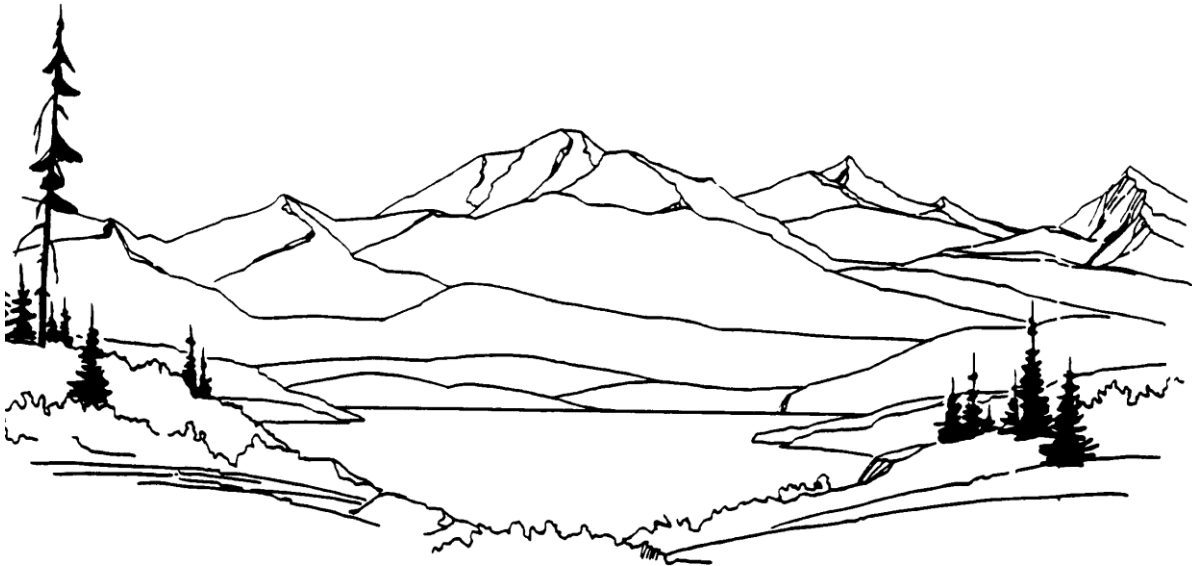


**STATE OF ALASKA  
DEPARTMENT OF NATURAL RESOURCES**

**DIVISION OF PARKS  
AND  
OUTDOOR RECREATION**



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

**CHENA RIVER SRA: UPPER STILES CREEK  
SHOOTING RANGE IMPROVEMENTS  
PROJECT NO. 70011-1**

COPY \_\_\_\_\_



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## 5. Federal Wage Rates

Federal wage rates can be obtained at <https://sam.gov/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.alaska.gov/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.





STATE OF ALASKA  
DEPARTMENT OF NATURAL RESOURCES

**INVITATION TO BID**  
for Construction Contract

Date: September 22, 2026

**Chena River SRA: Upper Stiles Creek Shooting Range Improvements, Project No. 70011-1**

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 13th day of October 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: Near Fairbanks, AK

Contracting Officer: Rys Miranda, P.E.

Issuing Office: DNR, Division of Parks and Outdoor Recreation

State Funded ☐

Federal Aid ☒

Description of Work: Work for this project includes expanding the existing parking lot of the Chena River SRA: Upper Stiles Creek Shooting Range, paving the access road and parking lot, expanding the existing shooting range, and constructing a pavilion for the shooting range.

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 October 29, 2027. 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:

Bidding Documents for Project:

**CHENA RIVER SRA: UPPER STILES CREEK  
SHOOTING RANGE IMPROVEMENTS  
PROJECT NO. 70011-1**

ATTN:

**DNR, Division of Parks and Outdoor Recreation  
550 W. 7th Avenue, Suite 1340  
Anchorage, AK 99501**

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: rys.miranda@alaska.gov 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. Questions may also be submitted through the Bid Express service at [www.bidexpress.com](http://www.bidexpress.com).

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.**  
**Project Manager**  
Email: [katie.winter@alaska.gov](mailto: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. 7<sup>th</sup> Ave., Suite 1340  
Anchorage AK 99501  
E-Mail: [rys.miranda@alaska.gov](mailto: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/dcsspecs/assets/pdf/hwyspecs/sshc2020.pdf](http://www.dot.state.ak.us/stwddes/dcsspecs/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-1gq9j9qk.html>.
  - b. Alaska Test Methods Manual (Lab & Field), May 19, 2025 Edition (\$25.00). Available online at: [www.dot.state.ak.us/stwddes/desmaterials/mat\\_waqtc/testman.shtml](http://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](http://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 7<sup>th</sup> 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 E.
4. Build America, Buy America Act. Effective for Federal award obligations after October 23, 2023, meet the requirements at 2 CFR 184 for construction materials.
5. Electronic Bidding. Electronic bids may be submitted through the Bid Express service at [www.bidexpress.com](http://www.bidexpress.com).
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.
9. Notice to Proceed. The Notice to Proceed will not be issued until March 2027.



STATE OF ALASKA  
DEPARTMENT OF NATURAL RESOURCES

## REQUIRED DOCUMENTS

Federal-Aid Contracts (Non-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 Form (Form 25D-09DNR)
- b. Bid Schedule
- c. Bid Attachments (as applicable)
- d. Addenda Acknowledgement (as applicable)

**2. Bid Bond (Form 25D-14DNR)**

**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-16DNR)**

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**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-5DNR)**

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**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-10HDNR)
- 2. Payment Bond (Form 25D-12DNR)
- 3. Performance Bond (Form 25D-13DNR)
- 4. Contractor's Questionnaire (25D-08DNR)
- 5. Certificate of Insurance (from carrier)
- 6. EEO-1 Certification (Form 25A-304DNR)
- 7. Material Origin Certificate (Form 25D-60)





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

**Chena River SRA: Upper Stiles Creek Shooting Range Improvements, Project No. 70011-1**

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,<br>ADDRESS,<br>PHONE NO. | AK BUSINESS LICENSE NO.,<br>CONTRACTOR'S<br>REGISTRATION NO. | SCOPE OF WORK TO BE<br>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:

---

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---

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

**Chena River SRA: Upper Stiles Creek Shooting Range Improvements, Project No. 70011-1**

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 October 13, 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 Fairbanks, 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 October 29, 2027, 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<br>Number | Date<br>Issued | Addenda<br>Number | Date<br>Issued | Addenda<br>Number | Date<br>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: Chena River SRA: Upper Stiles Creek Shooting Range Improvements

Project Number: 70011-1

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 ***** |                                        |          |           |                |            |
| 201.0003.0000         | Clearing and Grubbing                  | Acre     | 1.5       | \$             | \$         |
| 202.0001.0000         | Removal of Structures and Obstructions | L.S.     | All Req'd | \$(Lump Sum)   | \$         |
| 203.0003.0000         | Unclassified Excavation                | C.Y.     | 2,300     | \$             | \$         |
| 203.0005.000A         | Borrow, Type A                         | C.Y.     | 2,200     | \$             | \$         |
| 203.0005.000C         | Borrow, Type C                         | C.Y.     | 250       | \$             | \$         |
| 301.0001.00D1         | Aggregate Base Course, Grading D-1     | Ton      | 1,950     | \$             | \$         |
| 401.0001.002B         | Hot Mix Asphalt, Type II; Class B      | Ton      | 300       | \$             | \$         |
| 603.0001.0024         | CSP 24 Inch                            | L.F.     | 32        | \$             | \$         |
| 603.0003.0024         | End Section for CSP 24 Inch            | Each     | 2         | \$             | \$         |

BID SCHEDULE  
Chena River SRA: Upper Stiles Creek  
Shooting Range Improvements  
Project No. 70011-1

Name of Bidding Firm \_\_\_\_\_

| Pay Item Number                | Pay Item Description                                            | Pay Unit | Quantity  | Unit Bid Price | Amount Bid  |
|--------------------------------|-----------------------------------------------------------------|----------|-----------|----------------|-------------|
| ***** CONTINUE BASIC BID ***** |                                                                 |          |           |                |             |
| 615.0001.0000                  | Standard Sign                                                   | S.F.     | 32        | \$             | \$          |
| 618.0002.0000                  | Seeding                                                         | LB       | 33        | \$             | \$          |
| 620.0001.000B                  | Topsoil, Class B                                                | S.Y.     | 2,500     | \$             | \$          |
| 622.2018.00DE                  | Double Entrance Gate                                            | Each     | 1         | \$             | \$          |
| 622.2019.0000                  | Shooting Range Bench                                            | Each     | 10        | \$             | \$          |
| 622.2020.0000                  | Shooting Range Pavilion                                         | Each     | 1         | \$             | \$          |
| 640.0001.0000                  | Mobilization and Demobilization                                 | L.S.     | All Req'd | \$(Lump Sum)   | \$          |
| 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 | \$10,000.00    | \$10,000.00 |
| 641.0006.0000                  | Withholding                                                     | C.S.     | All Req'd | \$0.00         | \$0.00      |
| 642.0001.0000                  | Construction Surveying                                          | L.S.     | All Req'd | \$(Lump Sum)   | \$          |
| 642.0003.0000                  | Three Person Survey Party                                       | Hour     | 10        | \$             | \$          |
| 643.0002.0000                  | Traffic Maintenance                                             | L.S.     | All Req'd | \$(Lump Sum)   | \$          |
| 647.0006.0000                  | Hydraulic Excavator, 1 CY, 100 HP Minimum                       | Hour     | 10        | \$             | \$          |
| 670.0001.0000                  | Painted Traffic Markings                                        | L.S.     | All Req'd | \$(Lump Sum)   | \$          |
| TOTAL BASIC BID                |                                                                 |          |           |                | \$          |

