The Department's project specific document that illustrates measures to control erosion and sediment on the project.

Final Stabilization. Final stabilization occurs when soil disturbing activities at the site have been completed and one of the following methods, as identified in the contract, has been completed: (a) establish a uniform and evenly distributed perennial vegetative cover with a density of 70 percent of the native background vegetative cover, or (b) construct

non-erodible permanent stabilization measures (such as riprap, gabions, geotextiles, pavement, and crushed aggregate base course) where vegetative cover is not required.

Haul Route. Existing or newly constructed road where construction materials are transported and where disposition of sediments or erodible materials may result from the material hauling activity or from the Contractor's activity to construct or maintain the road.

Hazardous Material Control Plan (HMCP). The Contractor's detailed project specific plan for prevention of pollution from storage, use, transfer, containment, cleanup, and disposal of hazardous material (including, but are not limited to, petroleum products related to construction activities and equipment). The HMCP is included as an appendix to the ESCP.

Multi-Sector General Permit (MSGP). The Alaska Pollutant Discharge Elimination System General Permit for storm water discharges associated with industrial activity.

Pollutant. Any substance or item meeting the definition of pollutant contained in 40 CFR § 122.2. A partial listing from this definition includes: dredged spoil, solid waste, sewage, garbage, sewage sludge, chemical wastes, biological materials, wrecked or discarded equipment, rock, sand, cellar dirt and industrial or municipal waste.

Project Area. The physical area provided by the Department for Construction. The Project Area includes the area of the facility under construction, project staging and equipment areas, and material and disposal sites; when those areas, routes and sites, are provided by the Department by the Contract and are directly related to the Contract. Support Activities including material sites, material processing sites, disposal sites, haul routes, staging and equipment storage areas; that are furnished by the Contractor or a commercial operator, are not included in the Project Area.

Spill Prevention, Control, and Countermeasure Plan (SPCC Plan). The Contractor's detailed plan for petroleum spill prevention and control measures that meet the requirements of 40 CFR 112.

Spill Response Field Representative. The Contractor's representative with authority and responsibility for managing, implementing, and executing the HMCP and SPCC Plan.

Subcontractor Spill Response Coordinator. The subcontractor's representative with authority and responsibility for coordinating the subcontractor's activities in compliance with the HMCP and SPCC Plan.

Superintendent. The Superintendent has responsibility and authority for the overall operation of the Project and for Contractor furnished sites and facilities directly related to the Project.

Temporary Stabilization. The protection of exposed soils (disturbed land) from wind and water erosion during the construction process until final stabilization occurs.

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641-1.04 SUBMITTALS. Submit two copies each of the SPCC ,HMCP, and amended ESCP, if applicable, to the Engineer for approval. Sign submittals. Deliver these documents to the Engineer.

The Department will review the submittals within 14 calendar days. Submittals will be returned to the Contractor as either requiring modification, or as approved by the Department.

The final ESCP, approved HMCP, and submitted SPCC Plan become the basis of the work required for the project's erosion, sediment, and pollution controls.

641-2.01 EROSION SEDIMENT CONTROL PLAN (ESCP) REQUIREMENTS. The Department will develop the project's base ESCP and include it as an appendix in the Special Provisions. The Contractor shall prepare any amendments to the ESCP based on scheduling, equipment, and use of alternative BMPs. The ESCP must include both erosion control and sediment control measures. The plan must address first preventing erosion, then minimizing erosion, and finally trapping sediment before it leaves the project site. The plan must address site specific controls and management plan for the construction site. The plan must also incorporate the requirements of the project permits.

The Contractor is responsible for amending the ESCP to include site specific control and management plan for material sites, waste disposal sites, haul routes, and other affected areas, public or private.

Specify the line of authority and designate a field representative for implementing ESCP compliance.

641-2.02 HAZARDOUS MATERIAL CONTROL PLAN (HMCP) REQUIREMENTS. Prepare the HMCP for prevention of pollution from storage, use, containment, cleanup, and disposal of all hazardous material, including petroleum products related to construction activities and equipment. Include the HMCP as an appendix to the ESCP. Compile Material Safety Data Sheets in one location and reference that location in the HMCP.

Designate a Contractor's Spill Response Field Representative with 24 hour contact information. Designate a Subcontractor Spill Response Coordinator for each subcontractor. The Superintendent and Contractor's Spill Response Field Representative must have 24 hour contact information for each Subcontractor Spill Response Coordinator and the Utility Spill Response Coordinator.

List and give the location and estimated quantities of hazardous materials (Including materials or substances listed in 40 CFR 117 and 302, and petroleum products) to be used or stored on the Project. Hazardous materials must be stored in covered storage areas. Include secondary containment for all hazardous material storage areas.

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Identify the locations where fueling and maintenance activities will take place, describe the activities, and list controls to prevent the accidental spillage of petroleum products and other hazardous materials. Controls include placing absorbent pads or other suitable containment under fill ports while fueling, and under equipment during maintenance or repairs.

Use secondary containment under all stationary equipment (equipment that does not have a seat for driving) that contains petroleum products. Use secondary containment under pumps, compressors, and generators.

List the types and approximate quantities of response equipment and cleanup materials available on the Project. Include a list and location map of cleanup materials, at each different work site and readily available off site (materials sources, material processing sites, disposal sites, staging areas, etc). Spill response materials must be stored in sufficient quantity at each work location, appropriate to the hazards associated with that site.

Describe procedures for containment and cleanup of hazardous materials. Describe a plan for the prevention, containment, cleanup, and disposal of soil and water contaminated by spills. Describe a plan for dealing with contaminated soil and water encountered during construction. Clean up of spills or contaminated surfaces must be initiated immediately and completed as soon as practicable.

Describe methods of disposing of waste petroleum products and other hazardous materials generated by the Project, including routine maintenance. Identify haul methods and final disposal areas. Assure final disposal areas are permitted for hazardous material disposal.

Describe methods of complying with the requirements of AS 46.04.010-900, Oil and Hazardous Substances Pollution Control, and 18 AAC 75. Include contact information for reporting hazardous materials and petroleum product spills to the Project Engineer and reporting to federal, state and local agencies.

641-2.03 SPILL PREVENTION, CONTROL AND COUNTERMEASURE PLAN (SPCC) REQUIREMENTS. Prepare and implement an SPCC Plan when required by 40 CFR 112; when both of the following conditions are present on the Project:

- a. Oil or petroleum products from a spill may reach navigable waters (as defined in 40 CFR 112); and
- b. Total above ground storage capacity for oil and any petroleum products is greater than 1,320 gallons (not including onboard tanks for fuel or hydraulic fluid used primarily to power the movement of a motor vehicle or ancillary onboard oil-filled operational equipment, and not including containers with a storage capacity of less than 55 gallons)

Reference the SPCC Plan in the HMCP and ESCP.

641-2.05 MATERIALS. Use materials suitable to withstand hydraulic, wind, and soil forces, and to control erosion and trap sediments according to the requirements of the CGP and the Specifications.

- Use the temporary seed mixture specified by special provision, or use annual rye grass if no temporary seed mix is specified.
- Use soil stabilization material as specified in Section 727.
- Use silt fences as specified in Section 729.
- Use straw that is certified as free of noxious weed by the United States Department of Agriculture, Natural Resources Conservation Service, Local Soil and Water Conservative District. Alaska Weed Free Forage Certification Program must be used when available. Hay may not be substituted for straw.
- Use a rain gauge.

641-3.01 CONSTRUCTION REQUIREMENTS. Comply with the requirements of the CWA.

1. Starting Construction.

- Do not begin Construction Activity until authorized by the Engineer
Post notices on the outside wall of the project office, and at publicly accessible locations near the beginning and end of the Project. Protect postings from the weather and locate so the public can read them without obstructing construction activities (for example, at an existing pullout). Include the following information in each of the postings:
 - Name and phone number of Contractor
Keep the updated ESCP, HMCP and SPCC at the on-site project office. If there isn't an on-site project office, keep the information at a location suitable to the Engineer.

Ensure all subcontractors and utility companies operating within the Project understand and comply with the ESCP.

Install sediment controls in accordance with the ESCP and before beginning Construction Activity that may result in land disturbance.

2. During Construction.

Comply with requirements of the HMCP and SPCC, and all state and federal regulations that pertain to the handling, storage, cleanup, and disposal of petroleum products or other hazardous substances. Contain, clean up, and dispose of discharges of petroleum products and other hazardous materials. Perform fueling operations in a safe and environmentally responsible manner. Place absorbent pads under fill ports while fueling,

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and under equipment during maintenance or repairs. Install secondary containment under all stationary equipment that contains petroleum products.

Comply with the requirements of 18 AAC 75 and AS 46, Oil and Hazardous Substances Pollution Control. Report petroleum product spills as required by federal, state and local law, and as described in the HMCP and SPCC.

Comply with the requirements of the SWPPP. Implement temporary and permanent erosion and sediment control measures identified in the SWPPP. Keep the SWPPP current. If storm water discharges threaten water quality, take immediate action. Comply with the requirements of 18 AAC 70 State of Alaska Water Quality Standards, AS 41.14.870 Protection of Fish and Game, Section 404 of the CWA, and all other applicable federal, state, and local statutes and regulations.

Coordinate with subcontractors and utility companies doing work in the project area so BMPs, and temporary and permanent stabilization are installed, maintained, and protected from damage.

3. Maintenance of BMPs.

Maintain temporary and permanent erosion and sediment control measures in effective operating condition. Remove sediment and debris from sediment traps, silt fences, and sediment ponds before sediment or debris accumulates to 50% of the BMP's design capacity.

Implement corrective actions as soon as possible, and before the next storm event whenever practicable. If implementation before the next storm event is impracticable, the situation must be documented in the SWPPP and alternative BMPs must be implemented as soon as possible.

4. Stabilization.

Stabilization may be accomplished using temporary or permanent measures. Initiate stabilization of disturbed soils, erodible stockpiles, disposal sites, and of erodible aggregate layers so that all of the following conditions are satisfied:

- a. As soon as practicable;
- b. As soon as necessary to avoid erosion, sedimentation, or the discharge of pollutants; and
- c. As identified in the SWPPP.

Land may be disturbed and stabilized multiple times during a project. Coordinate work to minimize the amount of disturbed soil at any one time. Do not disturb more soil than you can stabilize with the resources available.

Temporarily stabilize from wind and water erosion portions of disturbed soils, portions of stockpiles, and portions of disposal sites, that are not in active construction. Temporary stabilization measures may require a combination of measures including but not limited

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to vegetative cover, mulch, stabilizing emulsions, blankets, mats, soil binders, non-erodible cover, dust palliatives, or other approved methods.

Temporary or Permanent Seeding.

When temporary or permanent seeding is required, provide a working hydro seeding equipment located within 100 miles of the project by road; with 1,000 gallon or more tank capacity, paddle agitation of tank, and the capability to reach the seed areas with an uniform mixture of water, seed, mulch and tackifier. If the project is located in an isolated community the hydro-seeder must be located at the project.

Before applying temporary or permanent seeding, prepare the surface to be seeded to reduce erosion potential and to facilitate germination and growth of vegetative cover. Apply seed and maintain seeded areas. Reseed areas where growth of temporary vegetative cover is inadequate to stabilize disturbed ground.

Apply permanent seed according to Sections 618 and 724, within the time periods allowed by the CGP and the Contract, at locations where seeding is indicated on the plans and after land-disturbing activity is permanently ceased.

Stream By Pass.

When installing a culvert or other drainage structure where stream bypass is not used, install temporary or permanent stabilization concurrently or immediately after placing the culvert or drainage structure in a manner that complies with the SWPPP, applicable project permits and prevents discharge of pollutants.

Install temporary and permanent stabilization:

- a. At the culvert or drainage structure inlet and outlet; and
- b. In the areas upstream and downstream that may be disturbed by the process of installing the culvert, culvert end walls, culvert end sections, or drainage structure.

Before deactivating a stream bypass or stream diversion used for construction of a bridge, culvert, or drainage structure, install permanent stabilization:

- a. At the inlet and outlet of the culvert, drainage structure, or bridge;
- b. In the area upstream and downstream of the culvert, drainage structure, or bridge, that is disturbed during installation or construction of the culvert, drainage structure, or bridge; and
- c. Under the bridge.

641-3.04 FAILURE TO PERFORM WORK. The Project Engineer has authority to suspend work and withhold monies, for an incident that may endanger health or the environment. If the suspension is to protect workers, the public, or the environment from imminent harm, the Project Engineer may orally order the suspension of work. Following

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an oral order of suspension, the Project Engineer will promptly give written notice of suspension. In other circumstances, the Project Engineer will give the Contractor written notice of suspension before suspension of work. A notice of suspension will state the defects or reasons for a suspension, the corrective actions required to stop suspension, and the time allowed to complete corrective actions.

1. If the Contractor fails to take the corrective action within the specified time, the Project Engineer may:
 - a. Suspend the work until corrective action is completed;
 - b. Withhold monies due the Contractor until corrective action is completed;
 - c. Assess damages or equitable adjustments against the Contract Amount; and
 - d. Employ others to perform the corrective action and deduct the cost from the Contract amount.

2. Reasons for the Project Engineer to take action under this section include, but are not limited to, the Contractor's failure to:
 - a. Obtain appropriate permits before Construction Activities occur;
 - b. Maintain effective BMPs to control erosion, sedimentation, and pollution in accordance with the ESCP and applicable local, state, and federal requirements;
 - c. Perform duties according to the requirements of this Section 641; or
 - d. Meet requirements of permits, laws, and regulations related to erosion, sediment, or pollution control.

No additional Contract time or additional compensation will be allowed due to delays caused by the Project Engineer's suspension of work under this subsection.

641-4.01 METHOD OF MEASUREMENT. Section 109.

641-5.01 BASIS OF PAYMENT. See Subsection 641-3.04 Failure to Perform Work, for additional work and payment requirements.

The total value of this Contract will be adjusted as specified herein. Withholding will be determined by the Department and assessed under Pay Item 641(6) SWPPP Price Adjustment, as follows:

1. Fines and Penalties: A Price adjustment equal to any penalties and fines levied against the Department by local, state, or federal agencies for pollutant violations, including violations of the CWA, except when due to Department negligence. An amount equal to the anticipated penalties and fines for the violation or violations, excluding any due to negligence by the Department, will be withheld until the actual cost of the penalties and fines is known. Anticipated penalties and fines will be determined by the Project Engineer. The Contractor is also responsible for the payment of penalties and fines levied against the Contractor.

2. Failure to perform Corrective Action. By each 24 hour period following 24 hours after written notice by the Project Engineer, per occurrence, a price adjustment of \$750 will be assessed where the Contractor:
- fails to initiate corrective action to respond to a deficiency noted by the Project Engineer.

The same deficiency remaining uncorrected will be considered an additional occurrence for each additional 24 hour period, without requiring additional written notice by the Project Engineer.

Item 641.0001.0000 Erosion, Sediment and Pollution Control Administration. At the Contract lump sum price for administration of all work under this Section. Includes, but is not limited to, ESCP and HMCP and SPCC Plan preparation and agency fees.

Work required by the HMCP and SPCC Plan including hazardous material storage, containment, removal, cleanup and disposal, are subsidiary to Pay Item 641.0001.0000 Erosion, Sediment and Pollution Control Administration.

Item 641.0005.0000 Temporary Erosion Sediment and Pollution Control by Directive. At the contingent sum prices specified in the Directive using time and materials to authorize the work, for all labor, supervision, materials, equipment, and incidentals to install, maintain, remove and dispose of temporary erosion, sedimentation, and pollution control BMPs. Prices for this item will be by time and materials according to Subsection 109-1.05, or by mutual agreement between the Project Engineer and Contractor. All additional Erosion, Sediment, and Pollution Control Administration necessary due to this item will not be paid for separately but will be subsidiary to other bid items.

Item 641.0006.0000 ESCP Price Adjustment. Withholding according to Section 641-3.04, equal to any penalties and fines levied against the Department by local, state, or federal agencies for pollutant violations, including violations of the CWA and any other Permit, except when due to the Department's sole negligence. The Contractor is also responsible for the payment of any and all penalties and fines levied against the Department or Contractor by entities (including agencies) other than the Department.

The Department will not release performance bonds until penalties and fines, assessed according to Section 641, are paid to the Department; and all requirements, according to Subsection 103-1.05, are satisfied.

Subsidiary Items. Temporary erosion, sediment, and pollution control measures that are required outside the Project Area are subsidiary. Work required by the HMCP and SPCC Plan including hazardous material storage, containment, removal, cleanup and disposal, are subsidiary to Item 641.0001.0000 Erosion, Sediment and Pollution Control Administration.

Work under other pay items. Work that is paid for directly or indirectly under other pay items will not be measured and paid for under Section 641. This work includes but is not limited to:

- a. Dewatering;
- b. Shoring;
- c. Bailing;
- d. Permanent seeding;
- e. Installation and removal of temporary work pads;
- f. Temporary accesses;
- g. Temporary drainage pipes and structures;
- h. Diversion channels;
- i. Settling impoundment; and
- j. Filtration.

Permanent erosion, sediment and pollution control measures will be measured and paid for under other Contract items, when shown on the bid schedule.

Work at the Contractor's Expense. Temporary erosion, sediment, and pollution control measures that are required due to carelessness, negligence, or failure to install temporary or permanent controls as scheduled or ordered by the Project Engineer, or for the Contractor's convenience, are at the Contractor's expense.

Payment will be made under:

PAY ITEM

Item Number	Item Description	Unit
641.0001.0000	Erosion, Sediment and Pollution Control Administration	Lump Sum
641.0005.0000	Temporary Erosion, Sediment and Pollution Control by Directive	Contingent Sum
641.0006.0000	ESCP Price Adjustment	Contingent Sum

(03/01/24)PARKS-Special Provision

**SECTION 642
CONSTRUCTION SURVEYING AND MONUMENTS**

Add the following:

642-3.06 AS-BUILT SURVEY. Perform all required as-built survey work to submit a trail map in accordance with the specifications defined in the Department of Natural Resources' *Minimum Mapping Requirements for Trail Location Maps on DNR Managed Land* for the constructed trail prior to the expiration of the ADL Land Entry Authorization 421608.

(03/01/24)PARKS-Special Provision

642-4.01 METHOD OF MEASUREMENT.

Add the following:

Item 642.0000.0000 As-Built Survey. As-Built Survey will not be measured separately for payment. Final acceptance of as-built drawings, and OPUS Solution report as required, by the Engineer will constitute method of measurement.

(03/01/24)PARKS-Special Provision

642-5.01 BASIS OF PAYMENT.

Add the following:

Item 642.0000.0000 As-Built Survey. Lump sum payment for Item 642.0000.0000 As-Built Survey shall be full compensation for all fieldwork, research, office work, and incidentals necessary to produce as-built drawings, signed and sealed, in conformance with these specifications and accepted by the Engineer.

Payment will be made under:

PAY ITEM		
Item Number	Item Description	Unit
642.0000.0000	As-Built Survey	LS

(03/01/24)PARKS-Special Provision

Replace Section 643 with the following:

SECTION 643 TRAFFIC MAINTENANCE

643-1.01 DESCRIPTION. Protect and control traffic during the contract. Furnish, erect, maintain, replace, clean, move and remove the traffic control devices required to ensure the safety of the park users and general public. Perform all administrative responsibilities necessary to implement the work.

643-1.02 DEFINITIONS.

Alaska Traffic Manual (ATM). The Manual on Uniform Traffic Control Devices (MUTCD) along with Alaska Supplement.

Traffic. The movement of the park users and general public through and around the project site. Traffic may consist of vehicles, pedestrians, and bicyclists.

Traffic Control Plan (TCP). A drawing or drawings indicating the method or scheme for safely guiding and protecting traffic and workers in a traffic control zone. The TCP depicts the traffic control devices and their placement and times of use.

Traffic Control Zone. A portion of the project that affects traffic and requires traffic control to safely guide and protect traffic and workers.

643-1.03 TRAFFIC CONTROL PLAN. Create and implement an approved TCP before beginning work within the project limits.

The TCP includes, but is not limited to, signs, barricades, traffic cones, plastic safety fence, and all other items required to direct traffic through or around the traffic control zone according to these Specifications and the ATM. Address in the TCPs placement of traffic control devices, including location, spacing, size, mounting height and type. Include code designation, size, and legend per the ATM and Alaska Sign Design Specifications (ASDS).

Submit new or modified TCPs to the Engineer for approval. Allow 1 week for the Engineer to review any TCP or each subsequent correction. You may change an approved TCP during construction provided you allow 48 hours for review and the Engineer approves the changes.

643-2.01 MATERIALS. Provide traffic control devices meeting the following requirements:

1. Signs. Use signs, including sign supports, that conform to Section 615, the ATM, and ASDS.

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2. Barricades and Vertical Panels. Use barricades and vertical panel supports that conform to the ATM. Use Type III Barricades at least 8 feet long. Use reflective sheeting that meet AASHTO M 268 Type II or III.
3. Warning Lights. Use Type A (low intensity flashing), Type B (high intensity flashing) or Type C (steady beam) warning lights that conform to the ATM.
4. Drums. Use plastic drums that conform to the requirements of the ATM. Use reflective sheeting that meets AASHTO M 268 Type II or III.
5. Traffic Cones and Tubular Markers. Use reflectorized traffic cones and tubular markers that conform to the requirements of the ATM. Use traffic cones and tubular markers at least 28 inches high. Use reflective sheeting that meets AASHTO M 268 Type II or III.
6. Plastic Safety Fence. Use 4 foot high construction orange fence manufactured by one of the following companies, or an approved equal:
 - a. "Safety Fence" by Jackson Safety, Inc., Manufacturing and Distribution Center, 5801 Safety Drive NE, Belmont, Michigan, 49306. Phone (800) 428-8185.
 - b. "Flexible Safety Fencing" by Carsonite Composites, LLC, 19845 U.S. Highway 76, Newberry, South Carolina, 29108. Phone (800) 648-7916.
 - c. "Reflective Fencing" by Plastic Safety Systems, Inc., 2444 Baldwin Road, Cleveland, Ohio 44104. Phone (800) 662-6338.

643-3.01 GENERAL CONSTRUCTION REQUIREMENTS. Keep the work, and portions of the project affected by the work, in good condition to accommodate traffic safely. Provide and maintain traffic control devices and services inside and outside the project limits, day and night, to guide traffic safely.

All trailhead and trail closures must be included in the Traffic Control Plan (TCP) and coordinated through the Project Engineer. Please give the Project Engineer 2 weeks notice prior to any closures.