No: \_\_\_\_\_ Expires \_\_\_\_\_

Alaska Business License

BID SCHEDULE

Chena River SRA: Upper Stiles Creek

Shooting Range Improvements

Project No. 70011-1

No: \_\_\_\_\_ Expires \_\_\_\_\_

Alaska Contractor's License

Name of Bidding Firm \_\_\_\_\_



STATE OF ALASKA  
DEPARTMENT OF NATURAL RESOURCES

## CONSTRUCTION CONTRACT

**Chena River SRA: Upper Stiles Creek Shooting Range Improvements, Project No. 70011-1**

**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: **October 29, 2027** or within N/A 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 **Per Section 108-1.07** dollars (**\$Per Section 108-1.07**) 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 \$ 100% of Contract Payment Bond, and \$ 100% of Contract 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

**Chena River SRA: Upper Stiles Creek Shooting Range Improvements, Project No. 70011-1**

**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

**Chena River SRA: Upper Stiles Creek Shooting Range Improvements, Project No. 70011-1**

**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

**Chena River SRA: Upper Stiles Creek Shooting Range Improvements, Project No. 70011-1**

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):

|                    |                  |                  |
|--------------------|------------------|------------------|
| <b>A.</b>          | <b>B.</b>        | <b>C.</b>        |
| <br><br><br><br>   | <br><br><br><br> | <br><br><br><br> |
| 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)<br>& Title(s)<br>(Typed) | 1. | 2. | 3. |

See Instructions on Reverse

Corporate  
Seal

**CORPORATE SURETY(IES)**

|                                |                     |                        |                       |
|--------------------------------|---------------------|------------------------|-----------------------|
| <b>Surety A</b>                | Name of Corporation | State of Incorporation | Liability Limit<br>\$ |
| Signature(s)                   | 1.                  | 2.                     | Corporate<br>Seal     |
| Name(s)<br>& Titles<br>(Typed) | 1.                  | 2.                     |                       |

|                                |                     |                        |                       |
|--------------------------------|---------------------|------------------------|-----------------------|
| <b>Surety B</b>                | Name of Corporation | State of Incorporation | Liability Limit<br>\$ |
| Signature(s)                   | 1.                  | 2.                     | Corporate<br>Seal     |
| Name(s)<br>& Titles<br>(Typed) | 1.                  | 2.                     |                       |

|                                |                     |                        |                       |
|--------------------------------|---------------------|------------------------|-----------------------|
| <b>Surety C</b>                | Name of Corporation | State of Incorporation | Liability Limit<br>\$ |
| Signature(s)                   | 1.                  | 2.                     | Corporate<br>Seal     |
| Name(s)<br>& Titles<br>(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

## BID MODIFICATION

**Chena River SRA: Upper Stiles Creek Shooting Range Improvements, Project No. 70011-1**

**Project Name and Number**

Modification Number: \_\_\_\_\_

Note: Use this form to modify Manual (paper) bids only.

- Group items and provide subtotals by bid schedule section.
- All revisions shall be made to the unadjusted bid amount(s).
- Changes to the adjusted bid amounts will be computed by the Department.

| LINE NO. | ITEM NO. | PAY ITEM DESCRIPTION | REVISION TO UNIT BID PRICE +/- | REVISION TO BID AMOUNT +/- |
|----------|----------|----------------------|--------------------------------|----------------------------|
|          |          |                      |                                |                            |
|          |          |                      |                                |                            |
|          |          |                      |                                |                            |
|          |          |                      |                                |                            |
|          |          |                      |                                |                            |
|          |          |                      |                                |                            |
|          |          |                      |                                |                            |
|          |          |                      |                                |                            |
|          |          |                      |                                |                            |
|          |          |                      |                                |                            |
|          |          |                      |                                |                            |
|          |          |                      |                                |                            |
|          |          |                      |                                |                            |
|          |          |                      |                                |                            |
|          |          |                      |                                |                            |
|          |          |                      |                                |                            |
|          |          |                      |                                |                            |
|          |          |                      |                                |                            |
|          |          |                      |                                |                            |
|          |          |                      |                                |                            |

**TOTAL REVISION: \$** \_\_\_\_\_

\_\_\_\_\_  
**Name of Bidding Firm**

\_\_\_\_\_  
**Responsible Party Signature**

\_\_\_\_\_  
**Date**

This form may be duplicated if additional pages are needed





## MATERIAL ORIGIN CERTIFICATE

Federal-Aid Contracts

Project Name and Number: Chena River SRA: Upper Stiles Creek Shooting Range Improvements, Project No. 70011-1

| FOREIGN CONSTRUCTION MATERIALS<br>AND PRODUCTS <sup>1</sup> | COUNTRY OF ORIGIN | COST <sup>2</sup> |
|-------------------------------------------------------------|-------------------|-------------------|
|                                                             |                   |                   |
|                                                             |                   |                   |
|                                                             |                   |                   |
|                                                             |                   |                   |
|                                                             |                   |                   |
|                                                             |                   |                   |
|                                                             |                   |                   |
|                                                             |                   |                   |
|                                                             |                   |                   |
|                                                             |                   |                   |
|                                                             |                   |                   |

I certify under penalty of law that all construction materials, steel products, and iron products to be furnished for this project are manufactured in the United States, and comply with the requirements of Public Law No. 117-58, Sections 70901-52, 23 CFR 635.410, and Contract subsection 106-1.01, Buy America Provisions; except for those foreign construction materials and products that are listed on this page or on a separate and clearly identified attachment.<sup>3</sup> The term “manufactured in the United States” is defined in Contract subsection 106-1.01, Buy America Provision.

I certify that I have knowledge that submitting false statements and/or information may result in civil and criminal penalties.

\_\_\_\_\_  
Authorized Corporate Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Contractor's Company Name

\_\_\_\_\_  
Position Title

Form 25D-60 Instructions:

1. Enter "NONE" on the first line if there are no exceptions.
2. Invoice cost for foreign construction materials, steel products, and iron products as delivered to the project including freight.
3. When the Contractor becomes aware of a change from or error in a previously submitted Material Origin Certificate, the Contractor shall submit an updated Material Origin Certificate. The Department of Transportation and Public Facilities shall not accept or approve any Material Origin Certificate over the limit specified in the contract.
4. Attach additional complete form sheets if necessary to include more than one page of materials and products.



STATE OF ALASKA  
DEPARTMENT OF NATURAL RESOURCES

**EEO-1 CERTIFICATION**  
Federal-Aid Contracts

**Chena River SRA: Upper Stiles Creek Shooting Range Improvements, Project No. 70011-1**  
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                                           | ( )<br>Phone Number                                  |



# **SPECIAL PROVISIONS**

to the

STATE OF ALASKA

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

**CHENA RIVER SRA: UPPER STILES CREEK**

**SHOOTING RANGE IMPROVEMENTS**

**PROJECT NUMBER 70011-1**



## **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.** Add the following after the second paragraph: Material Reports and/or Soils Investigation Reports are found in Appendix D. (01/01/05)PARKS-Special Provision

**SECTION 103**  
**AWARD AND EXECUTION OF CONTRACT**

**104-1.01 INTENT OF CONTRACT.**

Replace the second paragraph with the following:

The Contractor is responsible for the means, methods, techniques, sequence, and procedures of construction, safety, and quality control. This includes ensuring safety and overseeing the safety of all personnel and Subcontractors. In the event of a multi-employer site, the Contractor is the controlling employer responsible for coordinating site-wide safety efforts, ensuring compliance with applicable safety regulations, and mitigating potential hazards across all employees, Subcontractors or suppliers on the site, consistent with any applicable federal, state, and local laws, rules, regulations, and ordinances.

HSM20.53-25.0610

## **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

### **105-1.05 COOPERATION BY CONTRACTOR.**

Replace the second paragraph with the following:

Either the Contractor's Superintendent or an acting Superintendent with authority to represent and act for the Contractor shall be available on-site, or within a reasonable distance to ensure timely response and oversight of the project whenever work is occurring. The Contractor shall employ, as its agent, a competent superintendent thoroughly experienced in the work being performed and capable of reading and thoroughly understanding the Plans and Specifications.

The Contractor shall be responsible for maintaining a safe work environment, ensuring compliance with all applicable safety regulations, and overseeing the safety of all work being performed. The Superintendent shall have the Contractor's authority to stop work and implement immediate corrective action if safety concerns arise, or if the work is not being performed in accordance with the Contract documents.

The Contractor shall provide 24-hour contact information for the Superintendent. The Contractor shall ensure that the superintendent is available at all times to receive and execute Directives and other instructions from the Engineer, to supervise personnel and to coordinate the work of subcontractors. The Contractor shall give the superintendent full authority to supply the resources required. The Contractor shall furnish superintendence regardless of the amount of work sublet.

**HSM20.52-25.0610**

Add the following Subsection 105-1.011 Related Sections:

### **105-1.011 RELATED SECTIONS.**

Section 651, Control of Work – Supplemental Requirements

**C105.5-16.0128-2**

### **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

## **SPECIAL PROVISIONS**

Chena River SRA: Upper Stiles Creek  
Shooting Range Improvements  
Project No. 70011-1

until the Contractor receives a letter of substantial completion. (03/09/17) PARKS-Special Provision

#### **105-1.15 PROJECT COMPLETION.**

Replace the 1<sup>st</sup> sentence in the 3<sup>rd</sup> 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**

### **106-1.01 SOURCE OF SUPPLY AND QUALITY REQUIREMENTS.**

Replace the fourth paragraph of 106-1.01 with the following:

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

#### **SPECIAL PROVISIONS**

Chena River SRA: Upper Stiles Creek  
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and ordered removed under the Subsection 105-1.11.

Replace the BUY AMERICA PROVISION with the following:

**DOMESTIC MATERIALS PREFERENCE PROVISION.** On projects using federal-aid funds the Contractor shall ensure all Iron and Steel Products, Manufactured Products, and Construction Materials, incorporated into the project are produced in the United States as required by 23 CFR 635.410-Buy America requirements (Iron, Steel, and Manufactured Products), and 2 CFR 184-Buy America Preferences for Infrastructure Projects (Construction Materials).

Domestic material requirements apply when articles, materials, or supplies are permanently incorporated into the work. Domestic material requirements do not apply to articles, materials, or supplies: (i) brought temporarily to the construction site and removed at or before the completion of the project, e.g., tools, construction equipment, Jersey barriers; or (ii) used by the Contractor to facilitate construction that are left in place upon completion of the work and are not required to be permanently installed as part of the contract requirements.

An article, material, or supply shall only be classified as an iron or steel product, a manufactured product, a construction material, or other material. An article, material, or supply shall not be considered to fall into multiple categories.† The classification of an article, material, or supply as falling into one of the categories listed must be made based on its status at the time it is brought to the work site for incorporation into the project. The work site is the location of the project at which the articles, material, or supply will be incorporated.

†As addressed in paragraph 3) below, 23 CFR 635.410(c)(2) creates an exception to the single category requirement regarding precast concrete products (Precast Concrete) and intelligent transportation systems (ITS) and other electronic hardware systems cabinets and other enclosure.

#### **DOMESTIC MATERIAL CATEGORIES:**

**1) IRON AND STEEL PRODUCTS (23 CFR 635.410).** Defined as articles, materials, or supplies that consist wholly or predominantly of iron and steel or a combination of both. To be classified as domestic, all manufacturing processes, from the initial melting stage through the application of coatings, occurred in the United States.

If the cost of iron and steel content of an article, material, or supply exceeds 50 percent of the total cost of all components, the iron and steel must meet the domestic materials requirements of the Iron and Steel Products of this provision. The remaining components are then exempt from any domestic procurement requirement.

The cost of iron or steel is the cost of the iron and 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. Buy America

#### **SPECIAL PROVISIONS**

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requirements do not apply to iron ore, pig iron, and processed, pelletized and reduced iron ore.

Iron and Steel Minimal Use:

All wholly or predominantly iron and steel, or a combination of both, products incorporated into the work, shall be manufactured in the United States. Minimal amounts of iron and steel products of foreign or unknown 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 (established at award), 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.

**2) CONSTRUCTION MATERIALS (2 CFR 184).** Defined as the articles, materials, or supplies that consist of only one of the items listed. Each material has a specific standard to be considered in compliance with domestic materials requirements. The items are:

- a. Non-ferrous metals. All manufacturing processes, from initial smelting or melting through final shaping, coating, and assembly, occurred in the United States.
- b. Plastic and Polymer-based products (including polyvinylchloride, composite building materials, and polymers used in fiberoptic cables). 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.
- c. Glass (including optic glass). All manufacturing processes, from initial batching and melting of raw materials through annealing, cooling, and cutting, occurred in the United States.
- d. Fiber Optic Cable (including drop cable). All manufacturing processes, from the initial ribboning (if applicable), through buffering, fiber stranding and jacketing, occurred in the United States. All manufacturing processes also include the standards for glass and optical fiber, but not for non-ferrous metals, plastic and polymer-bases products, or any others.
- e. Optical Fiber. All manufacturing process, from the initial preform fabrication stage through the completion of the draw, occurred in the United States.
- f. Lumber. All manufacturing processes, from initial debarking through treatment and planning, occurred in the United States.
- g. 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.
- h. 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 a Construction Material contains, as minor additions, 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

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not change the categorization of the construction material.

**3) MANUFACTURED PRODUCTS (23 CFR 635.410).** Defined as 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. Manufactured products are acceptable under this provision if the product was manufactured in the United States. For the purposes of this provision, "manufactured in the United States" means that the final assembly of the product occurred in the United States.

For Precast Concrete and ITS and other electronic hardware systems cabinets and other enclosures that are classified as manufactured products, the components that are predominantly steel or iron or a combination of both must comply with the domestic materials requirements of the Iron and Steel Products in paragraph 1) above.

Declare all manufactured products on Form 25D-62 regardless of their exemption.

**4) OTHER MATERIALS.** Defined as articles, materials, or supplies that do not meet the definition of Iron and Steel Products, Manufactured Products, or Construction Materials. These materials do not have any requirements for domestic sourcing. This includes the following items that are specifically categorized as other (excluded) materials per BABA Section 70917(c) of the Infrastructure Investment and Jobs Act of 2021.

1. Cement and cementitious materials;
2. Aggregates such as stone, sand, or gravel; or
3. Aggregate binding agents or additives

The Contractor shall submit a completed Non-Compliant Minimal Use & 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 prior to incorporating the non-compliant item on the subject federal-aid Project, (as defined by the NEPA decision).

The Contractor shall submit a completed Certificate of Domestic Materials Compliance Form 25D-62 for all materials incorporated into the project. The Department will not allow installation of, nor pay for, products that must comply with Domestic Materials requirements until the Contractor has submitted acceptable Forms 25D-60 and 25D-62.

Non-compliant Iron and Steel Products, Manufactured Products, and Construction Materials in Excess of the minimal use and/or the de minimis amounts are prohibited and shall be immediately replaced at no expense to the State. Failure to comply may also subject the Contractor to default, suspension, or debarment.

The entity certifying Form 25D-62 may be the manufacturer, fabricator, vendor, or supplier; provided they have sufficient control and knowledge of the manufacturing

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process to accept responsibility and certify full and complete conformance with 23 CFR 635.410, 2 CFR 200.322, and 2 CFR 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 Domestic Materials requirements.

De Minimis Waiver:

Notwithstanding the domestic materials requirements outlined in this section regarding Manufactured Products and Construction Materials, US DOT has adopted a limited, non-domestic content waiver regarding articles, materials, and supplies used in the project. As applicable here, US DOT has determined that it is in the public interest to waive domestic materials requirement for Manufactured Products and Construction Materials for which:

The total value of the non-compliant products is no more than the lesser of \$1,000,000 or 5% of total applicable costs for the project. In applying the waiver:

1. "Total value of non-compliant products" does not include the value of those products subject to a separate Buy America Waiver.
2. "Total applicable project cost" (as defined by the NEPA finding, determination, or decision and referenced in Form 25D-60) include the cost of materials used in the project that are subject to a domestic preference requirement, including materials that are within the scope of an existing waiver.

*("Total value of non - compliant products" (Construction Materials + Manufactured Products))*

*("Total applicable project costs" (Iron + Steel + Manufactured Products + Construction Materials))*

*x100*

**HSP20.7B-25.1030**

**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**

Chena River SRA: Upper Stiles Creek

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## **106-1.05 CERTIFICATES OF COMPLIANCE.**

Replace the first four paragraphs of 106-1.05 with the following:

A certificate of compliance must meet one of the following:

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

**HSP20.7B-25.1030**

**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.

(03/01/24)PARKS-Special Provision

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.

**C107.2-21.0701**

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.

**C107.5-17.1201-1**

**107-1.06 SANITARY, HEALTH, AND SAFETY PROVISIONS.**

Replace the fourth paragraph with the following:

The Contractor is responsible for ensuring all workers are adequately protected. The Contractor shall have a safety and health management program that complies with AKOSH requirements, and includes:

1. A Site Specific Safety Plan(s) (SSSP) prior to the commencement of work. This plan must outline the safety measures and procedures to be followed on-site, ensuring compliance with all applicable federal, state, and local safety regulations.
2. The SSSP shall be accessible to all contractor personnel and subcontractors, and provided to the Department upon request.

**SPECIAL PROVISIONS**

Chena River SRA: Upper Stiles Creek  
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3. A hazard analysis prior to the commencement of work. It must specifically focus on the job functions and the hazards associated with performing them. The contractor is responsible for ensuring that all necessary personnel are informed of and follow the hazard analysis guidelines.
4. New employee training and periodic worker training regarding safety and health.
5. Regular safety meetings with written documentation of attendance, safety topics discussed, worker safety complaints, and corrective actions taken; and
6. The Contractor shall implement a comprehensive Safety Program to oversee site safety, including the development and maintenance of the SSSP, hazard analysis, employee training, and safety meetings. The program must ensure compliance with safety regulations and promote a proactive safety culture. For specific tasks, refer to Subsection 108-1.03.

**HSM20.49-25.0610**

#### **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.

**C107.3-17.0515**

#### **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.

**C107.3-17.0515**

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,

#### **SPECIAL PROVISIONS**

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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.

C107.1-18.1001

## **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).

**HSM20.41-22.0101**

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;

**C108.4-20.0101**

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

Replace item 9. with the following: The Contractor shall provide a letter designating a

### **SPECIAL PROVISIONS**

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Safety Officer, and designating that person's responsibilities and authority. The Safety Officer is responsible for the Safety Program. The Safety Officer must be familiar with the project plans, specifications, and proposed operations and have the necessary experience and training to assess and address safety elements associated with the project.

Add the following:

10. The Contractor shall implement a comprehensive Safety Program for the Project to ensure all safety measures are met throughout the duration of the project and that the program complies with all applicable federal, state, and local safety regulations.

Requirements. The Safety Program shall include the development, implementation, and ongoing maintenance of the Site-Specific Safety Plan (SSSP), along with the preparation and regular updating of hazard analyses to identify and mitigate risks associated with specific construction activities. It shall ensure that the site complies with project-specific safety requirements, OSHA/AKOSH regulations, and oversees the appropriate use of personal protective equipment (PPE) on-site.

The program will involve routine safety inspections to identify hazards, site-specific safety orientations, and ensure all personnel and Subcontractors receive the necessary training in accordance with AKOSH/OSHA standards. It will also establish procedures for investigating incidents, injuries, and near misses, with corrective actions implemented as needed. Detailed records, such as safety meeting minutes, training logs, incident reports, safety audits, and inspections shall be maintained. Safety reports shall be submitted to the project manager, engineers, or clients as requested.

The Safety Program shall have clear procedures for halting work and implementing immediate corrective actions if safety concerns arise, or if the work is not being conducted in compliance with the Contract documents, safety standards, or applicable federal, state, and local laws.

HSM20.50-25.0610

**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                     | 1,000,000        | \$1,500      |
| 1,000,000                | 5,000,000        | 2,900        |
| 5,000,000                | 25,000,000       | 5,500        |
| 25,000,000               | -----            | 6,900        |

HSM20.43A-24.0701-1

## **SECTION 109 MEASUREMENT AND PAYMENT**

### **109-1.01 GENERAL.**

Replace the 2<sup>nd</sup> 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.

**C109.4-20.0101**

### **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.

**C109.2-18.1101**

### **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

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transferred the necessary funds into escrow, the Department will proceed to issue final payment.

HSM20.3-20.1130-1

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

**120-1.01 DESCRIPTION.**

In the first sentence of the second paragraph, replace "8.83 percent" with "9.39 percent".