Immediately notify the Engineer of any traffic related accident that occurs within the project limits as soon as you, an employee, or a subcontractor becomes aware of the accident

643-3.02 TRAFFIC CONTROL DEVICES. Before starting construction, erect permanent and temporary traffic control devices required by the approved TCPs. Use traffic control devices only when they are needed.

Use only one type of traffic control device in a continuous line of delineating devices.

Keep signs, drums, barricades, and other devices clean at all times. Immediately replace any devices provided under this Section that are lost, stolen, destroyed, inoperable or deemed unacceptable while used on the project.

Use only traffic control devices that meet the requirements of the "Acceptable" category in the American Traffic Safety Services Association (ATSSA) "Quality Guidelines for Temporary Traffic Control Devices".

643-3.03 AUTHORITY OF THE ENGINEER. When existing conditions adversely affect the public's safety or convenience, the Contractor will receive an oral notice. A written notice will follow the oral notice according to Subsection 105-1.01, Authority of the Engineer. The notice will state the defects, the corrective actions required, and the time required to complete such actions. If you fail to take corrective actions within the specified time, the Engineer will immediately close down the offending operations until you correct the defects. The Engineer may require outside forces to correct unsafe conditions. The cost of work by outside forces will be deducted from any monies due under the terms of this Contract.

643-4.01 METHOD OF MEASUREMENT. Item 643.0000.0000 Traffic Maintenance is a lump sum item and will not be measured directly for payment. The approved schedule of values and Engineer's approval shall constitute method of measurement.

643-5.01 BASIS OF PAYMENT. Item 643.0000.0000 Traffic Maintenance will be paid for at the contract lump sum price. Payment shall be full compensation for all the labor, equipment, material, and incidentals necessary to complete the work under this Section.

Payment will be made under:

PAY ITEM

Item Number	Item Description	Unit
643.0000.0000	Traffic Maintenance	LS

(03/01/24)PARKS-Special Provision

Add the following Section:

SECTION 647 EQUIPMENT RENTAL

647-1.01 DESCRIPTION. This item consists of furnishing construction equipment, operated, fueled, and maintained, on a rental basis for use in construction of extra or unanticipated work at the direction of the Engineer. Construction equipment is defined as that equipment actually used for performing the items of work specified and shall not include support equipment such as, but not limited to, hand tools, power tools, electric power generators, welders, small air compressors and other shop equipment needed for maintenance of the construction equipment.

The work is to be accomplished under the direction of the Engineer, and the Contractor's operations shall at all times be in accordance with the Engineer's instructions. These instructions by the Engineer shall be to the Contractor's supervisory personnel only, not to the operators or laborers. In no case shall these instructions by the Engineer be construed as making the Department liable for the Contractor's responsibility to prosecute the work in the safest and most expeditious manner.

647-2.01 EQUIPMENT FURNISHED. In the performance of this work, the Contractor shall furnish, operate, maintain, service, and repair equipment of the numbers, kinds, sizes, and capacities set forth on the Bid Schedule or as directed by the Engineer. The operation of equipment shall be by skilled, experienced operators familiar with the equipment.

The kinds, sizes, capacities, and other requirements set forth shall be understood to be minimum requirements. The number of pieces of equipment to be furnished and used shall be, as the Engineer considers necessary for economical and expeditious performance of the work. The equipment shall be used only at such times and places as the Engineer may direct.

Equipment shall be in first class working condition and capable of full output and production. The minimum ratings of various types of equipment shall be as manufactured and based on manufacturer's specifications. Alterations will not be considered acceptable in achieving the minimum rating. Equipment shall be replaced at any time when, in the opinion of the Engineer, their condition is below that normal for efficient output and production.

Equipment shall be fully operated, which shall be understood to include the operators, oilers, tenders, fuel, oil, air hose, lubrication, repairs, maintenance, insurance, and incidental items and expenses.

647-2.02 EQUIPMENT OPERATORS AND SUPERVISION PERSONNEL. Equipment operators shall be competent and experienced and shall be capable of operating the equipment to its capacity. Personnel furnished by the Contractor shall be, and shall remain during the work hereunder, employees solely of the Contractor.

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The Contractor shall furnish, without direct compensation, a job superintendent or Contractor's representative together with such other personnel as are needed for Union, State, or Federal requirements and in servicing, maintaining, repairing and caring for the equipment, tools, supplies, and materials provided by the Contractor and involved in the performance of the work. Also, the Contractor shall furnish, without direct compensation, such transportation as may be appropriate for the personnel.

647-3.01 CONSTRUCTION REQUIREMENTS. The performance of the work shall be according to the instructions of the Engineer, and with recognized standards and efficient methods.

The Contractor shall furnish equipment, tools, labor, and materials in the kinds, number, and at times directed by the Engineer and shall begin, continue, and stop any of the several operations involved in the work only as directed by the Engineer.

Normally, the work is to be done when weather conditions are reasonably favorable, 6 days per week, Mondays through Saturdays, except holidays.

The Engineer will begin recording time for payment each shift when the equipment begins work on the project. The serial number and brief description of each item of equipment listing in the bid schedule and the number of hours, or fractions thereof to the nearest one quarter hour, during which equipment is actively engaged in construction of the project shall be recorded by the Engineer. Each day's activity will be recorded on a separate sheet or sheets, which shall be verified and signed by the Contractor's representative at the end of each shift, and a copy will be provided to the Contractor's representative.

647-4.01 METHOD OF MEASUREMENT. Section 109.

Hourly Rental Rate: Includes the equipment rate plus the operating costs including: furnishing, travel time, operating, maintaining/servicing and repairing the equipment along with the costs incidental to the equipment and its' operation.

647-5.01 BASIS OF PAYMENT. Payment is for the time that fully operational equipment is engaged in the performance of the work directed by the Engineer. Time not paid for includes: idle periods, maintaining/servicing and repairing the equipment, making change-overs of equipment parts, and time to travel to and from the project. Payment will only be for time supported by certified payroll.

Furnishing and operating equipment that is heavier, has larger capacity, or greater power than specified will not entitle the Contractor to extra compensation.

PAY ITEM

Item Number	Item Description	Unit
647.0000.0000	Backhoe, 4WD, 1 CY Bucket, 75-HP Minimum	HOUR

**SECTION 703
AGGREGATES**

703-2.03 AGGREGATE FOR BASE AND SURFACE COURSE.

In Table 703-1 replace the line for Degradation Value with the following:

**TABLE 703-1
AGGREGATE QUALITY PROPERTIES FOR BASE AND SURFACE COURSE**

PROPERTY	BASE COURSE	SURFACE COURSE	TEST METHOD
Micro-Deval	15%, max.	15%, max.	AASHTO T 327

HSM20.40-050122

Replace Subsection 703-2.04 with the following:

703-2.04 AGGREGATE FOR HOT MIX ASPHALT. Process and crush aggregate that is free from clay balls, organic matter, other deleterious material, and not coated with dirt or other finely divided mineral matter. Aggregate used must consist of sound, tough, durable rock of uniform quality.

Remove all natural fines passing a No. 4 sieve before crushing aggregates for Type IV, and VH mixes.

Coarse Aggregate. Aggregate retained on the No. 4 Sieve.

Meet Table 703-3 requirements:

**TABLE 703-3
COARSE AGGREGATE QUALITY FOR HMA**

Description	Specificatio n	Type II, Class A	Type I; Type II, Class B; Type III	Type IV	Type VH
LA Wear, % max.	AASHTO T 96	45	45	45	45
Micro-Deval, % max.	AASHTO T 327	18	18	18	18
Sodium Sulfate Loss, % max. (5 cycles)	AASHTO T 104	9	9	9	9
Fracture, % min.	ATM 305	90, 2 face	80, 1 face	90, 2 face	98, 2 face

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Flat-Elongated Pieces, % max.	ATM 306				
1:5		8	8	8	8
Absorption, % max.	ATM 308	2.0	2.0	2.0	2.0
Nordic Abrasion, % max.	ATM 312	-	-	-	8 ^a

a. Hard Aggregate that meets the Nordic Abrasion values specified may be obtained from, but not limited to, the following sources:

- MS 52-068-2, located at MP 217 on the Parks Highway near Cantwell
- Alaska Lime Co, Jim Caswell, located at MP 216.5 on the Parks Highway near Cantwell
- CalPortland plants located in Dupont Washington
- Jack Cewe Ltd located in Coquitlam British Columbia, Canada

Fine Aggregate. Aggregate passing the No. 4 sieve.

Aggregate shall meet the quality requirements of AASHTO M 29, including S1.1, Sulfate Soundness.

Aggregate for Type II, Class A mix shall not contain more than 10% natural fines (blend sand and mineral filler) added to the crushed aggregate, and shall not exhibit rut depth larger than 1/4-inch, as determined by ATM 419.

Fine aggregate for Type IV and VH mixes:

- do not blend back natural sand
- shall be non-plastic as determined by ATM 205
- shall have a minimum uncompacted void content (Fine Aggregate Angularity) determined by AASHTO T 304, Method A, of 45%

**TABLE 703-4
BROAD BAND GRADATIONS FOR HOT MIX ASPHALT AGGREGATE**
Percent Passing by Weight

SIEVE	GRADATION				
	Type I	Type II	Type III	Type IV	Type VH
1 inch	100	-	-	-	-
3/4 inch	80-90	100	-	-	100
1/2 inch	60-84	77-99	100	100	65-90
3/8 inch	48-78	68-88	80-90	80-95	55-80
No. 4	28-63	48-68	44-81	55-70	40-60
No. 8	14-55	33-53	26-70	35-50	≤ 45

No. 16	9-44	20-40	16-59	20-40	≤ 35
No. 30	6-34	14-30	9-49	15-30	≤ 25
No. 50	5-24	9-21	6-36	10-24	≤ 20
No. 100	4-16	6-16	4-22	5-15	≤ 12
No. 200	4-7	3-6	4-7	4-7	4-7

CR703.1-050122

703-2.07 SELECTED MATERIAL.

Replace 1. Type A with the following:

1. Type A. Aggregate containing no muck, frozen material, roots, sod or other deleterious matter and with a plasticity index not greater than 6 as tested by ATM 204 and ATM 205. Meet the following gradation as tested by ATM 304:

<u>Sieve</u>	<u>Percent Passing by Weight</u>
No. 4	20-55%
No. 200	0-6%, determined on the minus 3-inch portion of the sample

CR703.1-050122

703-2.10 POROUS BACKFILL MATERIAL.

Add the following to the end of the paragraph:

Use Gradation A unless otherwise specified.

HSM20.33-123121

703-2.13 STRUCTURAL FILL. Replace Table 703-12 with the following:

**TABLE 703-12
AGGREGATE GRADATION FOR STRUCTURAL FILL**

SIEVE	PERCENT PASSING BY WEIGHT
3-inch	100
3/4-inch	75-100
No. 4	20-55
No. 200	0-6

Replace Subsection 703-2.16 with the following:

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703-2.16 RECYCLED ASPHALT PAVEMENT (RAP). RAP shall be free of contamination and deleterious materials. RAP maximum particle size shall not exceed 1.5-inch.

CR703.1-050122

Replace Section 724 with the following:

SECTION 724 SEED

724-2.01 DESCRIPTION. Grass seed to provide a living vegetative cover.

724-2.02 MATERIALS. Provide seed mix as specified in the Special Provisions. Provide seed collected or harvested within 2 years of the targeted seeding date. Provide all seed in pure live seed (PLS) unless otherwise directed.

Furnish seed true of genus and species. Meet applicable requirements of the State of Alaska *Seed Regulations*, Alaska Administrative Code, Title 11, Chapter 34, (11 AAC 34), and the Federal Seed Act, 7 CFR Part 201.

The Engineer will review requests for genus, species, or cultivar substitutions(s). The Contractor shall submit a proposed seed mix accompanied by approval from the Alaska Plant Materials Center, and confirmation the vendor can provide the requested mix in quantities adequate for the project.

1. Prohibited and Restricted Noxious Weeds and Quarantined Pests. Furnish seed certified to be free of prohibited noxious weeds or quarantined pests, and certified to contain no more than the maximum allowable tolerances for restricted noxious weeds, according to 11 ACC 34.
 - a. Seed found to contain prohibited noxious weeds or quarantined pests will be rejected, according to 11 AAC 34.020(a) and 11 AAC 34.105 through 34.180, respectively.
 - b. Seed found to contain restricted noxious weed seed in excess of the maximum allowable tolerance per pound will be rejected, according to 11 AAC 34.020(b).

Prohibited and restricted noxious weeds are listed in 11 AAC 34.020, and can be viewed at the following URL: <http://plants.alaska.gov/invasives/noxious-weeds.htm>.

2. Labeling. Ensure each bag or container of individual seed species is labeled to meet requirements of 11 AAC 34.010. Do not remove labels from bags or containers.
3. Certification. Certify seed is free of prohibited noxious weeds and restricted noxious weeds are within allowable tolerances. Furnish to the Engineer a statement signed by the vendor identifying the lot number or lot numbers, certifying each lot of seed has been tested within the preceding nine months, by a recognized seed testing laboratory, a member of the Association of Official Seed Certifying Agency (AOSCA), or the Alaska Plant Materials Center.

Seed will be rejected if:

- a. Contains prohibited noxious weeds;
- b. Contains restricted noxious weeds above maximum allowable tolerances;
- c. Not certified as tested within the preceding nine months;
- d. Wet, moldy, or otherwise damaged in transit or storage; or
- e. Containers do not have labels or the labels have been removed.

Seed may be rejected for:

- a. Discrepancies in the lot numbers listed on the statement to the lot numbers indicated on the labels of the seed containers.

The Contractor shall immediately remove rejected seed from the project premises. If seed is rejected for containing prohibited noxious weeds or for exceeding maximum allowable tolerances of restricted noxious weeds, dispose of rejected seed according to 11 AAC 34.075(g).

CR724-113020

Replace Section 726 with the following:

**SECTION 726
TOPSOIL**

726-2.01 TOPSOIL. Furnish topsoil that is representative of the existing, natural organic blanket of the project area, and free of prohibited and restricted noxious weeds (Prohibited and Restricted Noxious Weeds 11AAC 34.020 <http://plants.alaska.gov/invasives/noxious-weeds.htm>). Perform a quality test, as defined by ATM 203, on the soil to determine the organic content of the soil. Supply the results to the Engineer.

Soil with an organic content of 5 percent or more may be reused and spread on the finished slopes where topsoil is noted on the plans. Remove roots, stumps, unnatural material, and rocks greater than 3 inch in diameter from the organic material before it is graded onto the finished slope.

Soil with an organic content of less than 5 percent cannot be used as topsoil for the project. In this case furnish topsoil consisting of a natural friable surface soil without admixtures of undesirable subsoil, refuse or foreign materials having an organic content of 5 percent or more, as determined by ATM 203. The material shall be reasonably free from roots, clods, hard clay, rocks greater than 3 inches in diameter, noxious weeds, tall grass, brush, sticks, stubble or other litter, and shall be free draining and nontoxic. Notify the Engineer of the topsoil source location at least 30 calendar days before delivery of topsoil to the project from the identified location. The Engineer will inspect the topsoil and its sources before approval will be granted for its use.

**TABLE 726-1
LIMESTONE REQUIREMENTS**

Soil pH	Limestone, tons/acre
Above 6.0	0
5.0-6.0	1.5
Below 5.0	3.0

CR726-20.0101R

**SECTION 730
SIGN MATERIALS**

730-2.04 SIGN POSTS.

Add No. 7:

7. Structural Tubing and W-Shape Beams.

- a. Structural tubing shall conform to ASTM A500, Grade B, or ASTM A501. The tubing shall be square and of the dimensions called for in the Plans with 0.2 inch thick walls. 0.4 inch diameter holes shall be drilled as required to permit mounting of the sign.
- b. W-shape beams shall conform to ASTM A36.
- c. Structural tubing and W-shape beams shall be hot dip galvanized according to 1.b. of this subsection. Damaged and abraded tubes and beams shall be repaired according to 1.c. of this subsection.

CR730.1-062204

Replace Subsection 730-2.05 with the following:

730-2.05 FLEXIBLE DELINEATOR POSTS. Durable fiberglass composite, polymer, or plastic material meeting the dimensions and colors shown on the Plans. Resistant to ultraviolet light, ozone and hydrocarbon damage and remain flexible at a temperature of minus 40 °F. Provide posts with reflectors that are capable of self-erecting and remaining serviceable after 5 head-on impacts at 55 mph and 10 impacts at 35 mph with an automobile at an air temperature of plus 40 °F.

Terminal Markers - Flexible (marker). The marker includes the pole/post/rod (pole), reflective and retroreflective sheeting and mounting hardware.

Provide durable markers: resistant to impact from (snow and vehicle), vandals, ultraviolet light, moisture, ozone, and hydrocarbons.

When the pole is loaded, the marker shall bend/flex, remain flexible and oriented as installed continuing to function as designed without permanent displacement along the length of the member. Provide the flexibility in the primary vertical element, a connecting device between the vertical element and connection to the support member (spring or other) or a combination.

Provide a connection sufficient to transfer the loads from the pole to the supporting member without reducing the strength, flexibility, or durability of either. The connection shall not negatively influence the performance of the guardrail. Provide approval of the

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connection from the marker manufacturer and support member manufacturer (if proprietary).

- Design Loads:
 - Impact load from snow thrown by snowplows
 - Weight of snow covering the pole (snow thrown from snowplows)
 - Wind loads (100 mph, 3 sec gust)
- Service Temperature Range: -40° F to +140° F.
- Pole:
 1. Material:
 - Steel, or
 - Stainless Steel, or
 - Other Poles:
 - (a) Continuous glass fiber and marble reinforced thermosetting composite, or
 - (b) Engineered plastic alloy, or
 - (c) Fiberglass Reinforced Polyester (FRP)
 - (d) High-Impact Polyolefins
 2. Dimensions
 - Top of Pole: 60 inches to 84 inches above top of guardrail
 - Width/Diameter: minimum = 1 1/4 inches, maximum = 2 inches (steel/stainless steel not be greater than 5/8 inch diameter)
 - Thickness: as required by design
 3. Visibility:
 - Daytime: Pole - color orange
 - a. Steel and Stainless Steel Poles: Applied permanent finish.
 - b. Other Poles: Color pigment ultraviolet stabilized and solid through the cross section from end to end.
 - Nighttime: Added retroreflective sheeting - color white
 - a. Approximately 12 square inches visible from the traveled way before and after the marker. Applied to a flag attached to the pole or as banding applied directly to the pole. (A flag is required when using steel/stainless steel poles.)
 - b. Place top edge of flag/banding 1 inch from top of pole.
 - (1) Flag: Single retroreflective sheet each face

(2) Banding: Two bands completely around marker, 4 inches between bands

- Hardware and Fasteners:
 - Steel, and/or
 - Stainless Steel, or
 - Aluminum alloy (hardware only)

Manufacturers of flexible markers (snowpoles):

Manufacturer	Model	Type	Contact
Nordic Fiberglass, Inc.	FF2	Steel Pole w/ Flag	Ph: (218) 745-5095
PEXCO	Model 3639	High-Impact Polyolefins	Ph: (404) 564-8560
New Century Northwest, LLC	NCN2549	Engineered Plastic Alloy	Ph: (541) 485-5566
Carsonite Composites, LLC	SNFB	Continuous glass fiber and marble reinforced thermosetting composite	Ph: (800) 648-7916

Submit manufacturer's specifications to the Engineer for review and approval before ordering terminal markers.

CR730.2-122217

APPENDIX A

PERMITS

PERMIT DESCRIPTION	ISSUE DATE	EXPIRE DATE
Entry Authorization ADL#: 421608 Department of Natural Resources	10/15/2025	02/24/2028
State Historic Preservation Officer Section 106 Review Short Report # 24-02	2/18/2025	N/A



Entry Authorization

ADL 421608

Denali Borough, herein known as the Grantee, is issued this Entry Authorization authorizing the use of state land within:

Fairbanks Meridian, Township 13 South, Range 8 West, Sections 1 & 12.

This Entry Authorization is issued for the purpose of authorizing the following:

The construction and maintenance of a non-motorized trail.

This authorization is effective beginning 2/25/22 and ending 2/24/25 unless sooner terminated.

All activities shall be conducted in accordance with the following stipulations:

- 1. Authorized Officer:** The Authorized Officer (AO) for the State of Alaska (State), Department of Natural Resources (DNR), Division of Mining, Land and Water (DMLW), is the Regional Manager or designee.
- 2. Change of Contact Information:** The Grantee shall maintain current contact information with the AO. Any change of contact information must be submitted in writing to the AO.
- 3. Proper Location:** This authorization is for activities on state lands or interests managed by DMLW. It does not authorize any activities on private, federal, native, and municipal lands, or lands which are owned or solely managed by other offices and agencies of the State. The Grantee is responsible for proper location within the authorized area.
- 4. Development Plan:** Development shall be limited to the authorized area, improvements, and maintenance activities specified in the approved development plan or subsequent modifications approved by the AO. The Grantee is responsible for accurately siting development and operations within the authorized area. Any proposed revisions to the development plan must be approved in writing by the AO before the change in use or development occurs.
- 5. Directives:** Directives may be issued for corrective actions that are required to correct a deviation from design criteria, project specifications, stipulations, State statutes or regulations. Work at the area subject to the Directive may continue while implementing the

corrective action. Corrective action may include halting or avoiding specific conduct, implementing alternative measures, repairing any damage to state resources that may have resulted from the conduct, or other action as determined by DNR.

6. **Violations:** This authorization may be revoked upon violation of any of its terms, conditions, stipulations, nonpayment of fees, or upon failure to comply with any other applicable laws, statutes and regulations. A revocation may not become effective until 60 days after the Grantee has been notified in writing of the violation during which time the Grantee has an opportunity to cure any such violation.

No public access easement may be terminated without the prior written approval of DMLW.