HSM20.21A-24.0415

**120-3.01 DETERMINATION OF COMPLIANCE.**

2. Phase II – Award.

- a. Written DBE Commitment. Delete in its entirety and substitute the following:  
Complete Form 25A-326 for each DBE to be used on the project.

HSM20.21A-24.0415

## SECTION 201 CLEARING AND GRUBBING

### 201-3.01 GENERAL.

Add the following:

Timber for Public Removal. Cut timber, with a 5-inch diameter or larger at breast height, into 8 foot lengths, de-limbed, and stacked to a height no greater than 6 feet. Place the stacks at locations shown in the Plans, included in Specifications or at other locations approved by the Engineer. Make locations adjacent to the nearest turnout, side street, or other approved site that does not create a traffic hazard due to lack of adequate parking for the public. Access to the site(s) shall be maintained and controlled by flaggers, in accordance with Subsection 643-3.04. The Contractor shall provide and maintain a separate firewood telephone hotline that details when and where the wood is available to the public. Special Construction signs, in accordance with Subsection 643-2.01, shall be used to advertise the firewood telephone hotline. Provide two weeks for the public to access each area of the project where timber is made available. Dispose of the timber left by the public after the two week time period.

Mechanical loading by the public is not permitted.

#### C201.2-14.0101

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.

#### C201.3-13.0423

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.

#### C201.1-14.0101

**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

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## **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.

**C201.2-14.0101**

Add the following:

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

**C201.3-13.0423**

Add the following:

Material from screening and tub grinding incorporated into the project as topsoil will be paid for as topsoil under Section 620. Screening and tub grinding operations shall be subsidiary to Section 620 items.

Material not incorporated into the project and is disposed of offsite shall be subsidiary to clearing and grubbing items.

(05/06/11)PARKS-Special Provision

## SECTION 202 REMOVAL OF STRUCTURES AND OBSTRUCTIONS

**202-1.01 DESCRIPTION.** Replace the first sentence with the following: This work shall consist of, but not be limited to, the removal of the **single entrance gate, wooden shooting range bollards, metal shooting range benches, sign and sign assembly** structures and any other obstructions which are not designated or permitted to remain, except for the obstructions to be removed and disposed of under other items in the contract. (04/14/26)PARKS-Special Provision

Add the following:

Materials which are designated to be salvaged and remain the property of the Division of Parks and Outdoor Recreation are the **single entrance gate and metal shooting range benches**. By arrangement with the Engineer, deliver salvaged materials to:

Northern Region Maintenance Shop  
Chena Hot Springs Road  
Fairbanks, AK 99712

(04/14/26)PARKS-Special Provision

Add the following Subsection 202-3.06 Salvage and Disposal of Construction and Demolition Materials:

**202-3.06 SALVAGE AND DISPOSAL OF CONSTRUCTION AND DEMOLITION MATERIALS.** Unless otherwise noted, remove, handle, salvage, transport, store, and dispose waste materials according to the Occupational, Safety, and Health Administration (OSHA), Environmental Protection Agency (EPA), Alaska Department of Environmental Conservation (ADEC), and other Federal, State and local government agency's statutes, rules and regulations.

Use disposal sites outside the project limits unless directed otherwise, in writing, by the Engineer. Obtain written consent from the private or public property owner for such disposal and a waiver of all claims against the State for any damage to such land which may result, together with all permits required by law for such disposal. Furnish a copy of such permission, waiver of claims, and permits to the Engineer before commencing work. Grade disposal areas to drain.

C202.1-20.0401

**SECTION 203  
EXCAVATION AND EMBANKMENT**

**203-3.04 COMPACTION WITH MOISTURE AND DENSITY CONTROL.**

In the second paragraph delete "and ATM 214".

**HSM20.5-20.1130-1**

Add the following Subsections:

**203-3.06 MOUND CONSTRUCTION.** Mound size and shape will be field located by the Engineer. Mound slopes shall be smooth and shapes irregular, with no slopes steeper than 1.5:1. The shooting range perimeter mounds are intended to be constructed with Selected Material, Type D (Subsection 703-2.07) obtained from excavation. No excavated material shall leave the site. Material from clearing and grubbing shall not be used. After Selected Material, Type D is exhausted then Borrow, Type C shall be used in construction of the mounds.

(04/14/26)PARKS-Special Provision

**203-4.01 METHOD OF MEASUREMENT.**

Add the following: Mound construction will not be measured directly for payment but will be considered subsidiary to other Section 203 items. (01/31/94)PARKS-Special Provision

Replace Section 204 with the following:

## **SECTION 204**

### **STRUCTURE EXCAVATION FOR CONDUITS AND MINOR STRUCTURES**

**204-1.01 DESCRIPTIONS.** Excavate and backfill for conduits (pipe culverts, structural plate pipe, pipe arches, storm drains, underdrains, and electrical conduits), headwalls, manholes, inlet boxes, and other minor structures.

Dewater ground water from work areas. Construct and maintain temporary water diversion when working in waterways, and for facilities or structures with active drainage.

Perform all pumping, bailing, draining, sheeting, bracing, and incidentals required for proper execution of the work.

**204-2.01 MATERIALS.** Use materials that conform to the following:

|                          |                     |
|--------------------------|---------------------|
| Selected Material        | Subsection 703-2.07 |
| Porous Backfill Material | Subsection 703-2.10 |

1. Structure Backfill and Bedding Material.

a. Selected Material, Type A.

- (1) Material passing the 1-inch sieve.
- (2) Material passing the 1/2-inch sieve for plastic conduits less than 8 inches in diameter.

b. Porous Backfill Material.

Uniform porous backfill material for underdrain conduit.

- (1) Material passing the 1-inch sieve for conduit 3-inch to 10-inch diameters.
- (2) Material passing the 2-inch-sieve for conduit 12-inch to 60-inch diameters.

2. Backfill Material: Selected Material Type C

In the roadbed structure use backfill material meeting the requirements of the roadbed structure, except use the structure backfill material and bedding as specified herein.

Use all suitable material from the project excavation for bedding, structure backfill, and backfill material before using material from another source.

**204-3.01 CONSTRUCTION REQUIREMENTS.** Clear and grub prior to starting excavation according to the requirements of Section 201.

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Keep the work areas dewatered and divert water when working in a waterway or active drainage in accordance with Subsection 204-3.02.

Remove unsuitable foundation material (in accordance with Subsection 203-3.01), including rock or other unyielding material, below the designed elevation as directed, except no less than 6 inches, and replace with approved material.

Place bedding material to a minimum thickness of 4 inches, except 6-inch minimum thickness for conduit over rock or unyielding material, and below electrical conduit, unless shown otherwise in the plans.

Place the bedding material to provide uniform support for conduit with the material in the middle one-third loosely placed and not compacted. Do not shape the bedding to the curvature of the round conduits. Shape the bedding for pipe arches, horizontal ellipse, and underpass shapes with spans exceeding 12 feet. Provide a minimum shaped width one-half the span of the pipe arch and underpass shapes and one-third the span of horizontal ellipse shape. Shape the bedding to the relatively flat bottom arc or fine-grade the foundation to a slight "V" shape.

Place minor precast concrete structures, other than conduits, on the 4-inch bedding/leveling course, of uniform stiffness and thickness with even compaction throughout.

Place the structure backfill over the bedding each side of the structure to 12 inches above the structure or the ground surface if less than 12 inches, except 6 inches above electrical conduit.

Place the structure backfill and backfill material in uniform layers not more than 6 inches deep. Do not create unbalanced loading with the placement of the structure backfill materials. When placing material against concrete, place the material according to the requirements of Section 550.

Compact the materials, each layer, without ponding or jetting to meet Subsection 203-3.04. In the haunch area, each side of the conduit, compact the material by firmly tamping into place.

Outside the roadbed structure, the Engineer may visually inspect and approve the excavation, bedding, structure backfill, backfill material, and compaction.

Support and protect existing conduits or utilities, not scheduled for removal or abandonment, when encountered in the excavation.

Remove all sheeting and bracing used in structure excavation upon completion of the work.

**204-3.02 DEWATERING AND WATER DIVERSION.** Submit a plan for work area

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dewatering and each waterway diversion, 14 days before related construction activities. Do not implement the plan without written approval. Include the permit requirements in the plan.

1. Do not exceed State of Alaska water quality standards.
2. Do not divert water from dewatering into a waterway.
3. Provide an approved disposal site for work area excess water. Maintain disposal site a minimum of 100 ft from waterway.
4. Prevent turbid water from directly entering waterways.
5. Do not divert water onto the roadway.
6. In addition to other equipment required to complete the temporary water diversion and dewatering work, maintain a minimum of two trash pumps with hoses at the site during diversion construction activities. Maintain the intake to prevent fish entrapment, entrainment, or injury with the use of perforated or slotted plate and woven wire with a mesh size not greater than 3/32 inch or a profile bar and wedgewire with openings not greater than 1/16 inch. Do not exceed passive approach velocity of 0.2 fps and active approach velocity of 0.4 fps.

Rewater to minimize sediment movement downstream of the site. Prior to rewatering, slowly wet the reconstructed waterway channel; wash the fines into the bed by using pumps, or by diverting a small portion of the waterway channel flow. Capture and pump the sediment and turbid water, from the downstream end of the channel to the upstream end of the channel, until fines are washed into the streambed and water runs clear. Attain the Engineers written approval before breaching the coffer/diversion dams. Slowly breach the coffer/diversion dams and rewater the waterway channel.

**204-4.01 METHOD OF MEASUREMENT.** Section 109. Use neat line method as follows:

Structure Excavation:

1. Masonry Structures (except conduit). Between vertical planes, 18 inches outside the base of the masonry sections for the depth required.
2. Conduit. Between parallel vertical planes located 18 inches outside the horizontal projection of the outside diameter of the conduit and to the depth shown on the Plans.

Structure excavation only measured below the limits of other classes of excavation. Structure's in embankment section, the natural ground line as cross-sectioned is the uppermost level of computation.

**204-5.01 BASIS OF PAYMENT.** The Contract price includes the placing and compacting

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of all backfill and bedding when the materials used are obtained from excavation, any clearing and grubbing required and not paid for under some other item, formation of any embankments made with surplus material from structure excavation, and disposal of all surplus or unsuitable excavation.

Culvert baffles, headwalls, temporary water diversion, dewatering and rewatering, and the removal of pavement are subsidiary to the conduit and minor structure Pay Items.

Additional excavation to provide for shoring, sheet piles, excavation shields or flattening the excavation slopes, is subsidiary.

When pay item Structure Excavation, does not appear in the bid schedule, structure excavation required to complete other items of work is subsidiary, except that excavation and disposal of unsuitable material required from below a plane 12 inches below the invert elevation of conduits and 12 inches below the bottom of structures is paid as extra work.

Any backfill or bedding material required whose source is other than project excavation is paid at the contract unit price for the materials being used, or as extra work if no unit price has been established.

Traffic control paid under Section 643 and Erosion, Sediment, and Pollution Control paid under Section 641.

**SECTION 205  
EXCAVATION AND FILL FOR MAJOR STRUCTURES**

**205-3.05 COMPACTION.**

1. Compaction with Moisture and Density Control. 2<sup>nd</sup> paragraph delete: "and ATM 214".

HSM20.5-20.1130-1

**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:

**TABLE 301-2.01-1  
EXTRACTED AGGREGATE GRADATION**

| <b>Sieve</b> | <b>Percent Passing by Weight</b> |
|--------------|----------------------------------|
| 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.

**C301.1-07.0124-1**

Add No. 5 after the 5<sup>th</sup> paragraph:

5. within 50 feet of detector loops.

**C301.3-15.0220**

**301-3.03 SHAPING AND COMPACTION.**

In the second paragraph delete "and ATM 214".

**HSM20.5-20.1130-2**

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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.

C301.1-07.0124-1

### **301-5.01 BASIS OF PAYMENT.**

Add the following:

Recycled asphalt material substituted for aggregate base course will be paid for as Item 301.0001.00D1 Aggregate Base Course, at the unit price shown in the bid schedule for that Item.

C301.1-07.0124-1

Replace Section 401 with the following:

## **SECTION 401 HOT MIX ASPHALT**

**401-1.01 DESCRIPTION.** Construct one or more courses of plant-mixed, hot mix asphalt (HMA) pavement on the areas as shown on the plans.

### **MATERIALS**

**401-2.01 COMPOSITION OF MIXTURE - JOB MIX DESIGN.** Use an Alaska DOT&PF Type II, Class B approved Job Mix Design. The Job Mix Design must have been accepted within the calendar year of construction.

**401-2.02 ASPHALT BINDER.** Conform to Subsection 702-2.01. If binder performance grade is not specified, use PG 52-28.

**401-2.03 TACK COAT.** Special Tack Emulsion, STE-1 conforming to Subsection 702-2.03.

**401-2.04 PROCESS QUALITY CONTROL.** Sample and test materials for quality control of the asphalt concrete mixture according to Subsection 106-1.03.

Submit a paving and plant control plan at the pre-paving meeting to be held a minimum of 5 working days before initial paving operations. Address the sequence of operations and joint construction. Outline steps to assure product consistency, to minimize segregation, and to prevent premature cooling of the asphalt concrete mixture. Include a proposed quality control testing frequency for gradation, asphalt cement content, and compaction.

### **CONSTRUCTION REQUIREMENTS**

**401-3.01 WEATHER LIMITATIONS.** Do not place the hot mix asphalt on a wet surface, on an unstable/yielding roadbed, when the base material is frozen, or when weather conditions prevent proper handling or finishing of the mix. Do not place hot mix asphalt unless the roadway surface temperature is 40 °F or warmer.

**401-3.02 EQUIPMENT, GENERAL.** Use equipment in good working order and free of hot mix asphalt buildup. Make equipment available for inspection and demonstration of operation a minimum of 24 hours before placement of hot mix asphalt.

**401-3.03 ASPHALT MIXING PLANT.** Meet AASHTO M 156. Use an asphalt plant designed to dry aggregates, maintain accurate temperature control, and accurately proportion asphalt cement and aggregates. Calibrate the asphalt plant and furnish copies of the calibration data to the Engineer at least 4 hours before hot mix asphalt production.

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Provide a scalping screen at the asphalt plant to prevent oversize material or debris from being incorporated into the hot mix asphalt.

**401-3.04 HAULING EQUIPMENT.** Haul hot mix asphalt in trucks with tight, clean, smooth metal beds, thinly coated with a minimum amount of paraffin oil, lime water solution, or an approved manufactured asphalt release agent. Do not use petroleum fuel as an asphalt release agent.

During hot mix asphalt hauling activities, the hauling vehicle will have covers attached and available for use. Be prepared to demonstrate deployment of the covers when hauling material or empty. Illustrate the efficiency of deployment and how the materials are protected from the environment and the environment is protected from the materials. Cover the hot mix asphalt in the hauling vehicle(s) when directed by the Engineer.

**401-3.05 ASPHALT PAVERS.** Use self-propelled pavers equipped with a heated vibratory screed. Control grade and cross slope with automatic grade and slope control devices. Use an erected string line, a 30-foot minimum mobile stringline (ski) or other approved grade follower, to automatically actuate the paver screed control system. Use grade control either (a) both the high and low sides or (b) grade control on the high side and slope control on the low side.

Equip the paver with a receiving hopper having sufficient capacity for a uniform spreading operation and a distribution system to place the hot mix asphalt uniformly in front of the screed.

Use a screed assembly that produces a finished surface of the required smoothness, thickness, and texture without tearing, shoving, or displacing the hot mix asphalt.

Equip the paver with a means of preventing segregation of the coarse aggregate particles from the remainder of the hot mix asphalt when carried from the paver hopper back to the augers. Use means and methods approved by the paver manufacturer. Means and methods may consist of chains, deflector plates, or other similar devices or combination of devices. Provide a Certificate of Compliance that verifies the means and methods required to prevent segregation are being used.

**401-3.06 ROLLERS.** Use both steel-wheel (static or vibratory) and pneumatic-tire rollers. Avoid crushing or fracturing aggregate. Use rollers designed to compact hot mix asphalt mixtures and reverse without backlash.

Use fully skirted pneumatic-tire rollers having a minimum operating weight of 3,000 pounds per tire.

**401-3.07 PREPARATION OF EXISTING SURFACE.** Prepare existing surface in conformance with the Plans and Specifications. Clean existing paved surfaces of loose material.

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Uniformly coat contact surfaces of curbing, gutters, sawcut pavement, cold joints, manholes, and other structures with tack coat material prior to placing the hot mix asphalt. Allow tack coat to break before placement of hot mix asphalt.

**401-3.08 PREPARATION OF ASPHALT.** Provide a continuous supply of asphalt cement to the asphalt mixing plant at a uniform temperature, within the allowable mixing temperature range.

**401-3.09 PREPARATION OF AGGREGATES.** Dry the aggregate so the moisture content of the hot mix asphalt does not exceed 0.5% (by total weight of mix), as determined by WAQTC FOP for AASHTO T 329.

Heat the aggregate for hot mix asphalt to a temperature compatible with the mix requirements specified.

Adjust the burner on the dryer to avoid damage to the aggregate and to prevent the presence of unburned fuel on the aggregate. Hot mix asphalt containing soot or fuel is considered unacceptable and is subject to the requirements of Subsection 105.-1.11.

**401-3.10 MIXING.** Combine the aggregate, asphalt cement, and additives in the mixer in the amounts required by the Job Mix Design. Mix to obtain 98% coated particles when tested according to AASHTO T 195.

For batch plants, put the dry aggregate in motion before addition of asphalt cement.

**401-3.11 PLACING AND SPREADING.** Place the hot mix asphalt upon the approved surface, spread, strike off, and adjust surface irregularities. Use asphalt pavers to distribute hot mix asphalt, including leveling courses. The maximum compacted lift thickness allowed is 3 inches.

Use hand tools to spread, rake, and lute the hot mix asphalt in areas where irregularities or unavoidable obstacles make the use of mechanical spreading and finishing equipment impractical.

Do not pave against new Portland cement concrete pads or curbing until it has cured for at least 72 hours.

**401-3.12 COMPACTION.** Thoroughly and uniformly compact the hot mix asphalt by rolling. In areas not accessible to large rollers, compact with mechanical tampers or trench rollers.

The target value for density is 96% of the maximum specific gravity (MSG), as determined by WAQTC FOP for AASHTO T 209.

Do not leave rollers or other equipment standing on hot mix asphalt that has not cooled sufficiently to prevent indentation.

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**401-3.13 JOINTS.** Minimize the number of joints. Ensure that all joints have the same texture and smoothness as other sections of the course.

Remove to full depth improperly formed joints resulting in surface irregularities. Replace with new material, and thoroughly compacted.

Precut all pavement removal to a neat line with a power saw or by other approved method.

Form transverse joints by cutting back on the previous run to expose the full depth of the layer. Saw cut the joint, use a removable bulkhead, or other method approved by the Engineer.

**401-3.14 PATCHING DEFECTIVE AREAS.** Remove any hot mix asphalt that becomes contaminated with foreign material, is segregated, flushing, bleeding, or is in any way determined to be defective. Do not skin patch. Remove defective materials for the full thickness of the course. Cut the pavement so that all edges are vertical, the sides are parallel to the direction of traffic. Coat edges with a tack coat and allow to cure. Place and compact fresh hot mix asphalt to grade and smoothness requirements.

**401-4.01 METHOD OF MEASUREMENT.** Section 109 and the following:

Hot Mix Asphalt.

By weighing. No deduction will be made for the weight of asphalt cement or anti- stripping additive.

Job Mix Design, asphalt cement, anti-strip additive, tack coat, and other incidentals to complete the work under this Section will not be measured separately for payment but shall be considered subsidiary to the respective hot mix asphalt pay item.

**401-5.01 BASIS OF PAYMENT.**

Item 401.0001.002B HMA, Type II; Class B will be paid for by the ton in place completed and accepted. Job Mix Design, asphalt cement, anti-strip additive, tack coat, and other incidentals are subsidiary to this pay item.