7. **Public Access:** The construction, operation, use, and maintenance of the authorized area shall not interfere with public use of roads, trails, waters, landing areas, and public access easements. The ability to use or access state land or public waters may not be restricted in any manner. However, if a specific activity poses a safety concern, the AO may allow the restriction of public access for a specific period of time. The Grantee is required to contact the AO in advance for approval. No restriction is allowed unless specifically authorized in writing by the AO.
8. **Public Trust Doctrine:** The Public Trust Doctrine guarantees public access to, and the public right to use, navigable and public waters and the land beneath them for navigation, commerce, fishing, and other purposes. This authorization is subject to the principles of the Public Trust Doctrine regarding navigable or public waters. The AO reserves the right to grant other interests consistent with the Public Trust Doctrine.
9. **Valid Existing Rights:** This authorization is subject to all valid existing rights and reservations in and to the authorized area. The State makes no representations or warranties, whatsoever, either expressed or implied, as to the existence, number, or nature of such valid existing rights.
10. **Site Maintenance:** The authorized area shall be maintained in a neat, clean, and safe condition, free of any solid waste, debris, or litter, except as specifically authorized herein. Nothing may be stored that would be an attractive nuisance to wildlife or create a potentially hazardous situation.
11. **Maintenance of Improvements:** The Grantor is not responsible for maintenance of authorized improvements or liable for injuries or damages related to those improvements. No action or inaction of the Grantor is to be construed as assumption of responsibility.
12. **Removal of Improvements and Site Restoration:** Upon termination of this authorization, whether by abandonment, revocation or any other means, the Grantee shall within 30 days remove all improvements from the area herein granted, except those owned by the State, and the site shall be restored to a condition acceptable to the AO. Should the Grantee fail or refuse to remove said structures or improvements within the time allotted, they shall revert to and become the property of the State; however, the Grantee shall not be relieved of the cost of the removal of the structures, improvements and/or the cost of restoring the area.

- 13. Amendment or Modification:** The Grantee may request an amendment or modification of this authorization; the Grantee's request must be in writing. Any amendment or modification must be approved by the AO in advance and may require additional fees and changes to the terms of this authorization.
- 14. Concurrent Use:** The DMLW reserves the right to grant additional authorizations to third parties for compatible uses on or adjacent to the land under this authorization. Authorized concurrent users of State land, their agents, employees, contractors, subcontractors, and licensees shall not interfere with the operation or maintenance activities of each user. The DMLW may require authorized concurrent users of State land to enter into an equitable agreement regarding concurrent use.
- 15. Assignment:** This authorization may not be transferred or assigned without the prior written consent of the AO. The grantor reserves the right to modify and/or add stipulations for the authorization prior to approving the assignment.

Assignment: In the event the grantee desires to transfer their interest in this authorization to another party the grantee shall submit in writing to the AO a request for assignment. The grantor reserves the right to modify and/or add stipulations for the authorization prior to approving the assignment. The grantor reserves the right to require an assignment between the grantee and another party in the event of a change in corporate ownership, LLC/LLP membership or name change. Notwithstanding other requirements described in this authorization, assignments shall be restricted to those entities that are also eligible to obtain an authorization under the same statutory authority in which this authorization was issued.

- 16. Request for Information:** The AO, at any time, may require the Grantee to provide any information directly or indirectly related to this authorization, in a manner prescribed by the AO.
- 17. Inspections:** The AO shall have reasonable access to the authorized area for inspection, which may be conducted without prior notice. If the Grantee is found to be in noncompliance the authorized area may be subject to reinspection. The Grantee may be charged for actual expenses of any inspection.
- 18. Waste Disposal:** On-site refuse disposal is prohibited, unless specifically authorized. All waste generated during operation, maintenance, and termination activities under this authorization shall be removed and disposed of at an off-site DEC approved disposal facility. Waste, in this paragraph, means all discarded matter, including but not limited to human waste, trash, garbage, refuse, oil drums, petroleum products, ashes and discarded equipment.
- 19. Site Disturbance:** Site disturbance shall be kept to a minimum to protect local habitats. All activities at the site shall be conducted in a manner that will minimize the disturbance of soil and vegetation and changes in the character of natural drainage systems. Brush clearing is allowed but shall be kept to the minimum necessary to conduct or complete the authorized activity. Removal or destruction of the vegetative mat outside of the authorized area is not allowed. The Grantee shall conduct all operations in a manner which will prevent unwarranted pollution, erosion, and siltation. Any pollution, erosion, or siltation shall be

repaired/remediated in a manner and time frame satisfactory to the AO at the Grantee's expense.

- 20. Ground Disturbance and Repair:** Grantee will refill holes, trenches and surface depressions resulting from development or maintenance activities with sand, gravel, native materials, or a substitute approved by the AO. Surface areas will be recontoured to the satisfaction of the AO so that they do not pose a threat to human safety or wildlife transit.
- 21. Destruction of Markers:** The Grantee shall protect all survey monuments, witness corners, reference monuments, mining claim posts, bearing trees, and unsurveyed corner posts against damage, destruction, or obliteration. The Grantee shall notify the AO of any damaged, destroyed, or obliterated markers and shall reestablish the markers at the Grantee's expense in accordance with accepted survey practices of the DMLW.
- 22. Fuel and Hazardous Substances:** No fuel or hazardous substances are to be stored on state land. Prior written approval from the AO is required for a change in this restriction and may include additional stipulations and/or a change in the amount required for the performance guaranty.
- 23. Performance Guaranty:** The requirement of a performance guaranty for this authorization is met by the self bonding of the Grantee, who is a municipality. The provisions of this authorization shall not prejudice the State's right to obtain remedy under any law or regulation.
- 24. Incurred Expenses:** The Grantor shall in no way be held liable for expenses incurred by the Grantee connected with the activities directly or indirectly related to this authorization.
- 25. In Lieu of Indemnification:** In connection with the entry on or use of assigned lands, subject to the limitations and provisions of AS 09.50.250-.270 and AS 37.05.170, the Grantee shall ensure that its contractors and subcontractors shall indemnify, save harmless, and defend the State, its agents and its employees from any and all claims or actions for injuries or damages sustained by any person or property arising directly or indirectly from the construction or the contractor's performance of the contract, except when the proximate cause of the injury or damage is the State's sole negligence.
- 26. Preference Right:** No preference right for subsequent authorizations is granted or implied by this authorization.
- 27. Alaska Historic Preservation Act:** The Alaska Historic Preservation Act, AS 41.35.200, prohibits the appropriation, excavation, removal, injury, or destruction of any state owned historic, prehistoric, archaeological or paleontological site without written approval from the DNR Commissioner. Should any sites be discovered, the Grantee shall cease any activities that may cause damage and immediately contact the AO and the Office of History and Archaeology in the Division of Parks and Recreation.
- 28. Compliance with Government Requirements:** The Grantee shall, at its expense, comply with all federal, state, and local laws, regulations, and ordinances directly or indirectly related to this authorization. The Grantee shall ensure compliance by its employees, agents, contractors, subcontractors, licensees, or invitees.

- 29. Waiver of Forbearance:** Any failure on the part of the AO to enforce the terms of this authorization, or the waiver of any right under this authorization by the Grantee, unless in writing, shall not discharge or invalidate the authorization of such terms. No forbearance or written waiver affects the right of the AO to enforce any terms in the event of any subsequent violations of terms of this authorization.
- 30. Severability Clause:** If any clause or provision of this authorization is, in a final judicial proceeding, determined illegal, invalid, or unenforceable under present or future laws, then the Grantor and the Grantee agree that the remainder of this authorization will not be affected, and in lieu of each clause or provision of this authorization that is illegal, invalid, or unenforceable, there will be added as a part of this authorization a clause or provision as similar in terms to the illegal, invalid, or unenforceable clause or provision as may be possible, legal, valid, and enforceable.
- 31. Fire Prevention, Protection and Liability:** The Grantee shall take all reasonable precautions to prevent and suppress forest, structure, brush and grass fires, and shall assume full liability for any damage to state land and structures resulting from the negligent use of fire. The State is not liable for damage to the Grantee's personal property and is not responsible for forest fire protection of the Grantee's activity. To report a wildfire, call 911 or 1-800-237-3633.
- 32. Annual Report:** An annual report shall be submitted by December 15 of each year outlining work completed that year, work to be completed next year, and anticipated construction completion timeframe.
- 33. Notification of Discharge:** The Grantee shall immediately notify the Department of Environmental Conservation (DEC) and AO of any unauthorized discharge of oil to water, any discharge of hazardous substances (other than oil), and any discharge of oil greater than 55 gallons on land. All fires and explosions must also be reported immediately.

If a discharge, including a cumulative discharge, of oil is greater than 10 gallons but less than 55 gallons, or a discharge of oil greater than 55 gallons is made to an impermeable secondary containment area, the Grantee shall report the discharge within 48 hours. Any discharge of oil greater than one gallon up to 10 gallons, including a cumulative discharge, solely to land, must be reported in writing on a monthly basis.

Notification of discharge during normal business hours must be made to the nearest DEC Area Response Team: Anchorage (907) 269-3063, fax (907) 269-7648; Fairbanks (907) 451-2121, fax (907) 451-2362; Juneau (907) 465-5340, fax (907) 465-5245. To report a spill outside of normal business hours, call toll free 1-800-478-9300 or international 1-907-269-0667.

Notification of discharge must be made to the appropriate DNR Office, preferably by e-mail: Anchorage email dnr.scro.spill@alaska.gov, (907) 269-8528; Fairbanks email dnr.nro.spill@alaska.gov, (907) 451-2739; Juneau email sero@alaska.gov, (907) 465-3513. The Grantee shall supply the AO with all incident reports submitted to DEC.

- 34. Extensions:** The AO may approve a written request to extend this authorization if additional time is necessary to meet its requirements. The written request must certify that there have

been no changes to the approved development plan and be received at least 30 days before the expiration date of this authorization. Additional fees may be required.

35. Storage of Equipment: Storing any materials or supplies after the dates of authorized use is specifically prohibited.

36. Survey: The Grantee shall submit a trail location map according the specifications defined in the DNR's Minimum Mapping Requirements for Trail Location Maps on DNR Managed Land for the constructed trail prior to the expiration of this Entry Authorization.

37. Operation of Vehicles: The Grantee or entry person must obtain an authorization from the DNR, Division of Mining, Land and Water for any vehicular travel that exceeds the Generally Allowed Uses of State Land (11 AAC 96.020).

38. Signs: Trail signs may be posted within the easement corridor only.

Any correspondence on this authorization may be directed to the Department of Natural Resources, Division of Mining, Land and Water, Northern Regional Lands Office, 3700 Airport Way, Fairbanks, Alaska, 99709, (907) 451-2740.

I have read and understand all of the foregoing and attached stipulations. By signing this authorization, I agree to conduct the authorized activity in accordance with the terms and conditions of this authorization.

[Handwritten Signature] Denali Borough Mayor 1/12/2022
Signature of Grantee or Authorized Representative Title Date

P.O. Box 480 Healy AK 99743
Grantee's Address City State Zip

TERESA FLOBERG 907-683-1330
Contact Person Home Phone Work Phone

[Handwritten Signature] NATURAL RESOURCE SPECIALIST 2/25/22
Signature of Authorized State Representative Title Date



THE STATE
of **ALASKA**
GOVERNOR MIKE DUNLEAVY

Department of Natural Resources

DIVISION OF MINING, LAND & WATER
Northern Regional Land Office

3700 Airport Way
Fairbanks, Alaska 99709-4699
Main: 907-451.2740
TTY: 711 or 800-770-8973
Fax: 907-451-2751

October 15, 2025

Denali Borough
PO Box 480
Healy, AK 99743
RE: ADL 421608 - Entry Authorization Extension

Dear Stephanie,

Per your request the Entry Authorization authorizing the use of state land within Fairbanks Meridian, Township 13 South, Range 8 West, Sections 1 & 12, for the construction and maintenance of a non-motorized trail has been extended until February 24, 2028.

Sincerely,

A handwritten signature in cursive script that reads "David Hite".

David Hite
Natural Resource Specialist



STATE OF ALASKA
 DEPARTMENT OF TRANSPORTATION
 AND PUBLIC FACILITIES
**APPLICATION FOR TEMPORARY
 CONSTRUCTION PERMIT
 (Property Management)**

RECEIVED _____

\$200 Application Fee See attached instructions and other information, including applicable regulations.

Please Print or Type

<input checked="" type="checkbox"/> Governmental Agency		<input type="checkbox"/> Business	<input type="checkbox"/> Private
Applicant Name: Katie Winter on behalf of Denali Borough		Phone: 907-269-6410	
E-mail Address: katie.winter@alaska.gov			
Business / Organization Name: ADNR/Division of Parks and Outdoor Recreation		Phone: 907-269-6410	
Email Address:		Business License #:	
Physical Address (include City and Zip Code):		<input checked="" type="checkbox"/> Business	<input type="checkbox"/> Private
550 W. 7th Ave, Suite 1340, Anchorage, AK 99501			
Legal description of adjoining property (attach separate sheet if necessary): DENALI BOROUGH MUNICIPAL ENTITLEMENT ADL 415636			
Assessor's tax identification number for adjoining property: ADL 415636			
Do you own the property adjoining the right-of-way? <input checked="" type="checkbox"/> Own <input type="checkbox"/> Lease (if lease, provide name & complete mailing address of landowner in this box.) The property is owned by the Denali Borough			
Denali Borough Attn: Teresa Floberg		P.O. Box 480 Healy, AK 99743	
Location of Proposed Permit Area (road name, milepost, nearest cross street, etc. and attach site plan showing location of proposed permit area): Mile 245 Parks Hwy, near Healy, Alaska			
Proposed Dates and Times Work to be Performed: Summer 2023 or 2024, depending on acquisition of materials			
Proposed use of right-of-way (Detailed Description of work or activities to be performed including placing fill, grading, digging, equipment to enter/drive through, what improvements will be placed/removed from the right of way, etc.): Placing and grading fill for access path to toilet adjacent to ROW, placement of permanent culvert			
Attach any pertinent permits, letters of non-objection, or traffic control plans necessary to perform the work n/a		How many feet from the edge of the pavement will the proposed work area be located? 0 feet	
Applicant's Certification			
I certify that the above information and attachments are true and correct. The undersigned agrees and understands that a TCP can be denied or a bond required, and that, if permitted, the work will be done in accordance with AKDOT&PF rules and regulations, and be subject to final inspection and approval.			
Applicant Signature: <u>Katryn Winter</u>		Date: <u>4/6/23</u>	

INSTRUCTIONS AND OTHER INFORMATION

- **Temporary Construction Permit (TCP) General Information**

A Temporary Construction Permit (TCP) may be used when needing to enter onto State highway right of way for a temporary, short term, time period, for such temporary uses such as crossing the right of way, temporary access to adjoining property, utility work, etc.

- **Request for a TCP**

A request for a TCP must include a \$200 nonrefundable processing fee, a complete application and any traffic control plans, or permits provided from other agencies (i.e., utility permits). At no expense to the State, the Permittee shall secure and keep in force during the term of this Permit adequate Commercial General Liability insurance in the amount of \$1 Million to protect both the State and the Permittee against comprehensive public liability and property damage. Where specific limits are set, it is understood that they shall be the minimum acceptable limits. If the Permittee's policy contains higher limits the State shall be entitled to coverage to the extent of the higher limits. All insurance provided by the Permittee under this provision shall be endorsed to name the State of Alaska as an additional insured, to waive subrogation against the State of Alaska, and to provide that such insurance shall not be cancelled without at least thirty (30) day written notice to the State. Before occupation of the Permit Area, the Permittee shall provide to the State a certificate of insurance showing the coverage provided. The Permittee agrees to provide a copy of any insurance policy to the State upon request. Please provide or attach any information which is pertinent to the work to be performed in the right of way.

Before any filling activities take place within the right of way, or on the property adjacent to the right of way affected by this application, please contact the U.S. Army Corps of Engineers (USACE) to see if any further authorization is necessary. Placement of fill material in waters of the U.S., including wetlands and streams, requires prior authorization in most cases. You can reach the USACE at - Anchorage: (907) 753-2712, Fax: (907) 753-5567 Toll Free 1-800-478-2712; Fairbanks: (907) 474-2166, Fax: (907) 474-2164; Juneau: (907) 790-4490, Fax: (907) 790-4499; Kenai: (907) 283-3519, Fax: (907) 283-3981. The website is <http://www.poa.usace.army.mil/reg>

Please mail or take your application to:

<p>Southeast Region Mailing Address:</p> <p>DOT&PF ROW 6860 Glacier Hwy Juneau AK 99801-7909</p> <p>Voice: (907) 465-4540 or 1-800-575-4540 Fax: (907) 465-3506 TDD: (907) 465-4410</p>	<p>Central Region Mailing Address:</p> <p>DOT&PF ROW PO Box 196900 Anchorage AK 99519-6900</p> <p>Voice: (907) 269-0700 or 1-800-770-5263 Fax: (907) 269-0828 TDD: (907) 269-0473</p>	<p>Northern Region Mailing Address:</p> <p>DOT&PF ROW 2301 Peger Road Fairbanks AK 99709-5316</p> <p>Voice: (907) 451-5400 or 1-800-475-2464 Fax: (907) 451-5411 TDD: (907) 451-2363</p>
<p>Southeast Region Physical Address:</p> <p>DOT&PF ROW 6860 Glacier Hwy Juneau AK 99801-7909</p>	<p>Central Region Physical Address:</p> <p>DOT&PF ROW 4111 Aviation Drive Anchorage AK 99502-1058</p>	<p>Northern Region Physical Address:</p> <p>DOT&PF ROW 2720 Picket Place Fairbanks AK 99709</p>

State of Alaska
Department of Natural Resources
Office of History and Archaeology
Survey Unit

Antler Ridge Archaeological Survey Report, Denali Borough,
Alaska



OHA Short Report # 24-02

OHASU Project # OHASU_06_24

Antler Ridge Archaeological Survey Report, Denali Borough, Alaska.

2025

Prepared By:

Katie Ollesch, Archaeologist

Adam Brinkman, M.A. Archaeologist - Survey Unit Manager

Department of Natural Resources

Office of History and Archaeology

OHASU Project # OHASU_06_24

OHA Short Report # 24-02

Atwood Building

550 West 7th Ave

Suite 1310

Anchorage, AK, 99501

2025

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Executive Summary

In August 2024, the State of Alaska's Office of History and Archaeology Survey Unit conducted a cultural resource survey for the Antler Ridge-Bison Gulch Parking Area and Trail Enhancement Project Phase II. The purpose of this survey was to fulfill the inventory requirements of Section 106 (36 CFR § 800.4, as amended) of the National Historic Preservation Act (NHPA) and the Alaska Historic Preservation Act (Sec 41.35.070). This report describes the survey and the findings.

The survey found two cultural resources within the survey area of potential effect (APE). The survey APE was defined as a 20-meter area on each side of the center line. Neither resource are recommended eligible for the National Register of Historic Places.

HEA-00840 (24AR01) - A potential rock lined tent-ring on a bluff overlooking a river.

24AR02 – The remains of an historic game trap.

The potential rock lined tent-ring is just outside the project area of potential effect (APE), but trail builders should avoid the area to minimize any potential impacts. This archaeological survey did not otherwise identify significant cultural resources within the project's APE.

Introduction

Between August 12-14, 2024, the State of Alaska (SOA) Department of Natural Resources (DNR), Office of History and Archaeology (OHA) Survey Unit, conducted a cultural resource survey in the Denali Borough for the Antler Ridge-Bison Gulch Parking Area and Trail Enhancement Project Phase II (henceforth known as the Antler Ridge Trail Project). This report is the product of this cultural resources survey.

The project is spearheaded by the Denali Borough and the State of Alaska (SOA) Division of Parks and Recreation (DPOR) with funding provided by a Federal Highways Administration (FHWA) grant. As a federally funded initiative, the project must comply with the requirements of Section 106 of the National Historic Preservation Act (NHPA) (36 CFR § 800.4, as amended). Since Antler Ridge is located on SOA-owned land, it is also governed by the Alaska Historic Preservation Act (AHPA), Sec. 41.35.070.

The overall goal of the archaeological survey is to identify significant past evidence of cultural resources in the areas that could be impacted by potential future development; this inventory is Step Two in fulfilling obligations of Section 106 of the NHPA [36 CFR § 800.4] as well as the inventory obligations of the Alaska Historic Preservation Act [AS 41.35]. This cultural resource survey consisted of a pedestrian survey with subsurface testing, NRHP evaluation of identified properties within the Area of Potential Effects (APE), and this final report. The Principal Investigator and Field Supervisor of the project was Adam Brinkman, M.A. (Historic Archaeology – University of Massachusetts) who is qualified under the Secretary of the Interior’s professional qualification standards.

Construction Project Scope:

The Antler Ridge trailhead construction project, slated to begin in 2025, will formalize the Antler Ridge social trail into a fully maintained trail. Formalizing the trail will include widening the trail, adding trail tread as appropriate, building trail structures, and creating small drainage features to ensure the trail is stable for future trail users. This trail will be maintained by the Denali Borough and partners.

Statement of Objectives

The archaeological survey for the trail construction consisted of a pedestrian survey of the trail corridor including a 20-meter buffer on each side of the centerline of the trail (Figure 1). Subsurface testing was conducted near potential archaeological features and on prominent landforms that had a potential for cultural resources.

Project Location

USGS Quad Map Name	Township	Range	Sections
Healy D-4 USGS Quad	13 S	7W	6 NW

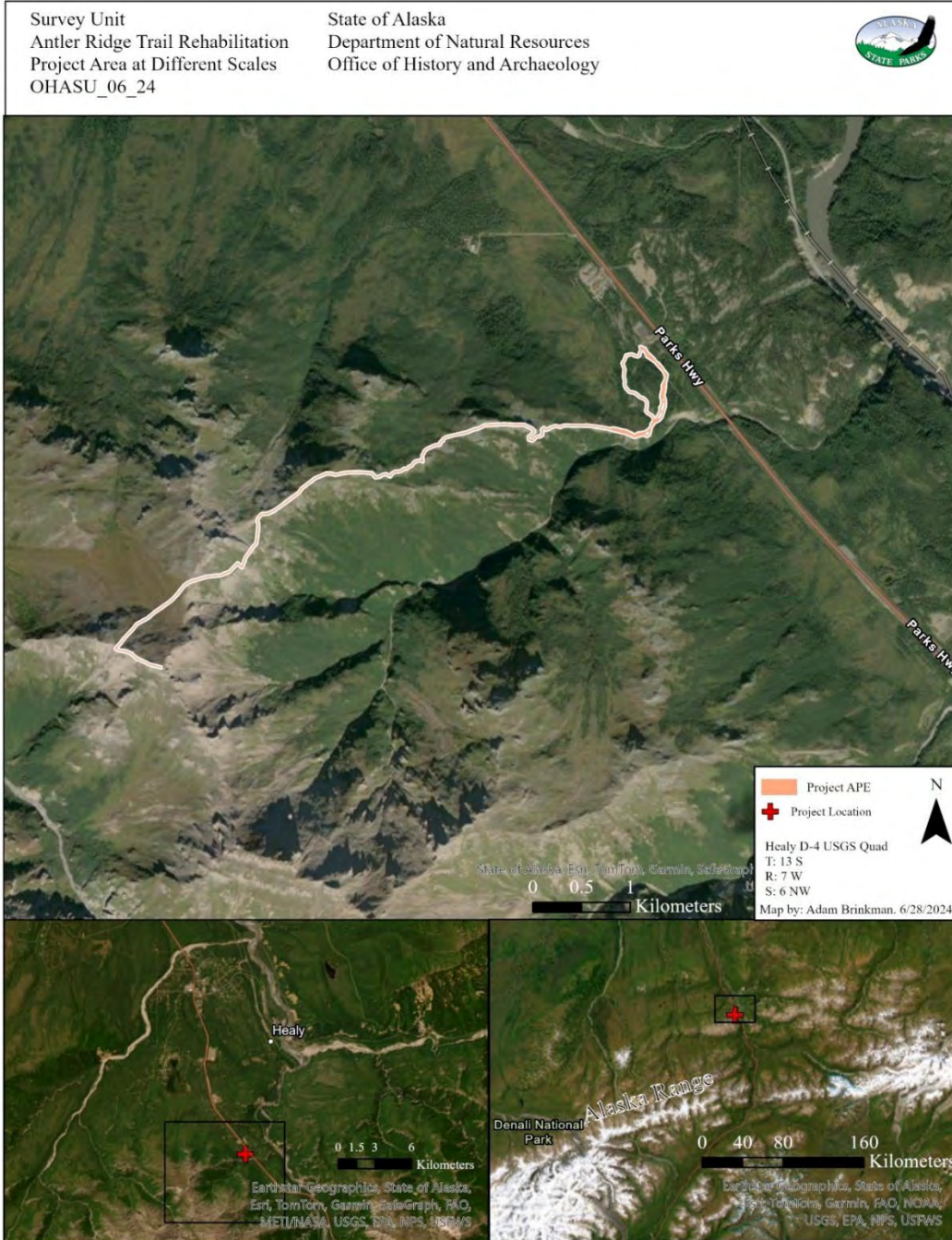


Figure 1. Antler Ridge Project Location.

Environment

Antler Ridge is located in the Interior of Alaska, on the north side of the Alaska Range in the Nenana River valley. The Nenana River begins at the Nenana Glacier on the south side of the Alaska Range, flowing southward for 47 miles through Broad Pass and then abruptly turning northward (Wahrhaftig 2001). The Nenana River bisects the Alaska Range, making its way through the foothills and flats and eventually joins the Tanana River (Gore et al. 2023). The Nenana carving through the Alaska Range over millennia has revealed the complex geology of the Alaska Range.

The project area lies within the Alaska Range Ecoregion. This ecoregion is characterized by high steep mountains with rocky slopes, ice fields, and glaciers. Elevations in the region range from 1,980 ft (600m) of broad sweeping valleys to 12,870 ft (3,900m) peaks. Denali, the tallest mountain of North America at 20,320 ft (3,900m) is found within the Alaska Range. Due to the height of the region, the climate is a cold, continental climate. Discontinuous permafrost underlies the region (Burch 2006).

Vegetation in the region varies based on elevation. Shrub communities of willow, birch, and alder occur on lower slopes and valley bottoms, while dwarf scrub plant communities occur in windswept areas. Needleleaf forests of white and black spruce cover some valleys and lower slopes. Overall, vegetation is sparse in the ecoregion (Burch 2006).

Mammals of the ecoregion include predators such as brown bear, gray wolves, and wolverine. Dall sheep roam the alpine tundra and caribou herds migrate through the passes and valleys. Smaller mammals include hoary marmots, singing voles, and pikas. Fish species include lake trout in the deep lakes, salmon in the rivers and streams, as well as Dolly Varden and Arctic Grayling (Burch 2006; Gallant et al. 1995).

Culture History Overview

Early Holocene:

The Alaska Range was heavily glaciated during the Wisconsinian Glacial Stage of the Pleistocene. The project area is on the north side of the Alaska Range and was covered by glaciers until approximately 16000 BP (Dalton et al. 2020; Dyke et al. 2003). As the glaciers retreated through the end of the Pleistocene, the landscape became more suitable for human inhabitation.

The earliest archaeological evidence of human migration into Interior Alaska comes from Swan Point in the Tanana River Valley, approximately 14200 BP. For thousands of years after, people migrated across the region, identified in the archaeological record based on their unique technological toolsets. Archaeologists have differentiated them into multiple cultural complexes including the Eastern Beringian Tradition, Nenana Complex, Denali Tradition, Chindadn Tradition, Mesa Tradition, and northern Clovis tradition.

These groups created large bifacial points, unifacial tools, blades, and blade cores, burins, graters, perforators, and large unifacial cobble tools (Gillespie and Schmuck 2024; Graf et al. 2015). Some groups incorporated microblade technology, wherein microblades were inset into antler, bone, or ivory foreshafts to create composite material hunting weapons (Gillespie and Schmuck 2024; Reuther et al. 2023). These tools were used by small groups of people to maintain a mobile lifestyle. It was focused on hunting a range of large game (such as mammoth, ancient bison, caribou, wapiti), birds, and fish (Gillespie and Schmuck 2024; Gore et al. 2023; Holmes 2001).

The archaeological sites within the Nenana and Tanana River lowlands have been extensively studied and are well documented (Blong 2018). Most of the sites along the river corridors occur within the northern foothills zone (Gore et al. 2023). Archaeological sites in the lowlands (such as those found in the Nenana and Tanana River basins) tend to be more extensive and are thought to be occupied for a longer term with multiple activity centers. Upland archaeological sites from the Early Holocene are usually specialized, small, and have low artifact density. They are interpreted as short term logistical camps associated with upland hunting (Blong 2019).

Northern Archaic:

As the climate stabilized with the Middle Holocene (~7000 BP), waves of migrating “Northern Archaic” culture bearing people moved across the Alaska Interior, including the Nenana valley (Boraas 2004; Gillespie and Schmuck 2024). Anthropologists have used a range of evidence including - Dena’ina oral tradition, mythology, linguistics, social structure, cosmology, and archaeology- to argue the Northern Archaic tradition peoples were ancestral Athabaskans. Over time, these groups diversified into the regional dialects that are still present across Alaska (Boraas 2004; Smith 2020).

The Northern Archaic people introduced new tools and techniques, including ground stone tools, advanced hunting equipment (such as lanceolate and side-notched projectile points), caribou fences and drive lines, and innovative fishing tools like notched pebbles (Esdale 2008). The use of microblades and wedge-shaped microcores continued to be used alongside the new suite of technologies and practices (Potter 2008). Some tools and decorative objects were made using trade goods from distant areas, such as Batza Tena obsidian. The presence of these distant goods reflects extensive trade networks that were developed across the region (Esdale 2008; Wygal and Goebel 2012).

The subsistence base of Northern Archaic people remained focused on large game animals, particularly wapiti and caribou. However, they developed new group hunting techniques and diversified their diet to include small game, birds, and fish (Esdale 2008). Caribou became increasingly important after 5000 BP, coinciding with a broader shift toward greater use of upland areas during this period (Blong 2019; Potter 2008).

Archaeological evidence indicates that upland sites from this era became increasingly intensive and may have transitioned to full-time seasonal occupations (Blong 2019). Residential base camp sites from this period are characterized by significant quantities of lithics, bone, and fire-cracked rock, suggesting sustained activity (Blong 2019). These sites often contain dense concentrations of calcined and burned bones, along with possible anvil stone fractures, which are interpreted as evidence of large mammal bone processing for grease and marrow.

Late Holocene:

By approximately 1700 BP, Northern Archaic culture bearing people transitioned into using new technologies and practices aligning with Athabaskan (Dene) traditions observed by early colonists (Gillispie 2018). This shift included a broader use of organic materials and a transition from atlatl throwing boards to the bow and arrow (Gillispie 2018). Tools from this era were predominantly made from wood, bone, plant fibers (including basketry); chipped stone tools continued to be used, but “its use and sophistication diminished in favor of wood and bone technology” (Wygala and Krasinski 2019:81). Ground slate tools, ground stone adzes, copper pins, and copper projectile points are present in the archaeological record from this era as well. The presence of native copper during this era is diagnostic of Athabaskan groups trading with Ahtna people of the Copper River (Kari and Fall 2003; Reger 1998; Reger and Boraas 1996).

The upper Nenana River valley is home to the Tanana Athabaskan people of the Lower Tanana (*Kokht'ana*). They are related to the Middle Tanana, Tanacross (*Koxt'een*), and Upper Tanana (*Koht'iin*) groups (Krauss 2011). By the 19th century, the upper Nenana river was the territory of the Nenana-Toklat Band and Wood River Band of Lower Tanana people (Smith 2020:48).

The Tanana people used upland and lowland areas throughout their seasonal rounds. Upland areas provided opportunities to intercept seasonally migrating caribou, fish in mountain lakes and streams, set traplines for fur bearing mammals, hunt ground squirrels, collect toolstone, gather berries, and forage for plants (Gore et al. 2023; Smith 2020). Camps in upland areas were typically small and temporary, with simple dome-shaped bark or hide shelters and campfires. On the uplands of the Susitna Basin to the south, archaeologists found that the overall lithic and faunal artifact density from this period decreased (Blong 2019)

In contrast, lowland winter residences were more permanent, featuring semi-subterranean dome shaped house covered with hides or skins (Smith 2020). Access to rivers with anadromous fish allowed for larger semi-permanent winter villages. This whole landscape was interconnected with an extensive network of trails and waterways (Gillispie 2018; Gore 2022; Smith 2020).

An archaeological site near the project area, Nenana River Gorge Site (HEA-00062), offers insights into the lifeways of this era. Here, prehistoric Athabaskan people camped at an overlook in late summer and early fall, fishing and hunting caribou, sheep, moose, black bear, beaver, snowshoe hare, squirrel, ptarmigan, sharp-tailed grouse, and arctic grayling (Plaskett 1977).

Russian and American Era:

The territoriality of the Dena'ina and Ahtna groups offered interior Dene groups a degree of protection against Russian colonization (Boraas and Leggett 2013). This was occasionally interrupted by sporadic incursions by a few British-Canadian and American exploration teams as they mapped small portions of the Alaska Interior in the 19th century. European trade goods became important commodities within Native trade networks, with groups of Tanana exchanging furs with coastal Dena'ina middlemen for these imported trade goods (Linn and Topp 2008; Smith 2020).

The gold rushes in Seward, Nome, and Chena led to a stampede of gold seekers into the Alaska Territory on the eve of the 20th century (Hunt 1990). These stampeders travelled along the rivers and the trail systems used by Alaska Native people for millennia. One important route developed during this era was the Susitna Valley-Broad Pass-Nenana River trail, which connected the Tanana gold fields to the Cook Inlet and Seward. This route later served as the alignment for the Alaska Railroad.

Construction of the Alaska Railroad began in 1915 and concluded in 1923 at the town of Nenana (Alaska Railroad Corporation 2023). This ambitious project brought thousands of workers to Nenana, many of whom departed after the railroad's completion. While many left after completion, it led to some non-Natives permanently settling in the area (Shinkwin and Case 1984). The railroad has been instrumental in the development of Fairbanks and expansion of development along the railroad corridor. In addition to the railroad passing near the project area, a railroad flag stop dubbed 'Garner' is located a mile northeast of the Antler Ridge trailhead (HEA-078). Later, the Parks Highway, completed in 1971, followed the same overall alignment as the railroad (Alaska Department of Transportation 2025).

Winter fur trapping continued to be a vital source of wealth throughout the 20th century. Each fall, Interior Alaskan villagers travelled to their winter trap lines before freeze-up. "Soon after freeze-up, the traps and snares would be set from then until Christmas the trapper was moving, checking his trapline, then back to the cabin to skin and stretch fur" (Linn and Topp 2008:10–11). After a Christmas break, trappers continued working until spring breakup where they returned to their village to resume their seasonal cycle of activities. Trapped furs were used to make clothing and were sold as a source of income (Linn and Topp 2008).

Mount McKinnley National Park, now Denali National Park & Preserve, was established in 1917 by the United States Congress. It had been created after years of lobbying by Harry Karsten and Charles Sheldon to protect Dall Sheep habitat and the natural wonder of Denali (Norris 2006). Their lobbying was spurred by the voracious appetites of the gold mining community of Kantishna; it had developed in the foothills north of the Alaska Range after 1905 and hunters killed scores of large mammals to feed this community (Norris 2006). Denali National Park has drawn millions of tourists in the century since its initial establishment.

Nearby Historic Properties:

Within a five-mile radius for the project area there are multiple historic and prehistoric sites (Table 1). Many of the historic sites relate to mining, the Alaska Railroad, and communications (i.e. telegraph poles).

The closest archaeological sites to the project area are HEA-00596 and HEA-00593. HEA-00596 is south of the parking lot. The site is on a bluff overlooking Antler Creek to the South and consists of a sparse lithic scatter found on the surface. Further subsurface testing in 2015 did not result in any further artifacts being recovered (Alaska LNG 2016). HEA-00593 is just north of the existing Antler Ridge parking lot and consists of one lithic flake found on the surface (AHRs card for HEA-00593).

AHRS #	Name	Time Period	Cultures	Site Type	Significance
HEA-00449	HEA-00449	Historic	N/A	Mining Trench	Not Assessed
HEA-00696	RR Bridge MP 354.0	Historic	Euroamerican	Pony Truss Bridge	Not Assessed
HEA-00619	HEA-00619	Historic	Not Listed	Historic camp site	Not Assessed
HEA-00603	HEA-00603	Historic	Euroamerican	Communication, telegraph	Not Eligible
HEA-00593	HEA-00593	Prehistoric	Not Listed	Single lithic flake	Not Assessed
HEA-00377	Antler Creek ARR Bridge	Historic	Euroamerican	Bridge	Not Assessed
HEA-00350	HEA-00350	Historic	Euroamerican	Transportation Railroad	Not Assessed
HEA-00339	HEA-00339	Historic	Euroamerican	Ruins, Mining, Can Scatter	Likely Eligible
HEA-00338	ARCC Bridge MP 354	Historic	Not Listed	Bridge	Eligible
HEA-00329	HEA-00329	Historic	Euroamerican	Structural ruins, can dumps	Eligible
HEA-0079	Garner Tunnel	Historic	Euroamerican	Transportation Railroad	Not Eligible
HEA-00596	HEA-00596	Prehistoric	Not Listed	Lithic Scatter	Not Eligible
HEA-00062	Nenana River Gorge Site	Prehistoric, Historic	Athapaskan, Euroamerican	Lithic Scatter, Faunal, Pottery, Railroad	Eligible
HEA-00019	HEA-00019	Prehistoric	Not Listed	Lithic Workshop	Not Assessed
HEA-00018	HEA-00018	Prehistoric	Not Listed	Lithics, Surface Collection	Not Assessed
HEA-00121	Bison Gulch 2	Prehistoric, Historic	Not Listed	Lithic Scatter, Scraper, Rifle Casing	Not Assessed
HEA-00015	HEA-00015	Prehistoric	Not Listed	Lithic Scatter	Not Eligible
HEA-00014	Coyote Creek Site	Prehistoric	Not Listed	Isolated Find, hammerstone	Not Eligible
HEA-00052	Moody	Historic	Not Listed	Alaska Railroad Flagstop	Not Assessed
HEA-00010	HEA-00010	Prehistoric	Not Listed	Lithic scatters, scraper	Not Assessed
HEA-00109	Bison Gulch Bluff	Prehistoric	Not Listed	Stone lined cache pit	Not Assessed
HEA-00328	HEA-00328	Historic	Euroamerican	Structural ruins	Not Eligible
HEA-00327	Healy's Luck Strike Site	Prehistoric	Athapaskan	Lithic scatter, biface, rhyolite	Eligible
HEA-00076	Moody Tunnel	Historic	Euroamerican	Structure, Tunnel, Railroad	Eligible
HEA-00077	Tunnel 9	Historic	Euroamerican	Structure, Tunnel	Not Eligible
HEA-00027	HEA-00027	Prehistoric	Not Listed	Basalt, biface and flakes	Not Assessed
HEA-00078	GARNER	Historic	Euroamerican	Alaska Railroad Flagstop	Not Assessed
HEA-00026	HEA-00026	Prehistoric	Athapaskan	Surface flakes	Not Assessed
HEA-00025	HEA-00025	Prehistoric	Not Listed	Surface flakes and scrapers	Not Assessed
HEA-00817	ARCC 355.2	Historic	Euroamerican	Historic Can Scatter	Not Assessed

Table 1. Nearby Archaeological Sites within 5 miles of the APE

Methods

Prior to the start of fieldwork, background research was conducted by the OHA survey unit team following the guidelines set by the OHA (Office of History and Archaeology 2024a). Team members conducted research in the Alaska Historic Research Survey (AHRS) and file records at the OHA office for previously discovered cultural resources around the project area.

The survey fieldwork methods followed the guidance provided by the OHA (Office of History and Archaeology 2024b). This project was led by a Secretary of the Interior (SOI)-qualified archaeologist (Adam Brinkman, M.A.), who also is qualified under 11 AAC 16.040 for work on state lands. The fieldwork team also included survey unit archaeologists Katie Ollesch, B.S., and Maggie Brown, B.A.

Desktop Analysis

Based on the initial background research that has been conducted, landforms more likely to contain cultural resources are:

- Elevated vantage points that provide good lines of sight to the surrounding landscape.
 - Specifically, glacial outwash terraces overlooking streams and rivers.
- Ridgelines with good vantage points and denuded of vegetation.
- Landforms with accessible and quarriable lithic materials (Cryptocrystalline silica rocks, obsidian, fine grained quartzite, etc).
- Historic maps and documentation indicating the presence of historic ownership, Alaska Native Villages, or commercial operations.

Pedestrian Survey

The survey team conducted pedestrian survey with subsurface testing (STPs) in the project area. Along the project APE, surveyors maintained approximately 5-10 meter transects depending on vegetation and hill slope. Survey transects were recorded by handheld Garmin GPS receivers by the team members.

Due to safety concerns, the steep sections (>30° slope) of the Antler Ridge trail were surveyed from the main social trail. When the surveyors encountered flat portions of the trail, they spread out to the appropriate transect size, and continued until the terrain became steep again.

When archaeological materials were discovered on the surface, the surrounding landform was surveyed more intensely for additional cultural materials or features. Cultural resources were documented as sites to support NRHP determinations. Temporary site ID numbers were assigned, and site information was recorded on standardized site forms and field notebooks. Documentation included mapping using a sub-meter accurate GPS receiver (Eos Arrow 100

antenna with iPad Pro tablet), digital photography with corresponding photo logs, artifact documentation, feature identification, and site boundary delineation.

Due to the limited findings, no artifacts were collected during the survey. For identified sites, the field DOE was updated after additional research was conducted in the office.

Shovel Testing

During the testing phase of fieldwork, STPs measuring 50x50 cm were excavated to test for subsurface cultural deposits. The root mat was removed, inspected for artifacts, and replaced to limit disturbance (Figure 2). STPs were excavated by shovel skimming and hand trowelling natural strata down to glacial sediments or the water table. Each soil stratum was screened with 1/8th inch screen. Shovel test profiles were sketched and photographed, with color and texture of each strata described. This information was recorded on dedicated STP forms or team member field notebooks.



Figure 2. The root mat was preserved.

National Register Documentation

For each identified cultural resource, the archaeologists made a recommendation of Eligibility for inclusion on the National Register of Historical Places (NRHP). Archaeologists used seven characteristics of integrity and four criteria of significance to determine if the property was eligible for inclusion on the NRHP (per 36 CFR 800). The criteria for evaluating site significance, published in the U.S. Government Code of Federal Regulations (36 CFR Part 60.4), are as follows:

The quality of significance in American history, architecture, archaeology, engineering, and culture is present in districts, sites, buildings, structures, and objects that possess integrity of location, design, setting, materials, workmanship, feeling, and association and

(a) that are associated with events that have made a significant contribution to the broad patterns of our history; or

(b) that are associated with the lives of persons significant in our past; or

(c) that embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction; or

(d) that have yielded, or may be likely to yield, information important in prehistory or history.

Historic Isolated Finds

Historic isolated finds represent single episode deposition event of a small quantity of artifacts (between 3-10 within a 10-meter area) or a single undiagnostic feature. Isolated Finds are generally not considered significant cultural resources and, therefore, are generally not eligible for listing on the NRHP, as they have limited scientific value. Following the Alaska Historic Resource Survey (AHRS) guidance, these resources were not assigned an AHRS but retained their temporary site ID number.

Results:

Pedestrian survey was completed within the project area, which identified one precontact site and one historic isolate. Two half days (8/12/24, 8/14/24) were spent pedestrian surveying the lower loop of the project area. The landforms in this lower section were more conducive to past occupation, so subsurface testing was focused on this area. There were numerous small knolls with denuded vegetation in this area which had good ground surface visibility. Only one historic isolate (24AR02) was found in the lower area. One day (8/13/24) was spent surveying the main 3,000' ascent up Antler Ridge. It was a rigorous hike, and the team was surprised to find one potential tent ring site HEA-00840. The lower 2/3rds of the trail followed the clear social trail. The top 1/3rd of the trail was unmarked and steep, with team members primarily side sloping up to the summit.