Payment will be made under:

| PAY ITEM      |                       |      |
|---------------|-----------------------|------|
| Item Number   | Item Description      | Unit |
| 401.0001.002B | HMA, Type II; Class B | Ton  |

(03/01/24)PARKS-Special Provision

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**SECTION 501  
CONCRETE FOR STRUCTURES**

**501-2.02 COMPOSITION OF MIXTURE – JOB MIX DESIGN.**

Replace Table 501-4 with the following:

**TABLE 501-4  
AIR CONTENT REQUIREMENTS**

| <b>Class of Concrete</b> | <b>Air Content</b>                                                                         |
|--------------------------|--------------------------------------------------------------------------------------------|
| A                        | 6.0% $\pm$ 0.5%                                                                            |
| A-A                      | 6.0% $\pm$ 0.5%                                                                            |
| P                        | 3.50% minimum <sup>1</sup> and<br>Super Air Meter (SAM) number<br>$\leq$ 0.20 <sup>1</sup> |
| DS                       | Not required                                                                               |

<sup>1</sup>Not required for web and bottom flange of precast, prestressed decked bulb-tee girders.

**HSM20.23-21.1231**

Replace Section 603 with the following:

## **SECTION 603 CULVERTS AND STORM DRAINS**

**603-1.01 DESCRIPTION.** Construct or reconstruct culvert and storm drain pipe. Install culvert marker posts, and strap plastic culvert ends.

**603-1.02 REFERENCES.**

|            |                                                                  |
|------------|------------------------------------------------------------------|
| ASTM D3953 | Standard Specification for Strapping, Flat Steel and Seals       |
| ASTM D4675 | Standard Guide for Selection and Use of Flat Strapping Materials |

**603-2.01 MATERIALS.** Use materials that conform to the following:

|                                                  |                     |
|--------------------------------------------------|---------------------|
| Bedding and Backfill                             | Subsection 204-2.01 |
| Flexible Watertight Gaskets                      | Subsection 705-2.05 |
| Corrugated Steel Pipe and Pipe Arches            | Subsection 707-2.01 |
| Galvanize                                        | Subsection 716-2.07 |
| Culvert Marker Posts (Flexible Delineator Posts) | Subsection 730-2.05 |

Steel Pipe: match the coupling band material and end section material to the pipe material.

Culvert marker post is 6-foot tall by 2.5 inches wide with reinforcing ribs, capable of a 9-inch minimum bending radius, and blue with no marking.

Culvert marker Strap and Seals according to ASTM D3953. .625 inch x .02 inch, dry Type 1 regular-duty (magnetic, ferritic), galvanized Finish B (hot-dipped Grade 2 moderate coating, .18 oz./ft<sup>2</sup> surface or .0002 inch thick minimum. Push type seals, Style III (overlap), regular duty, galvanized Finish B (hot-dipped coating) by 1.75-inch minimum length and matched to strapping width.

## **CONSTRUCTION REQUIREMENTS**

**603-3.01. GENERAL.** Excavate, bed, and backfill according to the requirements of Subsections 204-2.01 and 204-3.01, and the Plans.

Dewater ground water from work areas; construct and maintain temporary water diversion when working in waterways, and for facilities or structures with active drainage according to Section 204.

**603-3.02. LAYING PIPE.** Begin the pipe laying at the downstream end of the pipe. Keep the lower segment of the pipe in contact with the bedding throughout its full length. Place bell or groove ends of rigid pipe and outside circumferential laps of flexible pipe facing upstream.

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Lay paved or partially lined pipe so that the longitudinal centerline of the paved segment coincides with the flow line. Install elliptical conduit and circular conduit reinforced with other than a full circular cage or cages so the orientation of a vertical plane through the longitudinal axis of the conduit does not vary more than 5 degrees from the design orientation.

Repair damaged metallic coating on metal pipe according to AASHTO M36.

**603-3.03 JOINING PIPE.** Joints shall provide circumferential and longitudinal strength to preserve the pipe alignment, prevent separation of pipe sections, and provide a watertight joint between new sections of pipe and joints between new and existing sections of pipe of similar and dissimilar materials. Include a continuous gasket (seal) in all joints. Construct the watertight joint capable of passing a laboratory hydrostatic pressure and vacuum test of at least 4 psi for 10 minutes.

1. Metal Pipe. Join metal pipe firmly using one of the types of coupling bands shown on the Plans and as described below. Provide coupling bands that are no more than two nominal sheet thickness lighter than pipe being joined and in no case thinner than the minimum sheet thickness of the material. The minimum sheet thickness is 0.048 inches for aluminum and 0.052 inches for steel. Include a gasket each side of the gap.
  - a. Annular, Spiral, Semi-Corrugated, and Rod and Lug Bands. Provide standard bands as described by ASTM A760 and ASTM B745. Join the pipe so the gap between the pipes is in the center of the band and is no wider than one corrugation width.
  - b. Dimple and Bias Bands. Use these bands only where it is not possible to use other bands, such as on field-cut pipe ends or joining new pipe to existing pipe. Join the pipe so the gap between the pipes is in the center of the band and is not wider than 2 inches.

Furnish all bolted connections on coupling bands with cut washers placed between the nut and the angle bracket or use nuts with integral washers.

Take up any pipe that is out of alignment, unduly settled, or damaged and re-lay or replace it.

#### **603-3.04 CULVERT MARKER.**

1. Marker Post. Install a culvert marker on the approach side of storm drain outfalls 30 inches and smaller, field inlets not in paved parking lots, all end sections to cross culverts, or as directed. Drive to maintain forty-two inches of post above the ground after driving, and
2. Marker Strap. In addition to marker posts, install marker strap around the plastic pipe ends.

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Position the strap in the valley of the first annular ring from the top end of the culvert. From the vertical centerline of the culvert, at the top, overlap the strap and extend the ends to approximately 30 degrees each side of the centerline. Place the strap loosely without twists in the valley, without compressing the pipe, and tight enough to keep the strap from moving out of the valley without deforming the pipe or pipe corrugation. Seal the strap at three locations, one at each of the ends, and one at the top of the culvert. Extend the strap ends beyond the end seals approximately 1/2-inch. Double crimp the seal, two pairs of crimps minimum each seal.

Repair the strap galvanizing where abraded and at cut ends according to ASTM A780. Prepare the surface with power tools per SSPC-SP11, hand tools per SSPC-SP2, and as required by the paint manufacturer. Apply paint, Type – paint containing zinc dust, to the prepared surfaces and allow enough time for curing as required by the manufacturer's printed instructions.

**603-4.01 METHOD OF MEASUREMENT.** Section 109, and as follows:

1. Culvert Pipe. The length of pipe, measured in place, along the invert.

**603-5.01 BASIS OF PAYMENT.** Branch connections and elbows are subsidiary to the pipe unless included as a separate Pay Item.

Coupling bands, seals (gaskets), and other items necessary for the proper joining of the sections are subsidiary.

Culvert markers are subsidiary to the pipe.

Excavation, bedding, and backfill paid under Section 204.

| PAY ITEM      |                             |      |
|---------------|-----------------------------|------|
| Item Number   | Item Description            | Unit |
| 603.0001.0024 | CSP 24 Inch                 | LF   |
| 603.0003.0024 | End Section for CSP 24 Inch | Each |

C603-25.0201

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Replace Section 615 with the following:

## **SECTION 615 STANDARD SIGNS**

**615-1.01 DESCRIPTION.** Furnish and install standard signs and delineators. Remove and relocate or remove and dispose of existing signs and markers, as specified.

**615-2.01 MATERIALS.** Use materials that conform to the following Subsections:

|                                      |          |
|--------------------------------------|----------|
| Sheet Aluminum                       | 730-2.01 |
| High Density Overlaid Plywood        | 730-2.02 |
| Retroreflective Sheeting, ASTM D4956 | 730-2.03 |
| Sign Posts                           | 730-2.04 |
| Delineator Posts                     | 730-2.05 |
| Acrylic Prismatic Reflectors         | 730-2.06 |
| Sign Support Fasteners               | 730-2.07 |

1. Shop Drawings. Submit shop drawings, for all signs that must meet the ASDS letter width and spacing charts for variable width legends (such as D-series and I-3 signs), and which require custom shop drawings specific to the project. Submit 4 sets of collated shop drawings prepared according to Subsection 105-1.02. Show the following on each sign drawing:
  - a. Dimensions of all horizontal and vertical characters and spaces
  - b. Overall dimensions
  - c. Sign material and sheeting material type
  - d. Panel thickness
  - e. Legend and letter series
  - f. Whether the sign will be framed
2. Sign Fabrication. Use ASTM D4956 Type IV retroreflective sheeting (for lettering, symbols, borders, and background) on sheet aluminum panels for all signs except the following:
  - a. Orange Background Signs. Use Type IX or XI fluorescent orange reflective sheeting placed on sheet aluminum panels, except:
    - (1) For temporary installations, the reflective sheeting place on aluminum, plastic, or plywood sheet panels.
    - (2) For flexible signs, (Roll-Up Signs) use fluorescent reflective sheeting Type VI or better (based on durability and reflectivity, as determined by the Engineer). Roll-Up Sign – 3M Series RS 24, Reflexite Marathon Orange, or approved equal.

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- b. Railroad Crossbucks and Vertical Crossbuck Supports: Use white ASTM D4956 Type VIII or Type IX or XI retroreflective sheeting for background of sign and all strips.
- c. Non-Illuminated Overhead Signs with White Legends on Green Backgrounds: Use ASTM D4956 Type IX or XI retroreflective sheeting for legends and background. Create the legend in one of the following ways:
  - (1) Cut border and legend from white ASTM D4956 Type IX or XI retroreflective sheeting and adhere them to a green ASTM D4956 Type IX background, or
  - (2) Cut stencil of border and legend out of green transparent acrylic film and use transparent adhesive to overlay the film on a white ASTM D4956 Type IX or XI retroreflective background.
- d. Fluorescent Yellow-Green School Area Signs: Use ASTM D4956 Type VIII, Type IX or XI retroreflective sheeting for background.

Use a manufacturer-recommended clear coat on all screened signs.

Use sign layouts (including characters, symbols, corner radii, and borders) that conform to the ASDS.

- 3. Sign Posts and Bases. Use sign posts and bases of the types specified. The structural aspects of design and materials for sign supports must comply with the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals. Do not splice sign posts.

Foundation Concrete:

- a. Non-structural and Non-steel-reinforced Sign Foundations. Use Class W concrete, or commercially available pre-mixed sacked concrete with a minimum compressive strength of 3,000 psi. When sacked concrete is used, acceptance will be based on manufacturer Certificates of Compliance and the compressive strength test results of the specimens prepared according to ATM 506.
- b. Steel-reinforced Roadside Sign Foundations. Use Class B concrete meeting the requirements of Section 550, except:

Overhead Sign Support Foundations. Use Class A concrete meeting the requirements of Section 501.

- 4. Delineators. Use delineator assemblies that conform to the requirements shown on the Plans. Fabricate flexible delineators using ASTM 4956 Type III, IV, V, IX or XI retroreflective sheeting.

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5. Reflective Sheeting Warranty. Supply manufacturer's warranty for reflective sheeting, including retention of fluorescent yellow-green (measured in accordance with ASTM E2301) for ten years according to the following criteria:
  - a. Minimum Fluorescent Luminance Factor  $Y_F$ : 20%
  - b. Minimum Total Luminance Factor  $Y_T$ : 35%

The warranty shall stipulate that: If the sheeting fails to meet the minimum fluorescence values within the first 7 years from the date of fabrication of the sign, the manufacturer shall, at the manufacturer's expense, restore the sign surface to its original effectiveness. If the reflective sheeting fails to meet the minimum fluorescence values within the 8th through 10th year from the date of fabrication, the manufacturer shall, at the manufacturer's expense, provide enough new replacement sign sheeting to the Department to restore the sign surface to its original effectiveness.

## **CONSTRUCTION REQUIREMENTS.**

### **615-3.01 GENERAL.**

1. Place posts in excavated holes to the depth shown on the Alaska Standard Plans.
2. Backfill the space around the posts and foundations placed in holes to finish ground with selected earth or sand, free of rocks or deleterious material. Place backfill in layers approximately 6 to 12 inches thick and thoroughly compact it.
3. Dispose of surplus excavated material neatly along the adjacent roadway as directed.
4. Install flexible delineator posts according to the manufacturer's recommendations.
5. Attach sign panels to posts, electroliers, traffic signal standards, bridge rails, piers, and abutments using the types and sizes of fastening hardware shown on the Plans.
6. If using existing signs and mileposts that are removed and relocated, ensure they conform to the details shown on the Plans or as directed.
7. Sign Salvage:

Notify the Engineer 5 working days prior to beginning sign salvage activities. The Engineer will physically identify those signs to salvage.

Sign(s) identified for salvage in the Plans Sign Summary table, the sign is the property of the Agency identified, and if not identified is the property of the Contractor.

Salvage sign includes the sign panels, posts, foundation sleeves, and hardware.

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## Agency Salvaged Signs.

Protect all items from damage during salvaging and delivery. For each sign so designated, disconnect sign post from panel and group the panels together. Group posts together with the foundation sleeves and their hardware. Do not deliver salvaged materials until approved by the Engineer. Replace any items damaged by you at no additional cost to the Department.

Dispose of foundations from salvaged existing signs in a manner approved of by the Engineer (remove and dispose, abandoned in place, or otherwise). If abandoned in place, remove the tops of the foundations, reinforcing steel, anchor bolts, and conduits to a depth of not less than 12 inches below roadway subgrade or unimproved ground, whichever applies.

Dispose of sign salvage not wanted by the Contractor, not used in the project, and not accepted by the Local Maintenance and Operations Station, off sight and as required by Federal, State, and Municipal environmental regulations.

All signs, the sign panels, posts, hardware, foundation sleeves, and foundations at a single installation are considered as one unit.

8. All materials and finished signs are subject to inspection and acceptance in place.
  - a. Surfaces exposed to weathering must be free of defects in the coating that impair serviceability or detract from general appearance or color match.
  - b. Finished signs must be clean and have no chatter marks, burrs, sharp edges, loose rivets, delaminated reflective sheeting, or aluminum marks. Do not make repairs to the face sheet.
9. Install the various breakaway assemblies according to the manufacturer's written instructions. Meet MASH crashworthiness requirement for breakaway hardware, unless approved otherwise by the Engineer.
10. Secure the anchors in templates and install them according to the manufacturer's written instructions.
11. Finish the foundation according to these tolerances:
  - a. Do not use more than two shims per coupling.
  - b. Do not use more than three shims to plumb each post.

Remove and replace all foundations requiring more than three shims to plumb a post without extra compensation.

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12. Construct the top of any foundation located on a slope so that the finished slope passes through the top center of the foundation. Grade the area 24 inches up and down slope of the foundation edge so that no portion of the foundation projects above the surrounding slope and water will drain away from the foundation.
13. Attach a label to the back of all standard signs in the lower right corner. Make the label at least 15 square inches and show the year the sign was purchased from the manufacturer. Show the last two digits of the year in clear and bold numbers. Make the label from ASTM D4956 Type I or brighter retroreflective sheeting. Use background and legend colors meeting Table 615-1.

**TABLE 615-1  
DECAL COLORS**

| YEAR                                                                                                                                                                                                | BACKGROUND COLOR    | LEGEND COLOR |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------|
| XXX1                                                                                                                                                                                                | Yellow              | Black        |
| XXX2                                                                                                                                                                                                | Red                 | White        |
| XXX3                                                                                                                                                                                                | Blue                | White        |
| XXX4                                                                                                                                                                                                | Green               | White        |
| XXX5                                                                                                                                                                                                | Brown               | White        |
| XXX6                                                                                                                                                                                                | Orange              | Black        |
| XXX7                                                                                                                                                                                                | Black               | White        |
| XXX8                                                                                                                                                                                                | White               | Black        |
| XXX9                                                                                                                                                                                                | Purple              | White        |
| XXX0                                                                                                                                                                                                | Strong Yellow-Green | Black        |
| Central values and tolerance limits for each color, as referenced in the MUTCD, are available from the Federal Highway Administration, (HHS-30), 400 7 <sup>th</sup> St. SW, Washington, D.C. 20590 |                     |              |

**615-3.02 SIGN PLACEMENT AND INSTALLATION.** The location and type of installation will be as shown on the Plans. Sign locations are approximate and subject to field adjustment by the Engineer.

Do not allow the top of the embedded steel tube to extend more than 2 inches above the surrounding ground and concrete foundation.

On all signs, install 2-inch diameter wind washers, colored to match the sign face, between the fastener head and the sign. Use rust-resistant washers fabricated from a material equal in strength to the sign blank.

Mount signs on mast arms level.

Bring existing signs that are to remain, into conformance with Standard Drawing S-05. Keep existing signs in service until they are no longer needed.

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#### **615-4.01 METHOD OF MEASUREMENT.**

Standard Signs and Object Markers. By the total area of legend-bearing sign panel erected in place. No deductions in quantity for corner rounding will be made. Nominal dimensions for sign sizes indicated on the Plans will be used to calculate sign pay quantities. Octagons and round signs will be measured as rectangles. Only one side of each double-faced sign will be measured for payment.

Removal and Relocation. By each, complete in place.

Delineators. By each, complete in place. A single delineator consists of one post equipped with three reflectors.

Salvage Sign. By each complete sign delivered in acceptable condition.

**615-5.01 BASIS OF PAYMENT.** Sign posts, bases, and mounting hardware are subsidiary.

Salvage Sign. Each complete sign includes the sign panels, posts, hardware, and foundations sleeves at a single installation.

| <b>PAY ITEM</b>    |                         |             |
|--------------------|-------------------------|-------------|
| <b>Item Number</b> | <b>Item Description</b> | <b>Unit</b> |
| 615.0001.0000      | Standard Sign           | SF          |

C615-24.1001

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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**

| <b>Materials</b>                      | <b>Ingredients</b>              | <b>Application Rate<br/>(per MSF<sup>c</sup>)</b> |
|---------------------------------------|---------------------------------|---------------------------------------------------|
| <b>Grass Seed Mix</b> <sup>a, b</sup> | Nortran – Tufted Hairgrass      | 0.40 lbs.                                         |
|                                       | Arctared – Red Fescue           | 0.40 lbs.                                         |
|                                       | Wainwright - Slender Wheatgrass | 0.40 lbs.                                         |
|                                       | Gruening-Alpine Bluegrass       | 0.30 lbs.                                         |
|                                       |                                 | <hr/> Total: 1.50 lbs.                            |
| <b>Soil Stabilizer</b>                |                                 |                                                   |
| <b>Slope ≤ 3:1</b>                    | Mulch                           | 46 lbs.                                           |
| <b>Slope &gt;3:1</b>                  | Mulch with tackifier            | 45-58 lbs.                                        |
| <b>Fertilizer</b>                     | 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 ft<sup>2</sup>.

## **CONSTRUCTION REQUIREMENTS**

**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.

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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.

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.

Seed between May 15 and 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 ADNRR and the Revegetation Manual for Alaska.

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.

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**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.

**618-4.01 METHOD OF MEASUREMENT.** Section 109 and as follows:

Seeding by the Acre. By the area of ground surface acceptably seeded and maintained.

Seeding by the Pound. By the weight of dry seed acceptably seeded and maintained.

Water for Seeding. If weighed, a conversion factor of 8.34 pounds per gallon will be used to convert weights to gallons.

MGAL equals 1000 gallons.

**618-5.01 BASIS OF PAYMENT.**

1. Pay Items 618.0002.0000 Seeding. Payment is for healthy established vegetative groundcover through the establishment period.
  - a. The initial surface preparation, seed, fertilizer, mulch when applied hydraulically, their application, and the water for hydraulic application are subsidiary.
  - b. Maintenance fill, stabilization material, topsoil, surface preparation, seed, fertilizer, mulch when applied hydraulically, and the water required for hydraulic application are subsidiary.

Except for maintenance, stabilization material is paid under Section 619 and topsoil under Section 620.