Figure 3. Lower Section of Survey with Track Log

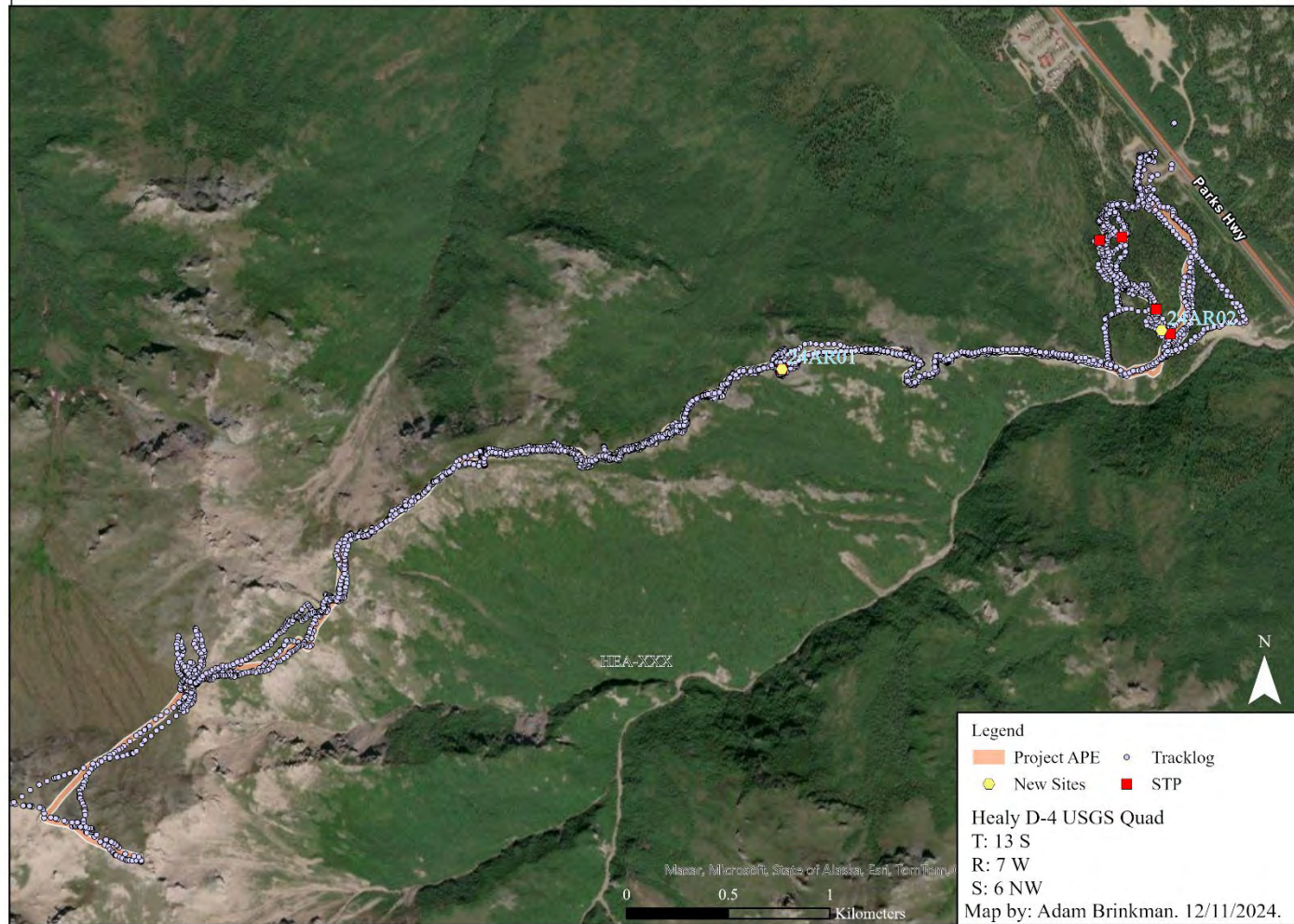


Figure 4. Full Trail Survey with Track Log

Subsurface Testing:

A total of 6 shovel test pits were excavated in the project area, all of which were negative for cultural material. ARSTP-04 was placed within the circle of stones of HEA-00840 (24AR01), with no cultural material recovered. ARSTP-03 was placed near the historic isolate 24AR02 (wire snare trap) and was negative as well. Overall, there was very little soil accumulation in STPs 1-4, which makes sense considering the high alpine environment with lichen and ericacea ground cover.

Table 2: Total STPs excavated in the project area

STP ID	Depth in cm	Positive/Negative?	Comment
ARSTP-01	11	Negative	
ARSTP-02	9	Negative	
ARSTP-03	15	Negative	
ARSTP-04	5	Negative	
ARSTP-05	26	Negative	

Table 3: ARSTP-03 Profile

Recorder: MRB		Date: 8/12/24	Pos/Neg: Neg
Site: N/A		STP: ARSTP-03	Depth: 26
Level	Depth	Soil Description	
1	0-5	Topsoil, 7.5YR 4/3 Brown silt	
		Glacial sediment, 7.5YR 5/6	
2	5-15	Strong brown sandy clay	



Figure 5: ARSTP-03 Profile Photo, North Wall

Table 4: ARSTP-04 Profile

Recorder: MRB	Date: 8/13/24	Pos/Neg: Neg
Site: 24AR01	STP: ARSTP-04	Depth: 5 cmbs
Level	Depth	Soil Description
1	0-2	Topsoil
2	2-5	Glacial sediment, 7.5 YR 5/6 Strong brown sandy clay with 70% gravels



Figure 6: ARSTP-04 Profile Photo, Plan View

ARSTP-5 was excavated in a depression in a forested grove. It was initially believed to be a potential cache pit. However, the soil was highly organic soil down to glacial till at 20 cmbs. It was interpreted as a tree-fall root-ball after excavation due to the high organic content.

Table 5: ARSTP-05 Profile

Recorder: MRB	Date: 8/14/24	Pos/Neg: Neg
Site: 24AR02	STP: ARSTP-05	Depth: 26
Level	Depth	Soil Description
1	0-20	Topsoil, 7.5YR 3/3 dark brown loam
2	20-26	7.5 YR 4/3 Medium brown loam



Figure 7: ARSTP-05 Profile Photo, North Wall

New Site Records:

HEA-00840 (24AR01)

Location: The site is located on an unnamed spur of Antler Ridge overlooking Antler Creek to the south. Park at the Antler Ridge Trailhead parking lot and hike northwest on an informal trail along the ridgeline for 0.77 miles. The site is located 20 m south of the informal trail.

Description: The site consists of a single course oval ring (5 m x 3 m) of large rocks with two piles of collapsed stones in the center. It is located on a flat south facing shelf on the southern aspect of a ridgeline. This site position overlooks a mountain ravine below. The informal Antler Ridge Trail is located approximately 22 m northeast of the site and travels east – west. The vegetation on site includes dwarf alder, blueberries, bearberry, and tundra grasses. The ground visibility is approximately 20 percent. The viewshed is of the Nenana Valley and Antler Ridge and Antler Creek is 550 m south of the site. The rock alignment consists of approximately 11 stones with lichen growth on them. Some of the stones are embedded in the tundra soil while others sit on the surface (directly on mineralized soil). One of the rock stacks consists of four stones (collapsed) and the other consists of two stones (collapsed). One shallow shovel test probe (STP) was excavated in the center of the feature. No cultural materials were observed in the STP. No artifacts were observed on the surface.

The rock circle is hypothesized as potential perimeter weights for a hide tent. The rock piles in the center could be a tent pole support or collapsed guide cairns. Other hide tents in comparative archaeological contexts are typically slightly smaller, their diameter being around 4 m. During the Early Holocene and Late Holocene, upland camps were typically quite ephemeral and had low artifact counts (Blong 2019). Hence, a prehistoric tent ring without artifacts could have been made by humans. However, without associated artifacts or cultural materials, it is difficult to say for certain that the stone alignment is cultural.

Significance: The site could be potentially associated with the patterns of upland hunting techniques of precontact Alaskan Natives; however, without definitive artifacts or more convincing patterning of the feature, we are not certain **it is** cultural. There are much better representative examples for these events along the Alaska Range (Criteria A). It is not associated with a significant person (Criteria B). The site is not the work of a master (Criterion C). Without clear artifacts or intact subsurface deposits, it does not have data potential (Criterion D). The site is not eligible for inclusion on the National Register of Historic Places (NRHP) under any criteria. The site maintains spatial patterning and is in its original location. The site retains aspects of integrity related to location, design, setting, materials, feeling, workmanship, and association.



Figure 8: HEA-00840 (24AR01) View East



Figure 9: HEA-00840 (24AR01) View Facing South



Figure 10: HEA-00840 (24AR01) Site Overview and Viewshed, Facing South



Figure 11: HEA-00840 (24AR01) with the Antler Ridge Trail to the right of the stone circle. View, West. The stone circle is within the white dashed line.

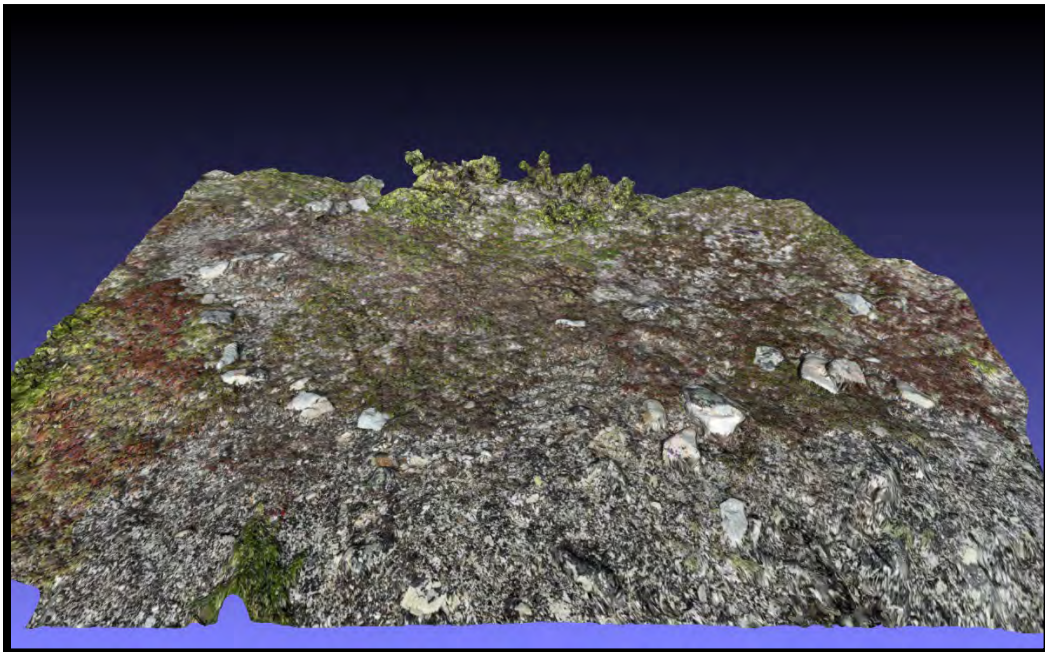


Figure 12. LiDAR scan of HEA-840 Feature. Facing North.

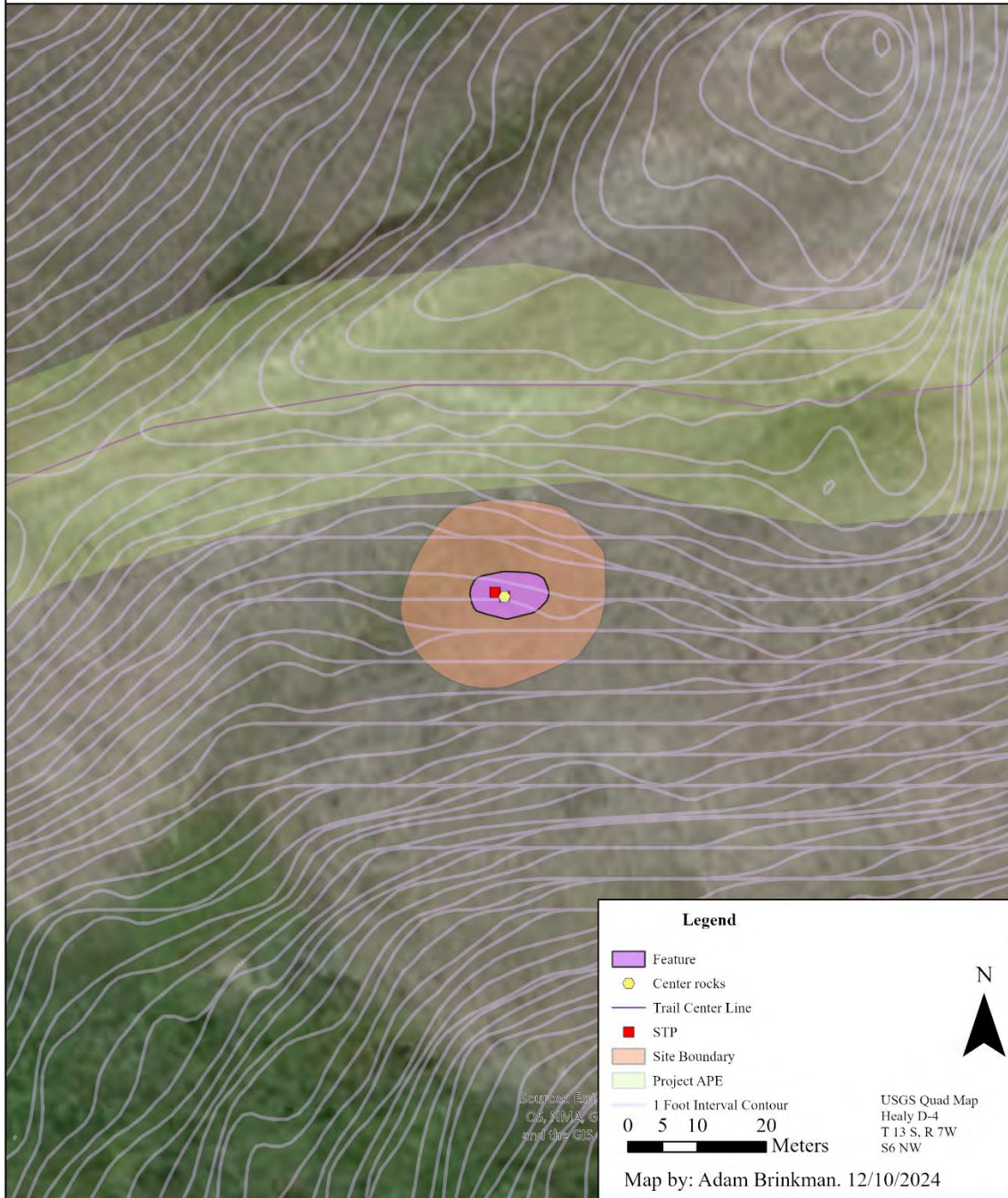


Figure 13. Site map of HEA-840 (24AR01)

Isolate 24AR02

Location: Located in a small forest glen at the base of Antler Ridge.

Description: This isolated find consists of a wire snare trap attached to a tree limb. It is made with a large loop of 5/16 diameter twisted steel wire, connected via a metal running eye, to a solid steel 'tealer' twisted around a spruce tree branch. It is in a densely forested area on the toe slope of a ridgeline. It is interpreted as the remains of a historic trap for fur bearing animals. It is estimated to be 20th century based on the connection with the tree, the wire has not been fully overgrown by the tree. It also is using commonly available materials in the 20th century.

Significance: This isolate was associated with historic trapping in the Alaska Range, but there is not much to the trap itself. There are far better representational examples of historic traps from the 20th century (Criteria A). The trap is not associated with any important individuals, nor is it remarkable in construction techniques (Criteria B, C). It is a single trap fragment in the forest; hence the data potential is quite low (Criteria D).



Figure 14: 24AR02, photo scale is in the center of the galvanized snare loop



Figure 15: 24AR02, close-up of snare loop and locking mechanism



Figure 16. Snare running eye detail



Figure 18. Snare trigger attachment



Figure 17: 24AR02, close-up of snare wire wrapped around tree limb

Survey Unit
Antler Ridge Trail Rehabilitation
24AR02 Site Location

State of Alaska
Department of Natural Resources
Office of History and Archaeology



Figure 19. Map of 24AR02 at scale.

Survey Unit
Antler Ridge Survey
24AR02

State of Alaska
Department of Natural Resources
Office of History and Archaeology

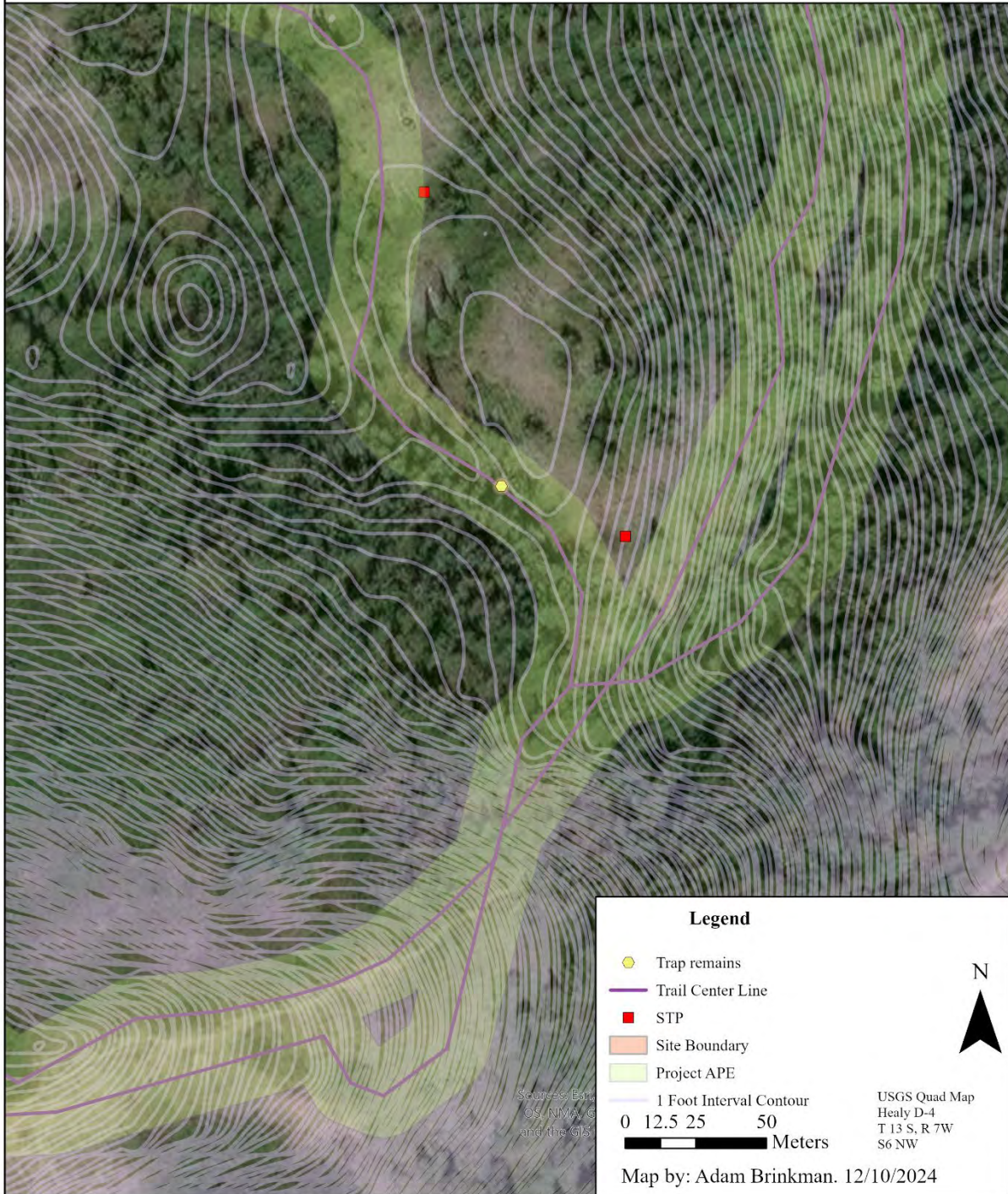


Figure 20. Site map of 24AR02

Conclusions

In August 2024, the OHA Survey Unit surveyed the alignment of the Antler Ridge trail in Denali Borough on the north side of the Alaska Range. Two new cultural resources were found over the course of the survey.

HEA-00840 (24AR01) – A potential rock tent ring provides limited evidence of upland use of the landscape by precontact Alaska Natives, the dearth of artifacts and uncertainty of the cultural origination of the stone ring limit its data potential.

24AR02 – Isolate 20th century hunting snare in the forest. The snare consisted of a single long line of wire wrapped into a tree. No other associated artifacts demonstrate limited data potential.

Neither resource is recommended as eligible for the NRHP. The potential tent ring is just outside of the survey APE and is unlikely to be impacted by trail construction activities. The trail is a beautiful hike and we look forward to improved public access in the future!

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Alaska Heritage Resources Survey Site Form

Date Received:

Alaska Department of Natural Resources, Office of History and Archaeology

550 W. 7th Ave., Suite 1310 Anchorage, AK 99501-3565

Phone: (907) 269-8718; Fax (907) 269-8908

<http://www.dnr.state.ak.us/parks/oha/index.htm>

1. **Type of Form**: New

2. **AHRS Number**: HEA-840

3. **Site Name**: [Click or tap here to enter text.](#)

4. **Description**: The site consists of a single course oval ring (5 m x 3 m) of large rocks with two piles of collapsed stones in the center. It is located on a flat south facing shelf on the southern aspect of a ridgeline. This site position overlooks a mountain ravine below. The informal Antler Ridge Trail is located approximately 20 m northeast of the site and travels east – west. The vegetation on site includes dwarf alder, blueberries, bear berries, and tundra grasses. The ground visibility is approximately 20 percent. The viewshed is of the Nenana Valley and Antler Ridge and Antler Creek is 550 m south of the site. The rock alignment consists of approximately 11 stones with lichen growth on them. Some of the stones are embedded in the tundra soil others sit on the surface. One of the rock stacks consists of four stones (collapsed) and the other consists of two stones (collapsed). One shallow shovel test probe (STP) was excavated in the center of the feature. No cultural materials were observed in the STP. No artifacts were observed on the surface. The rock circle is hypothesized as potential perimeter weights for a hide tent. The rock piles in the center could be a tent pole support or collapsed guide cairns. Other hide tents in comparative archaeological contexts are typically slightly smaller, their diameter being around 4 m. During the Early Holocene and Late Holocene, upland camps were typically quite ephemeral and had low artifact counts (Blong 2019). Hence, a prehistoric tent ring without artifacts could have been made by humans. However, without associated artifacts or cultural materials, it is difficult to say for certain that the stone alignment is cultural.

5. **Cultural Significance**: The site could be potentially associated with the patterns of upland hunting techniques of precontact Alaskan Natives; however, without definitive artifacts or more convincing patterning of the feature, we are not certain it's cultural. There are much better representative examples for these events along the Alaska Range (Criteria A). It is not associated with a significant person (Criteria B). The site is not the work of a master (Criterion C). Without clear artifacts or intact subsurface deposits, it does not have data potential (Criterion D). The site is not eligible for inclusion on the National Register of Historic Places (NRHP) under any criteria. The site maintains spatial patterning and is in its original location. The site retains aspects of integrity related to location, design, setting, materials, feeling, workmanship, and association.

6. **Associations**: None

7. **Location Information**: The site is located on an unnamed spur of Antler Ridge overlooking Antler Creek to the south. Park at the Antler Ridge Trailhead parking lot and hike northwest on an informal trail along the ridgeline for 0.77 miles. The site is located 20 m south of the informal trail.

8. **Location Reliability**: Location Exact and Site Existence Verified (1)

9. **AHRS Resource Nature**: Site

10. **Resource Nature Subtype**: Default Site

11. **Resource Keywords**: Rock alignment

12. **Site Area (Acres)**: 0.003

13. **Period Codes**: Modern Prehistoric Historic

14. **Associated Dates**: Unknown

15. **Cultures**: Euromerican

16. **Prehistoric/Historic Function**: Unknown

Alaska Heritage Resources Survey Site Form

Date Received:

Alaska Department of Natural Resources, Office of History and Archaeology

550 W. 7th Ave., Suite 1310 Anchorage, AK 99501-3565

Phone: (907) 269-8718; Fax (907) 269-8908

<http://www.dnr.state.ak.us/parks/oha/index.htm>

17. **Current Function**: Vacant/not in use

18. **Condition Code**: Tested only (C3)

19. **Destruct Codes**: Unknown Choose an item. Choose an item.

20. **Destruct Year**: N/A

21. **Owner Info**: The State of Alaska

22. **Source Reliability**: Professional Reports, Records, and Field Studies (A)

23. **Form Author**: Maggie Brown, Adam Brinkman - Archaeologists OHA

24. **Date Completed**: 12/12/2024

25. **Record Status**: Not Complete

26. **Other Number(s)**: 24AR01

27. **Artifact Repository**: None

28. **Attachments** (File Name): Click or tap here to enter text.

Alaska Heritage Resources Survey Site Form

Date Received:

Alaska Department of Natural Resources, Office of History and Archaeology

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Phone: (907) 269-8718; Fax (907) 269-8908

<http://www.dnr.state.ak.us/parks/oha/index.htm>

29. **Location Information** (Decimal Degrees, NAD 83 Datum):

Latitude: 63.8149182 N Longitude: -148.9998458 W

30. **Attach a portion of appropriate Aerial Photograph and U.S.G.S Quad Map** or detailed sketch map showing the location of the site relative to surrounding natural landforms, water bodies and/or city or town landmarks. (Either include it in the space provided or attach in a separate file).

Alaska Heritage Resources Survey Site Form

Date Received:

Alaska Department of Natural Resources, Office of History and Archaeology

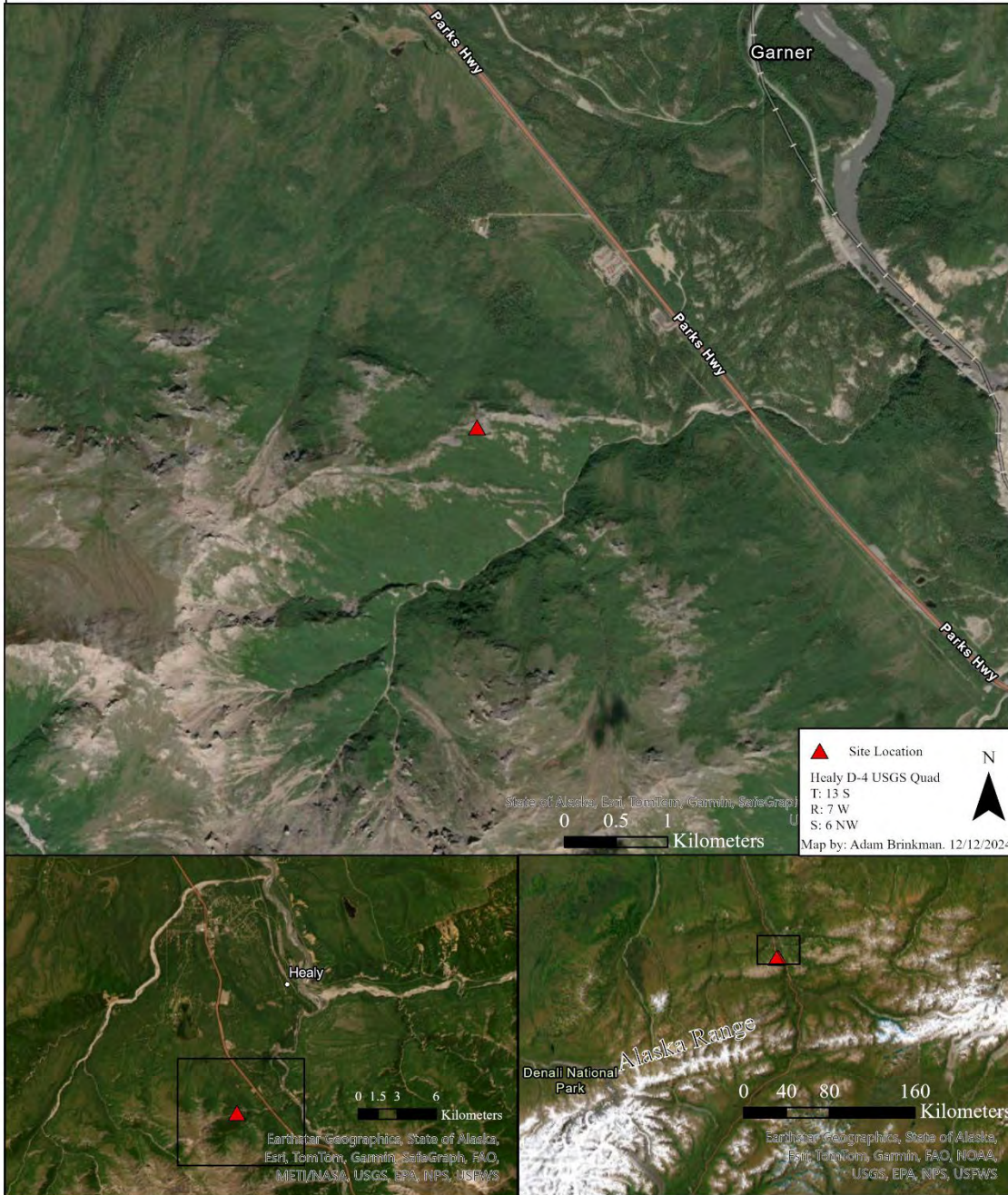
550 W. 7th Ave., Suite 1310 Anchorage, AK 99501-3565

Phone: (907) 269-8718; Fax (907) 269-8908

<http://www.dnr.state.ak.us/parks/oha/index.htm>

Survey Unit
Antler Ridge Trail Rehabilitation
HEA-840 (24AR01) Site Location

State of Alaska
Department of Natural Resources
Office of History and Archaeology



Caption: HEA-840 (24AR01) Site Location

Alaska Heritage Resources Survey Site Form

Date Received:

Alaska Department of Natural Resources, Office of History and Archaeology

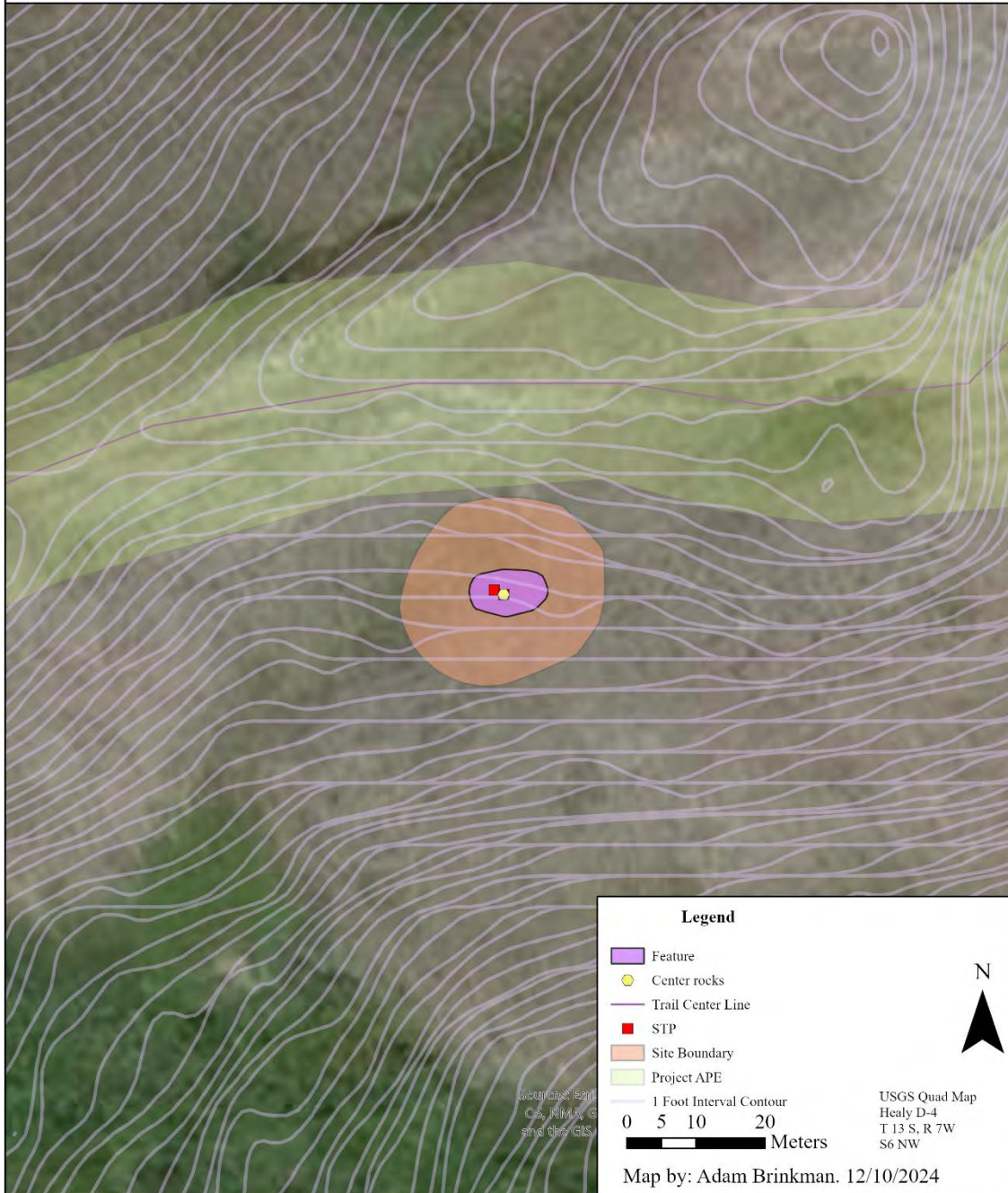
550 W. 7th Ave., Suite 1310 Anchorage, AK 99501-3565

Phone: (907) 269-8718; Fax (907) 269-8908

<http://www.dnr.state.ak.us/parks/oha/index.htm>

Survey Unit
Antler Ridge Survey
HEA- 840 (24AR01)

State of Alaska
Department of Natural Resources
Office of History and Archaeology



Caption: HEA-840 (24AR01) Site Map

Alaska Heritage Resources Survey Site Form

Date Received:

Alaska Department of Natural Resources, Office of History and Archaeology

550 W. 7th Ave., Suite 1310 Anchorage, AK 99501-3565

Phone: (907) 269-8718; Fax (907) 269-8908

<http://www.dnr.state.ak.us/parks/oha/index.htm>

31. **Summary Artifact Tables** (Insert table that notes artifact type, material, count, and any notes, including associated date ranges, if appropriate). Replace representative table if appropriate.

Artifact Type	Artifact Material	Number of Artifacts	Notes
None			

Alaska Heritage Resources Survey Site Form

Date Received:

Alaska Department of Natural Resources, Office of History and Archaeology

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Phone: (907) 269-8718; Fax (907) 269-8908

<http://www.dnr.state.ak.us/parks/oha/index.htm>

32. Representative Site Photos (Caption photos, note direction taken, add as many as necessary)



Caption: Site overview, facing north, trail in background along ridgeline.



Caption: Site overview, facing east.

Alaska Heritage Resources Survey Site Form

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<http://www.dnr.state.ak.us/parks/oha/index.htm>



Caption: Site overview, facing south.



Caption: Overview of shovel test probe post excavation.

Alaska Heritage Resources Survey Site Form

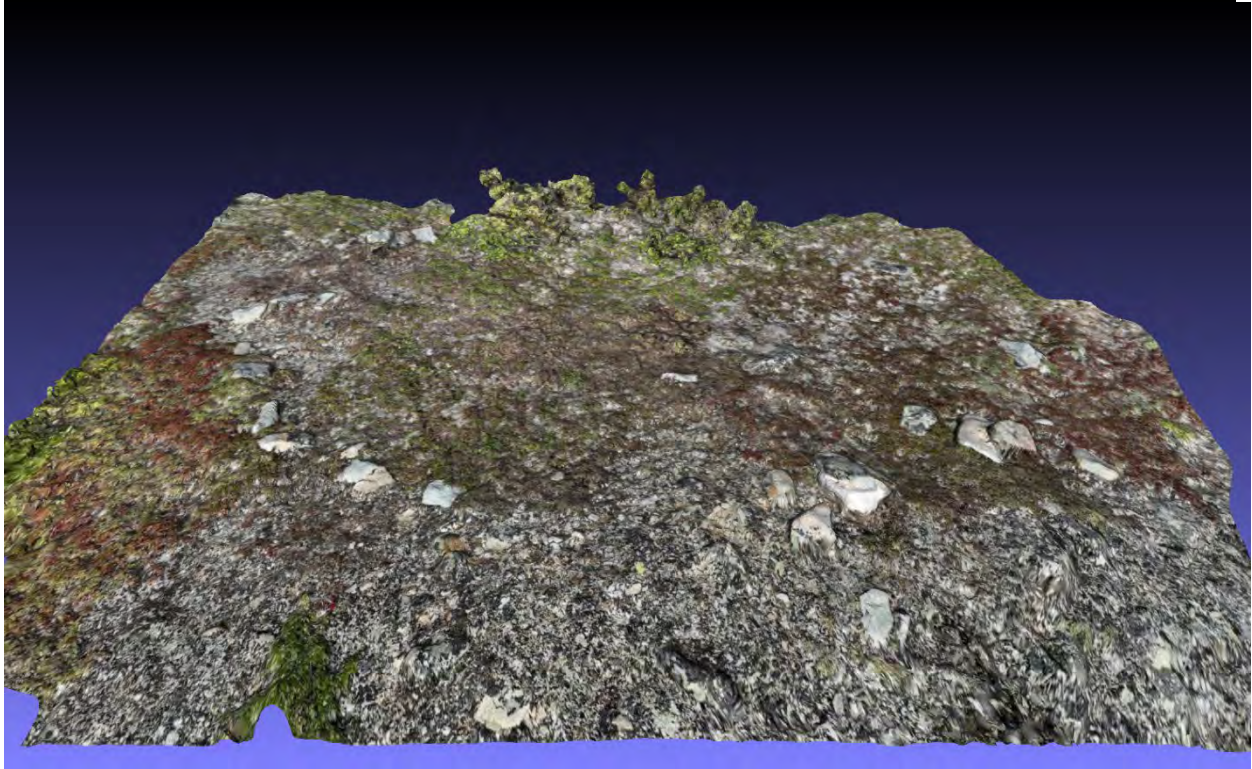
Date Received:

Alaska Department of Natural Resources, Office of History and Archaeology

550 W. 7th Ave., Suite 1310 Anchorage, AK 99501-3565

Phone: (907) 269-8718; Fax (907) 269-8908

<http://www.dnr.state.ak.us/parks/oha/index.htm>



Caption: HEA-840 LiDAR scan of tent ring feature

Alaska Heritage Resources Survey Site Form

Date Received:

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550 W. 7th Ave., Suite 1310 Anchorage, AK 99501-3565

Phone: (907) 269-8718; Fax (907) 269-8908

<http://www.dnr.state.ak.us/parks/oha/index.htm>

1. **Type of Form:** New
 2. **AHRS Number:** 24AR02
 3. **Site Name:** [Click or tap here to enter text.](#)
 4. **Description:** This isolated find consists of a rustic wire snare trap attached to a tree. It is made with a large loop of 5/16 diameter braided steel wire, connected via a metal clasp and bolt, to a solid wire of steel that is looped to a small spruce tree. It is in a densely forested area on the tow slope of a ridgeline. It is interpreted as the remains of a historic trap for fur bearing animals. It is estimated to be 20th century based on the connection with the tree, the wire has not been fully overgrown by the tree. It also is using commonly available materials in the 20th century.
 5. **Cultural Significance:** This isolate may be associated with historic trapping in the Alaska Range, but there is not much to the trap itself. There are far better representational examples of historic traps from the 20th century (Criteria A). The trap is not associated with any important individuals, nor is it remarkable in construction techniques (Criteria B, C). It is a single trap fragment in the forest, hence the data potential is quite low. (Criteria D).
 6. **Associations:** 20th Century Trapping
 7. **Location Information:** Located in a small forest glen at the base of Antler Ridge.
 8. **Location Reliability:** Location Exact and Site Existence Verified (1)
 9. **AHRS Resource Nature:** Object
 10. **Resource Nature Subtype:** Default Object
 11. **Resource Keywords:** Hunting Trap
 12. **Site Area (Acres):** .01 acre
 13. **Period Codes:** Historic [Choose an item.](#) [Choose an item.](#)
 14. **Associated Dates:** 20th Century
 15. **Cultures:** Unknown Historic
 16. **Prehistoric/Historic Function:** [Click or tap here to enter text.](#)
 17. **Current Function:** Historic trash
 18. **Condition Code:** Partially destroyed (B1)
 19. **Destruct Codes:** Construction [Choose an item.](#) [Choose an item.](#)
 20. **Destruct Year:** [Click or tap here to enter text.](#)
 21. **Owner Info:** State of Alaska
 22. **Source Reliability:** Professional Reports, Records, and Field Studies (A)
 23. **Form Author:** Adam Brinkman
 24. **Date Completed:** 12/12/2024
 25. **Record Status:** Complete
 26. **Other Number(s):** [Click or tap here to enter text.](#)
-

Alaska Heritage Resources Survey Site Form

Date Received:

Alaska Department of Natural Resources, Office of History and Archaeology

550 W. 7th Ave., Suite 1310 Anchorage, AK 99501-3565

Phone: (907) 269-8718; Fax (907) 269-8908

<http://www.dnr.state.ak.us/parks/oha/index.htm>

27. **Artifact Repository**: Click or tap here to enter text.

28. **Attachments** (File Name): Click or tap here to enter text.

Alaska Heritage Resources Survey Site Form

Date Received:

Alaska Department of Natural Resources, Office of History and Archaeology

550 W. 7th Ave., Suite 1310 Anchorage, AK 99501-3565

Phone: (907) 269-8718; Fax (907) 269-8908

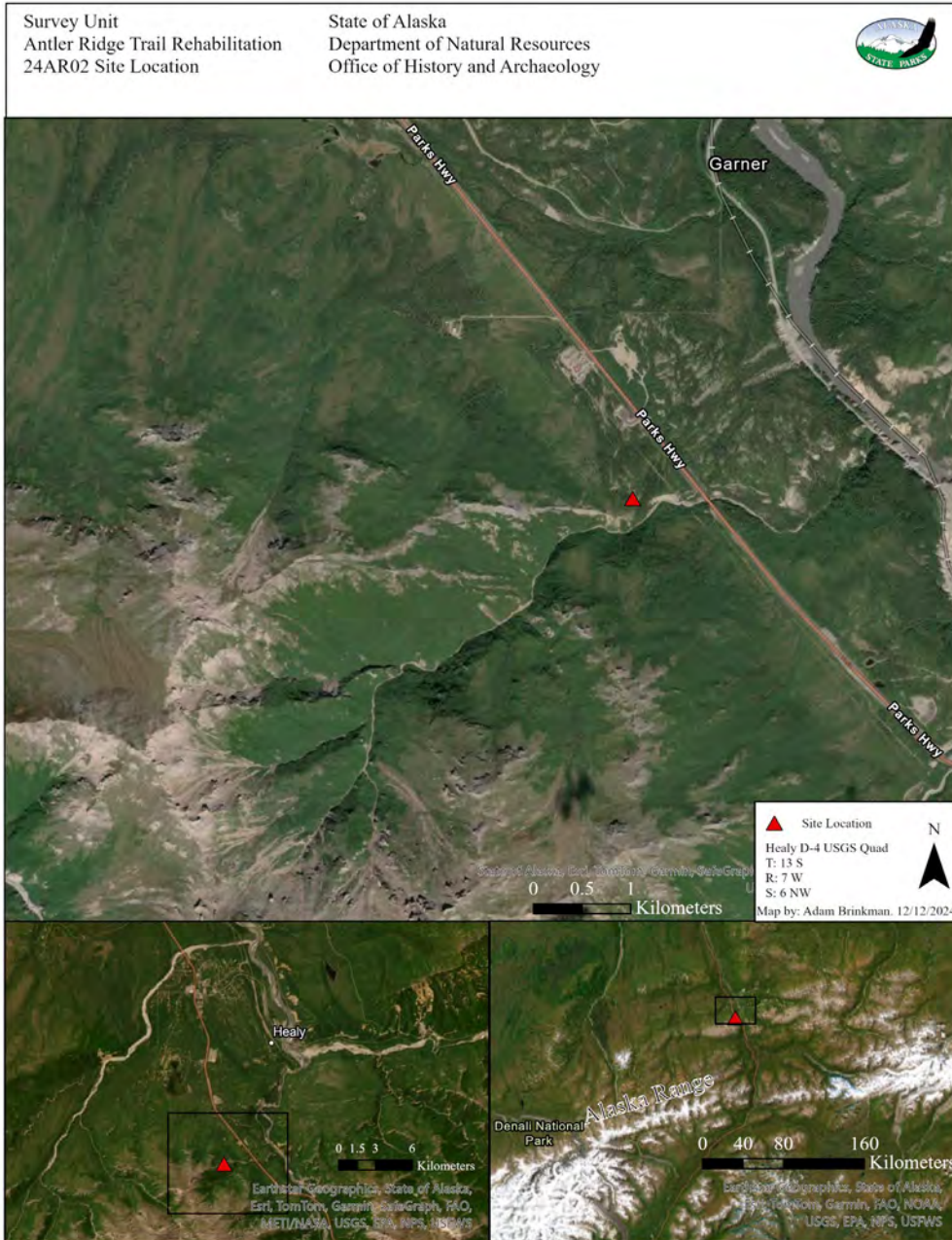
<http://www.dnr.state.ak.us/parks/oha/index.htm>

29. Location Information (Decimal Degrees, NAD 83 Datum):

Latitude: [Click or tap here to enter text.](#)

Longitude: [Click or tap here to enter text.](#)

30. Attach a portion of appropriate Aerial Photograph and U.S.G.S Quad Map or detailed sketch map showing the location of the site relative to surrounding natural landforms, water bodies and/or city or town landmarks. (Either include it in the space provided or attach in a separate file).



Caption: Site Location 24AR02

Alaska Heritage Resources Survey Site Form

Date Received:

Alaska Department of Natural Resources, Office of History and Archaeology

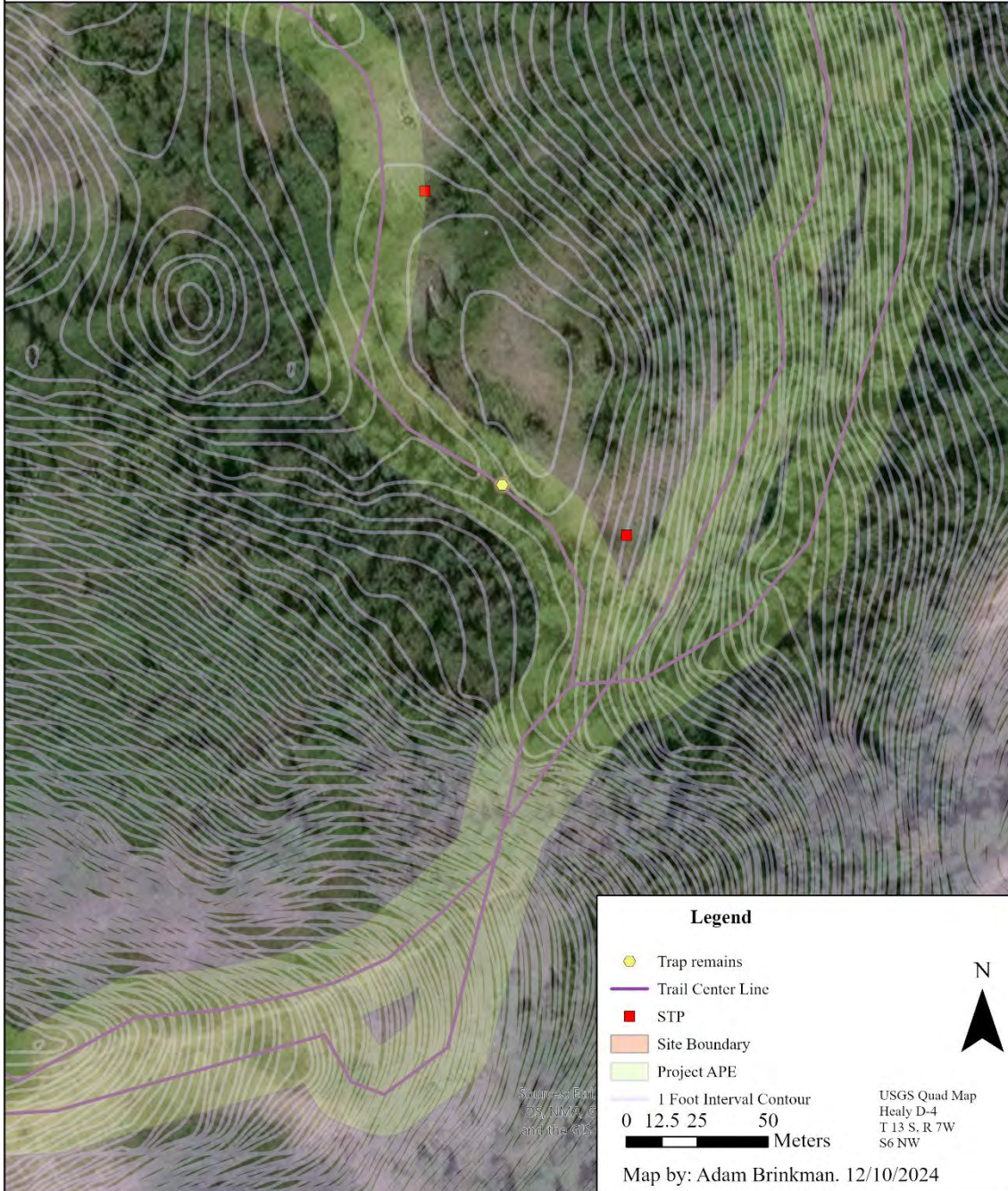
550 W. 7th Ave., Suite 1310 Anchorage, AK 99501-3565

Phone: (907) 269-8718; Fax (907) 269-8908

<http://www.dnr.state.ak.us/parks/oha/index.htm>

Survey Unit
Antler Ridge Survey
24AR02

State of Alaska
Department of Natural Resources
Office of History and Archaeology



Caption: Site map of 24AR02

Alaska Heritage Resources Survey Site Form

Date Received:

Alaska Department of Natural Resources, Office of History and Archaeology

550 W. 7th Ave., Suite 1310 Anchorage, AK 99501-3565

Phone: (907) 269-8718; Fax (907) 269-8908

<http://www.dnr.state.ak.us/parks/oha/index.htm>

31. **Summary Artifact Tables** (Insert table that notes artifact type, material, count, and any notes, including associated date ranges, if appropriate). Replace representative table if appropriate.

Artifact Type	Artifact Material	Number of Artifacts	Notes
Steel Wire trap		1	
Metal trap connector		1	

Alaska Heritage Resources Survey Site Form

Date Received:

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Phone: (907) 269-8718; Fax (907) 269-8908

<http://www.dnr.state.ak.us/parks/oha/index.htm>

32. **Representative Site Photos** (Caption photos, note direction taken, add as many as necessary)



Caption: Braided steel wire loop of snare. Hardware is on bottom right corner of loop.



Caption: Snare eye

Alaska Heritage Resources Survey Site Form

Date Received:

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Phone: (907) 269-8718; Fax (907) 269-8908

<http://www.dnr.state.ak.us/parks/oha/index.htm>



Caption: Solid steel teeter connected to tree branch

APPENDIX B

SURVEY REQUIREMENTS

1. Alaska Construction Surveying Requirements (US Customary Units)



**Alaska
Department of
Transportation
and
Public Facilities**

**Alaska
Construction
Surveying
Requirements (US
Customary Units)**

Alaska Construction Surveying Requirements (US Customary Units)

Table of Contents

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2. Survey frequency requirements	2
3. Typical section drawing	3
4. Survey point materials requirements	4
5. Typical alignment notes	5
6. Typical clearing notes	6
7. Typical level notes	7
8. Typical slope stake notes	8
9. Typical culvert notes	9
10. Typical culvert camber diagram	10
11. Typical blue or red tops and grade stake notes	11

1. Survey accuracy requirements

Third order survey

- ✓ Use a 1/5000 horizontal closure.
- ✓ Use an angle closure of $30\sqrt{N}$ seconds, where N equals the number of angles in the traverse.
- ✓ An Alaska-registered professional land surveyor must perform or supervise replacement of survey monuments (property, USGS, USC&GS, BLM, etc.) or establishment of monuments (including centerline).
- ✓ All monument work must comply with AS 34.65.040 and meet standards in the latest version of the Alaska Society of Professional Land Surveyors' *Standards of Practice Manual*.
- ✓ The allowable vertical error for misclosure is $e = 0.05\sqrt{M}$ e = maximum misclosure in feet, M = length of the level circuit in miles.

Table 1—Survey accuracy requirements (in feet)

	Stationing	HI	Closure	Horizontal Angle	Distance To center line	Grade
Additional cross sections	1.0	0.01	0.04	**	0.1	0.1
Benches		0.01	0.02			
Blue tops***	1.0	0.01	0.04		0.1	0.02
Bridges	*	0.01	0.02			0.01
Centerline	*			*		
Clearing & Grubbing	1.0				1.0	
Culverts	1.0	0.01	0.04	**	0.1	0.1
Curb & gutter	1.0	0.01	0.02		0.1	0.02
Grade stakes	1.0				0.1	0.1
Guardrail	1.0				0.1	
Manholes, catch basins & inlets	1.0	0.01	0.02		0.1	0.02
Monuments	*			*		
Red tops***	1.0	0.01	0.02		0.1	0.05
Riprap	1.0	0.1	0.04		1.0	0.1
Signs	1.0				0.1	
Slope stakes & RP's	1.0	0.01	0.04	**	0.1	0.1
Under drains & sewer	1.0	0.01	0.02		0.1	0.02

* Third order survey

**Right angle prism or transit angles from center line

*** Use blue tops for top of base course and red tops for the bottom of base course.

1. Survey frequency requirements

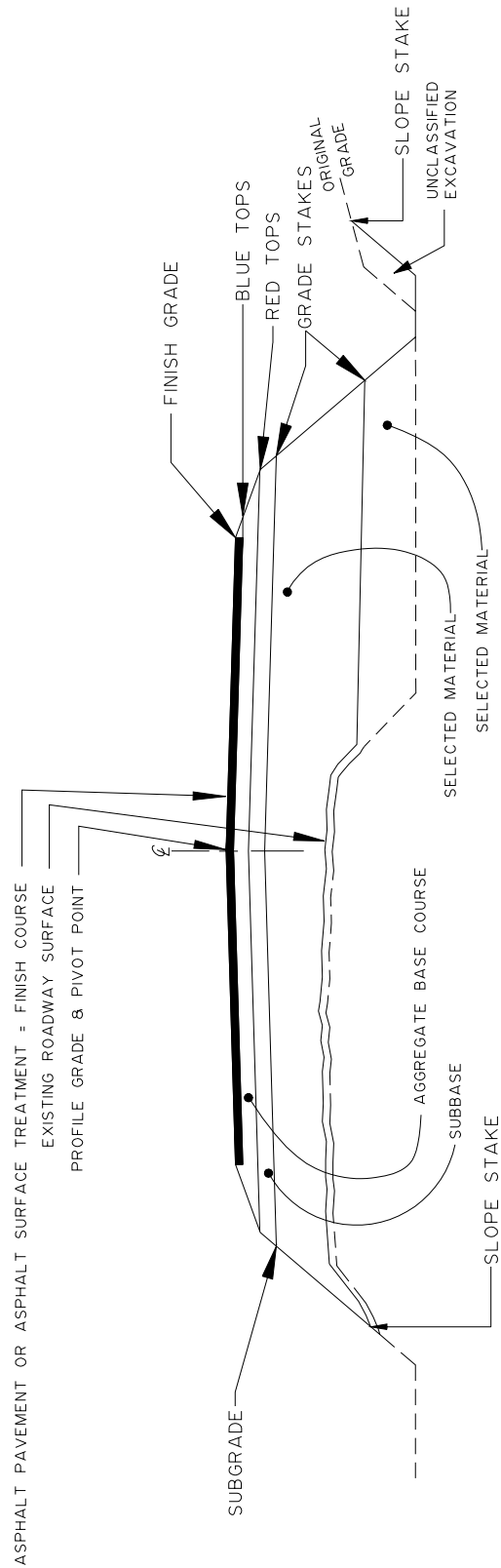
Table 2—Survey frequency requirements (in feet)

	Tangents	Curves	Interchange ramps	Stake each per plan	See special instructions on sample notes
Additional cross sections	*	*	*		
Bench marks					X
Blue tops	100	100**	25		X
Blue tops within 100 feet both sides of railroad track crossings and bridge approaches	25	25	25		X
Bridges				X	X
Center line	100	100**	25		
Clearing	100	100**	25		X
Culverts				X	X
Curb and gutter	25	25	25		
Grade stakes	100	100**	50		
Guardrail	25	25	25		
Manholes, catch basins & inlets				X	
Monuments				X	
Red tops	100	100**	25		X
Riprap	50	50	50		
Signs				X	
Slope stake / cross sections	100	100**	25		X
Under drains and sewers	50	25	25		

* Establish additional cross sections and slope stakes at all breaks in topography and where structures begin and end.

**Curves shall be staked on 50-foot stations if the curve is greater than six degrees.

2. Typical Section Drawing



TYPICAL SECTION

NOT TO SCALE

3. Survey point materials requirements

- ✓ These are minimum requirements; larger sizes may be necessary.
- ✓ Use only stakes with planed sides.

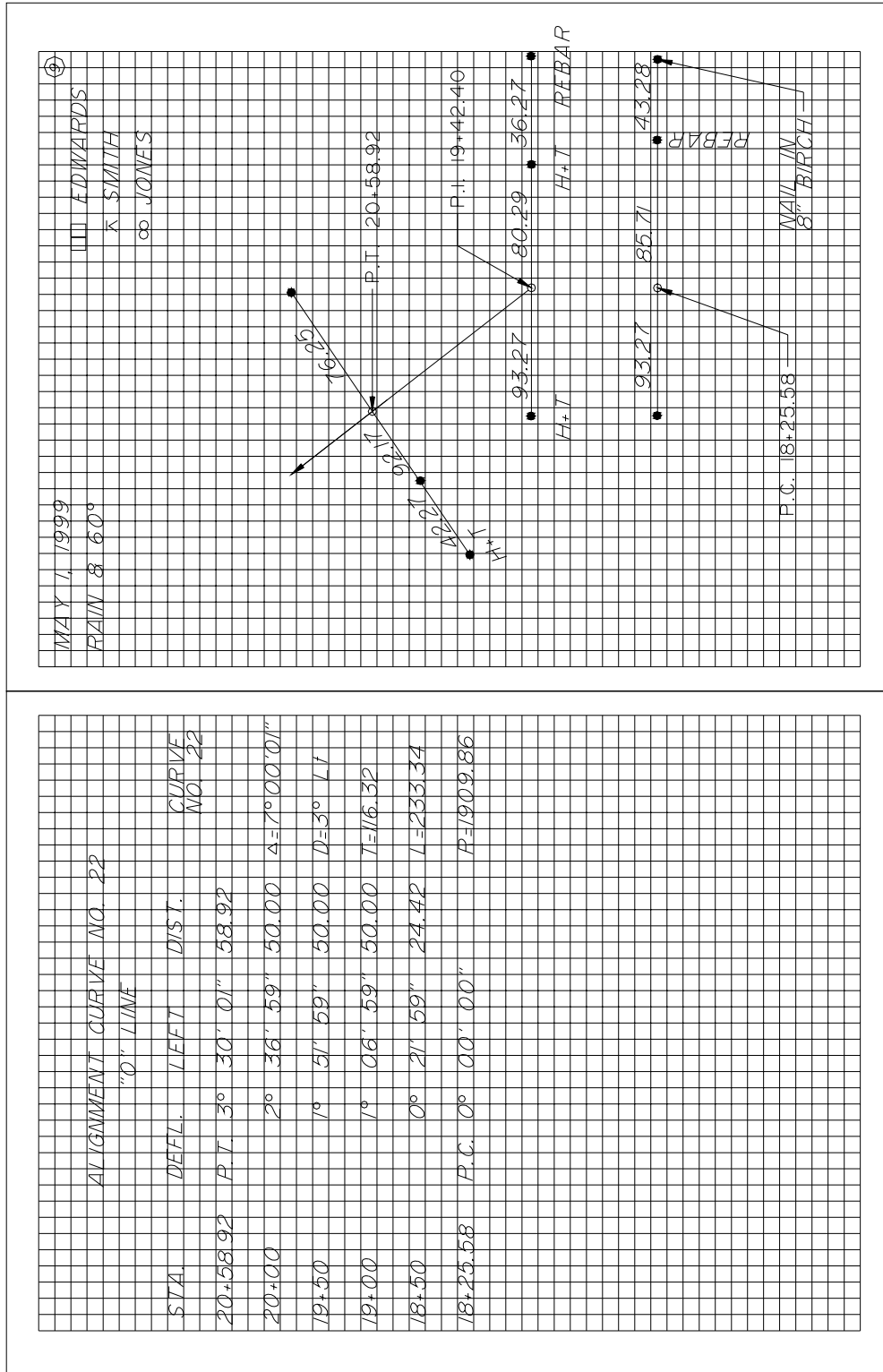
Table 3—Survey point materials requirements

	24" lath or whiskers	2" x 2" x 8" hub	2" x 2" x 12" hub	1" x 2" x 18" stake	1" x 2" x 24" stake	48" lath	Hub and tack	40d nail	60d nail	1/2" x 24" rebar
Benchmarks									X	
Blue tops	X	X								
Centerline P.C., P.T., P.O.T.			X	X			X *			X *
Centerline reference points			X	X			X *			X *
Centerline station				X				X		
Clearing						X				
Culvert stake			X		X	X				
Culvert stake references			X		X	X				
Curb and gutter			X		X		X			
Guardrail								X		
Major structures			X	X *	X *	X	X *			X *
Red tops	X	X								
Signs						X				
Slope stake					X	X				
Slope stake references			X		X	X				

* Optional depending on conditions, and to be determined by the Project Engineer.

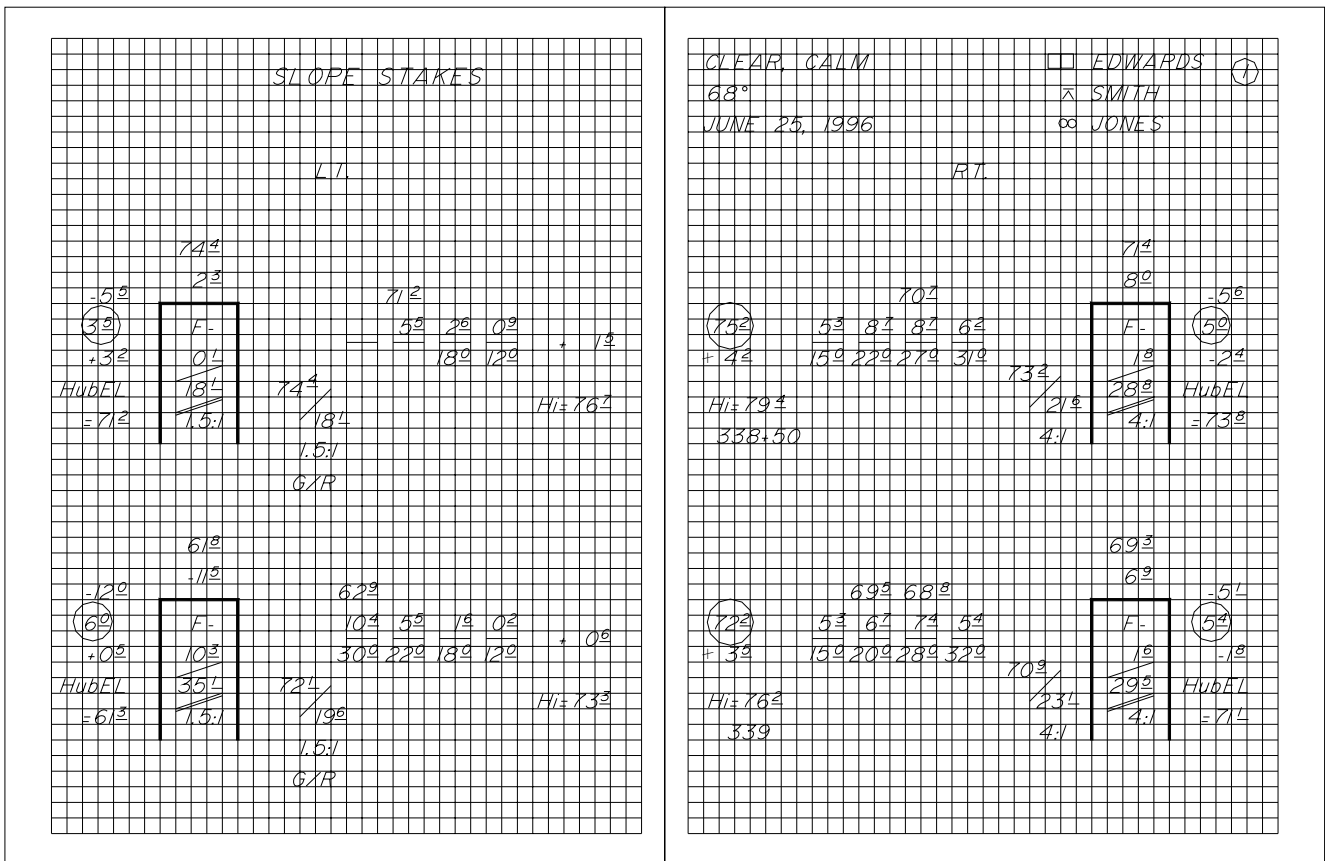
4. Typical alignment notes

- ✓ The Chief of Parties must prepare the alignment book before actual staking.
- ✓ Don't use swing ties for reference points.
- ✓ Use three point right angle ties, two to the right and one left, or vice versa.
- ✓ Reference P.C., P.I., P.T., and P.O.T.



7. Typical slope stake notes

- ✓ Enter the station, elevations, shoulder distance or ditch distances, and slope in the slope stake book before staking begins.
- ✓ In areas where slides or overbreak are anticipated, extend the sections beyond the construction limits.
- ✓ Slope-stake each section that is cross-sectioned.
- ✓ Final re-cross sections are required where there are overbreaks, undercuts, etc. Re-cross section book and page numbers shall be noted on the original cross-section and slope staking page for the relevant stations.
- ✓ Include at least the following information on the stake: (1) where to begin the cut or fill (2) the slope ratio (3) the depth of cut or height of fill and (4) the station.
- ✓ Use a hand level only for one turn up or down from the instrument.
- ✓ Clearly note hand level turns.
- ✓ Use a reference point that is 10-20 feet beyond the slope stake.
- ✓ The reference point must show the cut or fill to the slope stake and must include the slope stake information.
- ✓ Slope stake all abrupt changes in typical sections.
- ✓ Position all laths to face centerline.

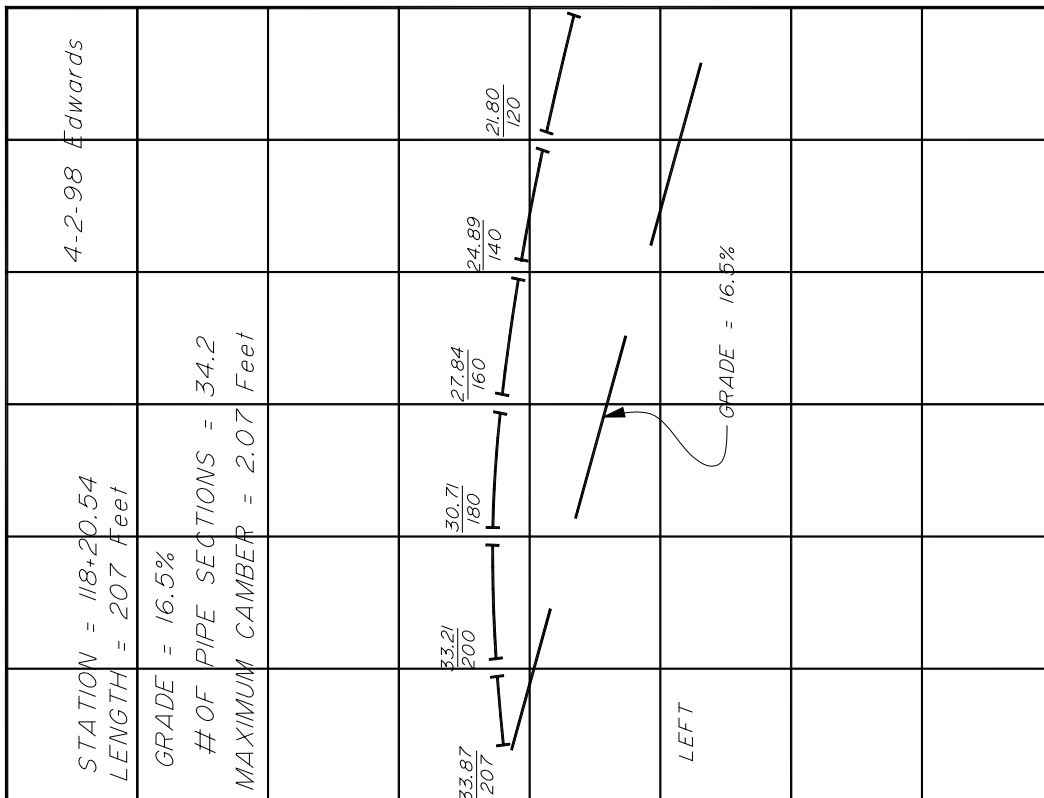
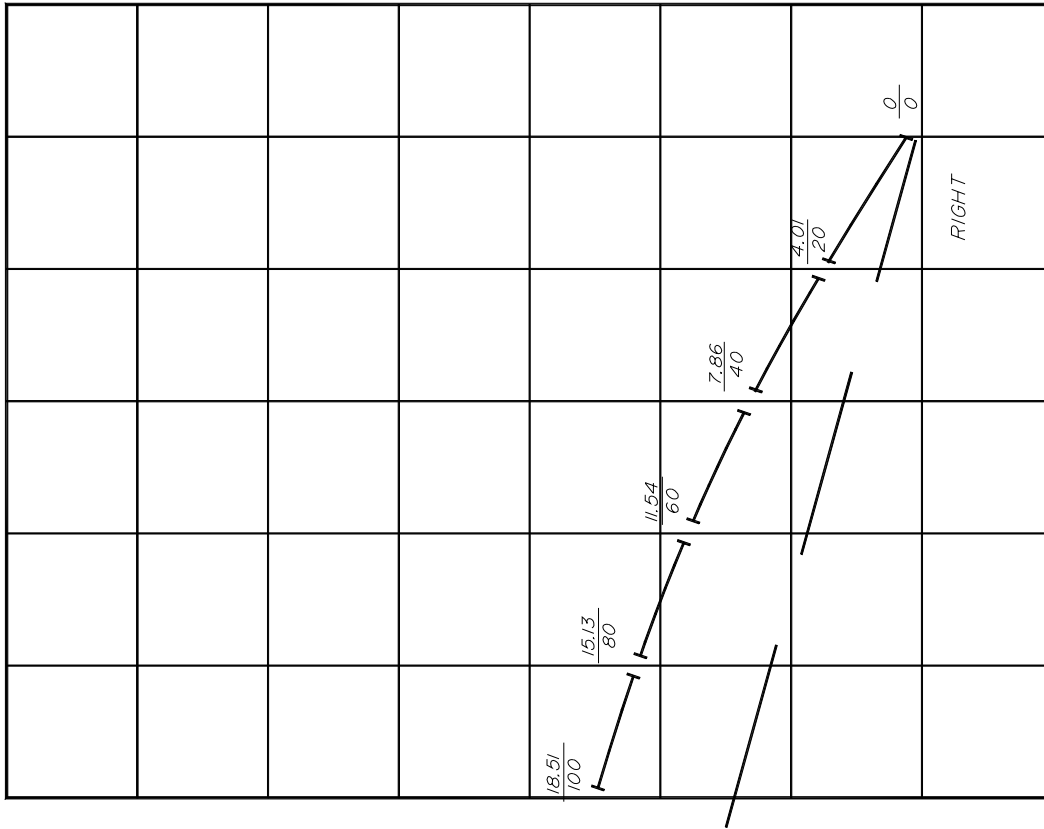


8. Typical culvert notes

- ✓ Show at least the following information on culvert stakes
 - station
 - size
 - length
 - type of pipe (e.g., 24" x 80' CMP)
 - cut or fill from top of hub to inlet & outlet
 - skew angle
 - horizontal distance from hub to end of pipe
 - gradient of pipe
 - drop of pipe
- ✓ Ensure that all culverts have a minimum camber equal to 1% of the length of the pipe, unless the Project Engineer directs otherwise.
- ✓ Develop a culvert camber diagram showing each section of pipe and its elevation and offset.

STA.	+	-	CMP STAKING	ELEV.	52"± OVERCAST L.T. BREEZE	Diagram	Notes
T.B.M. No. 101	871	Hi 6232	IRS	5361	5-25-90		EDWARDS SMITH
① Hub LATH		Z	164 1079	607 C-91 515 F-01		⑦2 Hub OUTLET INVERT=489	
② Hub LATH			1392 1270	484 F-09 496 C-07	343	344+27 24"X60" 5-4.5%	
CMP TRAY (EXISTING)			1345	489 C-09		①79 Hub INLET INVERT=516	
						L=24 L=5-12 0	

9. Typical culvert camber diagram



4-2-98 Edwards

STATION = 118+20.54
LENGTH = 207 Feet

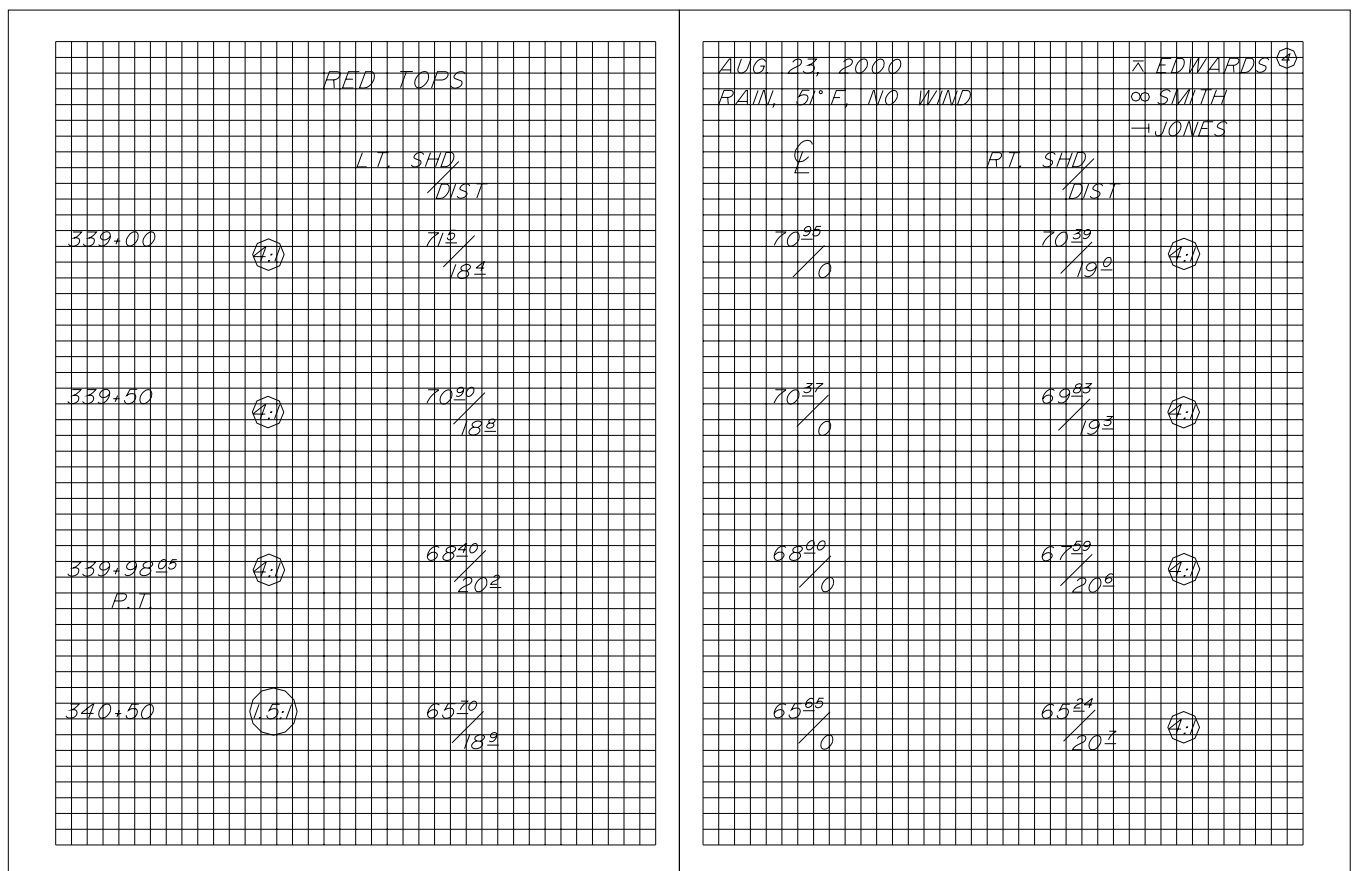
GRADE = 16.5%

OF PIPE SECTIONS = 34.2

MAXIMUM CAMBER = 2.07 Feet

10. Typical blue or red tops and grade stake notes

- ✓ Place blue and red tops at each break in typical section and on centerline.
- ✓ Use blue tops for top of base course.
- ✓ Use red tops for the bottom of the base course.
- ✓ Evenly space red/blue tops at and between crown section break points with a maximum spacing of 25 feet between red/blue tops.
- ✓ Establish horizontal control from centerline references and vertical control from benchmarks.
- ✓ Place blue tops at the same interval as slope stakes.
- ✓ Stake all curve transitions.



APPENDIX C EROSION AND SEDIMENT CONTROL PLAN (ESCP)

The Department of Natural Resources (DNR) Division of Parks and Outdoor Recreation (DPOR) has created this Erosion and Sediment Control Plan (ESCP). This ESCP shall be amended by the Contractor to incorporate the projects material source sites, HMCP, SPCC, and any other modification the contractor determines is necessary.

The Contractor shall use the attached ESCP to meet Alaska Department of Environmental Conservation requirements for construction.

SITE DESCRIPTION:

1. SITE FUNCTION: DENALI BOROUGH RECREATIONAL FACILITY
2. THIS PROJECT INCLUDES EARTHWORK (EXCAVATION AND EMBANKMENT CONSTRUCTION), CONSTRUCTION OF RECREATIONAL TRAILS, INSTALLATION OF SIGNAGE AND PARK FACILITIES.
3. PROJECT AREA: 0.52 ACRES (22,600 SQUARE FEET)
4. PROJECT DISTURBED AREA: 0.52 ACRES (22,600 SQUARE FEET)
5. PERCENT IMPERVIOUS AREA BEFORE CONSTRUCTION: 0%
7. PERCENT IMPERVIOUS AREA AFTER CONSTRUCTION: 0%
8. RUNOFF COEFFICIENT BEFORE CONSTRUCTION: 0.47
9. RUNOFF COEFFICIENT AFTER CONSTRUCTION: 0.47
10. MATERIAL SITES: BORROW, TYPE A MATERIAL AND OTHERS WILL BE OBTAINED FROM CONTRACTOR FURNISHED SITES.
11. EXISTING SOILS CONSIST OF ORGANICS, SILT LOAM, AND GRAVELLY SANDY LOAM

ENVIRONMENTAL INFORMATION:

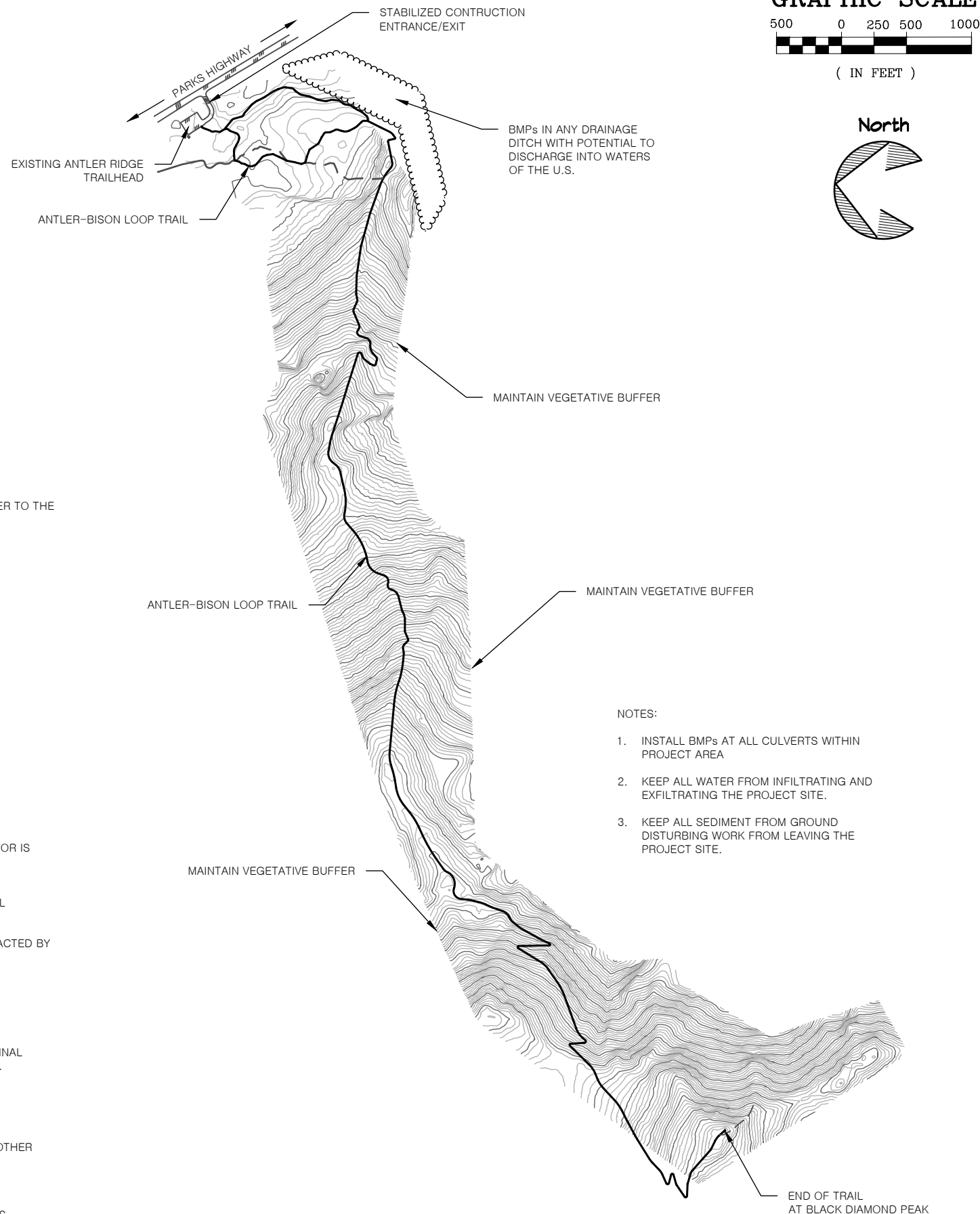
1. RECEIVING WATER BODIES: NO SWPPP
2. IMPAIRED WATER BODIES: NONE
3. TOTAL MAXIMUM DAILY LOAD (TMDL) WATERS: N/A
4. THREATENED AND ENDANGERED SPECIES (ESA): NONE
5. HISTORIC IMPACTS: NONE KNOWN
6. MIGRATORY BIRD TREATY ACT: CLEARING AND GRUBBING ACTIVITIES BETWEEN MAY 1ST AND JULY 15 MAY INTERFERE WITH MIGRATORY BIRDS. REFER TO THE U.S. FISH AND WILDLIFE SERVICE FOR DETAILS.
7. CONTACT THE PROJECT ENGINEER WITH ADDITIONAL QUESTIONS/CONCERNS REGARDING ENVIRONMENTAL MATTERS.

EXPECTED CONSTRUCTION SEQUENCE:

1. INSTALL BMPs
2. HAULING, GRADING, COMPACTING, AND STOCKPILING MATERIAL
3. CONSTRUCTING CLASS 2, 3, AND 5, TRAILS
4. INSTALL SIGNAGE AND PARK FACILITIES
5. REMOVE BMPs

EROSION AND SEDIMENT CONTROL PLAN (ESCP) NOTES:

1. THE ESCP IS A GENERAL PLAN FOR GUIDING THE DEVELOPMENT OF THE CONTRACTOR'S EROSION SEDIMENT CONTROL PLAN (ESCP). THE CONTRACTOR IS EXPECTED TO PROVIDE ADDITIONAL DETAILS AND BEST MANAGEMENT PRACTICES (BMPs) BASED ON THE CONTRACTOR'S ACTUAL SCHEDULE AND CONSTRUCTION METHODS, AND ARE REQUIRED TO COMPLY WITH SECTION 641 OF THE SPECIFICATIONS.
2. SEDIMENT CONTROL MEASURES AND TEMPORARY EROSION CONTROL FEATURES SHALL BE BASED ON BMPs AS CONTAINED IN THE DOT&PF'S MANUAL "CONTRACTOR GUIDANCE FOR PREPARING AND EXECUTING STORMWATER POLLUTION PREVENTION PLANS."
3. THE CONTRACTOR SHALL PROVIDE INLET AND OUTLET PROTECTION FOR ANY DRAINAGE DITCHES, CULVERTS, AND STORM DRAINS THAT MAY BE IMPACTED BY STORMWATER FROM PROJECT ACTIVITIES
4. THE CONTRACTOR SHALL MINIMIZE THE AMOUNT OF DISTURBED AREA OPEN TO EROSION AT ANY ONE TIME.
5. EROSION AND SEDIMENT CONTROL BMPs SHALL BE INSTALLED WITHIN 1 DAYS IN AREAS WHERE EARTHWORK DISTURBANCE HAS TEMPORARILY OR PERMANENTLY CEASED.
6. ALL DISTURBED GROUND CAPABLE OF SUPPORTING VEGETATION SHALL BE REVEGETATED ACCORDING TO SECTION 621 FOR FINAL STABILIZATION. FINAL STABILIZED AREAS NOT REVEGETATED SHALL BE 100% COVERED BY ROCK, ASPHALT, CONCRETE, OR OTHER PERMANENT NON-ERODABLE MATERIAL.
7. TEMPORARY PERIMETER CONTROL BMPs SHALL BE INSTALLED BEFORE ANY UP-GRADIENT SOIL DISTURBANCE OCCURS.
8. PROVIDE PERIMETER CONTROLS IN AREAS NOT SHOWN ON THE PLANS AS NEEDED TO PREVENT SEDIMENT FROM LEAVING THE PROJECT AREA.
9. RETAIN A VEGETATIVE BUFFER STRIP IN UPLAND AREAS WHEREVER POSSIBLE. VEGETATIVE BUFFER STRIPS MAY BE USED IN LIEU OF SILT FENCE OR OTHER TEMPORARY DEVICES PROVIDED THEY ARE OF SUFFICIENT WIDTH FOR THE CATCHMENT AREA.
10. AVOID CONDITIONS WHICH PROMOTE CONCENTRATED FLOWS. INSTALL VELOCITY CONTROL BMPs WHEN CONCENTRATED FLOWS OCCUR.
11. SLOPE PROTECTION MAY INCLUDE SLOPE ROUGHENING, TACKIFYING, EROSION CONTROL BLANKETS, SEEDING, ROCK LINING, OR OTHER METHODS AS APPROVED BY THE PROJECT ENGINEER.
12. ALL STOCKPILES OF ERODIBLE MATERIALS SHALL HAVE PERIMETER CONTROL IN PLACE.



STATE OF ALASKA, DEPARTMENT OF NATURAL RESOURCES
PLANS DEVELOPED BY: DIVISION OF PARKS AND OUTDOOR RECREATION
 550 W 7TH AVE. SUITE 1340, ANCHORAGE, AK 99501 - 907.269.8731

ANTLER-BISON TRAILHEAD
 FACILITY IMPROVEMENTS
 PROJECT No. 91882-1

ESCP



PREPARED: DKM
 DRAWN: DKM
 REVIEWED: KRW
 DATE: 10/07/2025

SHEET
1
 OF 1 SHEETS

**APPENDIX D
MASTER MATERIAL CERTIFICATION
LIST (MCL)**

MATERIALS CERTIFICATION LIST

Specifications	Construction			Design			Statewide	Manufacturer/ Remarks
	Approved Products List	Project Engineer	QA/Materials Engineer	Design Engineer	Bridge Engineer	Traffic Engineer	State Materials Engineer	

Project Name and Number

ANTLER RIDGE TRAILHEAD FACILITY IMPROVEMENTS, PROJECT No. 91882-1

Project Engineer Signature

301 BASE COURSE

Aggregate Base Course, Grading D-1

301-2.01								
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618 SEEDING

Seed Mix

Fertilizer

Mulch

618-2.01								
618-2.01								
618-2.01								

622 PARK FACILITIES - GENERAL

Concrete Mix Design

Structural Steel

Galvanizing

Lumber and Treated Lumber

Fasteners

Signs

Paint

Trail Prescription

Interpretive Kiosk, Type B

622-2.03								
622-2.04								
622-2.05								
622-2.06								
622-2.10								
622-2.13								
622-2.12								
Section 622								
Section 622								

641 EROSION, SEDIMENT, AND POLLUTION CONTROL

Erosion Sediment Control Plan

Hazardous Materials Control Plan

Spill Prevention, Control and Countermeasures Plan

BMP Materials

Additional BMP Materials

641-2.01								
641-2.02								
641-2.03								
641-2.04								
641-2.05								