**PAY ITEM**

| Item Number   | Item Description | Unit |
|---------------|------------------|------|
| 618.0002.0000 | Seeding          | LB   |

CR618-23.0601

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Replace Section 619 with the following:

## **SECTION 619 SOIL STABILIZATION**

**619-1.01 DESCRIPTION.** Furnish, install, and maintain materials to stabilize the soil. Control erosion, sediment, and pollution.

### **619-1.02 RELATED SECTIONS, REFERENCE ORGANIZATIONS, AND STANDARD DOCUMENTS.**

1. Alaska Department of Transportation and Public Facilities (Alaska DOT&PF):

Standard Specifications for Highway Construction

|                                                |             |
|------------------------------------------------|-------------|
| Seeding .....                                  | Section 618 |
| Topsoil.....                                   | Section 620 |
| Planting Trees and Shrubs .....                | Section 621 |
| Silt Fence .....                               | Section 633 |
| Erosion, Sediment, and Pollution Control ..... | Section 641 |
| Soil Stabilization Material .....              | Section 727 |

2. American Association of State Highway and Transportation Officials (AASHTO)

Standard Practice for:

- a. Compost for Erosion/Sediment Control (Filter Berms and Filter Socks).....R 51
- b. Compost for Erosion/Sediment Control (Compost Blankets).....R 52

3. United States Composting Council (USCC)
  - a. Testing Methods for the Examination of Compost and Composting (TMECC)
  - b. Seal of Testing Assurance Program (STA) documents

4. Erosion Control Technology Council (ECTC)
  - a. Hydraulic Erosion Control Products (HECPs) Specification Chart  
Table 1, Performance Chart for Standard HECPs
  - b. Rolled Erosion Control Products (RECPs) Specification Chart  
Table 1, Rolled Erosion Control - Temporary  
Table 2, Rolled Erosion Control - Permanent

5. National Transportation Product Evaluation Program (NTPEP)
  - a. Testing and Evaluation of Products Materials and/or Devices

6. Texas DOT/Texas Transportation Institute (TTI) Hydraulics and Erosion Control Laboratory

**619-1.03 SUBMITTALS.** Submit stabilization and erosion, sediment and pollution control performance testing results with certifications for each material, Section 619-2.01

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Materials. Submit a sample of each material to the Engineer 7 days before the scheduled installation.

1. Test compost, all applications, no more than 90 days before installation.
2. At a minimum, certificate will include the name of the manufacturer, product name, style number, or similar, chemical composition of the material, the fibers, netting, yarn and similar and the weed free status of the material.
3. Organic materials shall be accompanied with all applicable health certificates and permits.
4. Furnish a Material Safety Data Sheet (MSDS) that demonstrates the product is not harmful to plants, animals, and aquatic life.

**619-2.01 MATERIALS.** Select stabilization materials, individually or a combination of, matched to the project applications/conditions (sheet flow, concentrated flow, slope, length of slope, access, etc.) providing performance and functional longevity meeting the most restrictive requirements of the Construction General Permit (CGP), the approved Storm Water Pollution Prevention Plan (SWPPP) and Section 641 Erosion, Sediment and Pollution Control.

1. Mulch ..... Subsection 727-2.01
  - a. Dry Erosion Control, Stabilization Products
  - b. Hydraulic Erosion Control Products (HECPs)
2. Matting ..... Subsection 727-2.02
  - a. Rolled Erosion Control Products (RECPs)
3. Sediment Retention Fiber Rolls (SRFRs) ..... Subsection 727-2.03
  - a. Filter Socks
  - b. Compost Socks
  - c. Coir Logs
4. Compost ..... Subsection 727-2.04
5. Tackifier ..... Subsection 727-2.05
6. Soil Binders (Polyacrylamide (PAM)) ..... Subsection 727-2.06
7. Geotextile-Encased Check Dams and Sediment Barriers. Subsection 727-2.07
8. Sandbag ..... Subsection 727-2.08
9. Manufactured Inlet Protection System ..... Subsection 727-2.09
10. Clear Plastic Covering ..... Subsection 727-2.10
11. Staples ..... Subsection 727-2.11
12. Other stabilization materials submitted to and approved by the Engineer.

Include on the packaging the manufacturer's name, the content, the air dry-weight and the guaranteed chemical analysis of the contents. Ship and deliver to the site in the original, unopened containers.

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**619-3.01 GENERAL.** Stabilization may include individual or a combination of materials, including but not limited to temporary seeding, mulch, tackifier, staples, matting, stabilizing emulsions, soil binders, dustless sweeping, dust palliatives, and others.

1. Material Storage and Protection. Store materials elevated off the ground and covered protecting them from construction and or damage from the environment including but not limited to:
  - a. Precipitation
  - b. Extended ultraviolet radiant including sunlight
  - c. Chemicals that are strong acids or other
  - d. Flames and welding sparks
  - e. Excess temperatures
  - f. Other environmental conditions that may damage the materials
2. Fabrication.
  - a. Sandbags. Sand bags shall measure 15 inches by 30 inches. Place approximately 1.0 cubic foot of select Material, Type B, in each sandbag sack. Close the open end of the sandbag as recommended by the fabric manufacturer.

**619-3.02 SURFACE PREPARATION.** Clear all areas to be stabilized of stones 4 inches in diameter and larger and of weeds, plant growth, sticks, stumps, and other debris or irregularities that might interfere with the stabilization operation, growth of cover (where vegetative cover is part of the stabilization operation) or subsequent maintenance of the vegetative-covered area(s).

Smooth the surface of the area(s) to be stabilized; make the areas reasonably free of ruts, holes, and humps; trackwalk if required by the manufacturer; apply the stabilization material to each area.

If specified, apply topsoil to the area to be stabilized before application of the stabilizing material. Section 618 and 620.

**619-3.03 APPLICATION.** Apply stabilization material, including rate of application, according to the specifications. If not specified, apply according to the manufacturer's requirements. Where manufacturer requirements conflict with the specification, except where the Engineer directs otherwise, apply the material according to the requirements of the manufacturer.

If seeding is specified, except where seed is included in the stabilization material, complete the application of stabilization materials within 24 hours after seed is placed.

Do not use vehicles or equipment which cause rutting or displacement of the subgrade or topsoil.

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1. Temporary Seeding. Annual Ryegrass per Subsection 724-2.02, Table 724-1. Apply at a rate of 1/2 lb/1000 sq. ft., minimum, on level ground to a maximum of 1 1/2 lb/1000 sq. ft., maximum, on sloping ground and highly erodible soils. Prepare surface and place seed as noted under Subsection 619-3.02 Surface Preparation and Section 618 Seeding. Confirm application of temporary seeding with the Engineer.
2. Tacking Agents - Tackifiers. Apply tacking agents according to the manufacturer's installation instructions matched to the application providing functional longevity, erosion control effectiveness, and vegetative establishment.
3. Soil Binders. Apply soil binders according to the manufacturer's installation instructions.
  - a. Using Polyacrylamide (PAM) and PAM with Short-Term Mulch:  
Apply PAM on bare soils.  
  
Apply PAM and PAM with short-term mulch only where sediment control is in place and complete.  
  
Do not apply PAM and PAM with short-term mulch on saturated ground during rainfall.
  - b. Using Moderate-Term Mulch:  
Apply moderate-term mulch according to manufacturer's installation instructions. If the curing period to achieve maximum performance is greater than the time period before precipitation is predicted, or the soil is saturated, do not apply the moderate-term mulch except as approved by the Engineer.
  - c. Using Long-Term Mulch:  
Apply long-term mulch according to the manufacturer's installation instructions.
4. Erosion Control Blankets (ECBs). Select blankets, as specified by the manufacturer, to match the slope; and installed according to the manufacturer's instructions rolled out on well prepared soils to assure intimate contact and anchored with staples, stakes and or anchor trenches. Temporary erosion control blankets with 60 percent or greater open area may be installed prior to seeding. Place blankets with less than 60 percent open area immediately after the seeding operation.  
  
Staple matting/ECBs as recommended by the manufacturer for the application.
5. Compost Blankets. Construct compost blankets according to latest AASHTO R 52 and as specified. Use coarse compost and place over bare soil a blanket of 2 inch minimum thickness, except as otherwise specified. Apply material either by hand spreading and or pneumatically. Compost will have no free water visible or produce dust when handled. Place compost before seeding or mix seed with compost.

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6. Check Dams. Place check dams as soon as possible and practicable or when and where if directed by the Engineer. Place the check dams perpendicular to channels and construct of a height sufficient to maximize detention while keeping the water in the channel. Place and install check dams according to the Plans and anchor to maintain in effective position.
  - a. Sandbag. Place the initial row in tight contact with the ditchline for the length of the dam. Place each following row centered across the joint between the bags of the lift/row below.
7. Stabilized Construction Entrance.

Temporary stabilized construction entrance shall be constructed according to the Plans, prior to beginning any clearing, grubbing, earthwork, or excavation.

When the stabilized entrance no longer prevents track out of sediment or debris, the Contractor shall either rehabilitate the existing entrance to original condition, or construct a new entrance.

When the Plans require a tire wash in conjunction with the stabilized entrance, the Contractor shall include details for the tire wash and the method for containing and treating the sediment-laden runoff as part of the SWPPP. All vehicles leaving the site shall stop and wash sediment from their tires.
8. Sediment Control Barriers. Sediment control barriers shall be installed according to the Plans or manufacturer's recommendations in the areas of clearing, grubbing, earthwork, or drainage prior to starting those activities.
  - a. Sandbag. Place the initial row in tight contact with the surface perpendicular to the slope. Place each following row centered across the joint between the bags of the lift/row below.
  - b. Sediment Retention Fiber Rolls.
  - c. Silt Fence.
  - d. Compost Berm. Construct compost berms according to latest AASHTO R 51. Use coarse compost.
9. Turf Reinforcement Mats. According to manufacturer's installation instructions.

**619-3.04 MAINTENANCE.** Maintain stabilized areas in a satisfactory condition for the term of the Contract. Inspect as required by the CGP, approved SWPPP, and Section 641 Erosion, Sediment and Pollution Control and correct any deficiencies immediately. Remove and dispose of temporary measures, including trapped sediment and contaminants, off project at approved locations. Materials manufactured as degradable may be left in place when approved by the Engineer.

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Maintenance includes but is not limited to:

1. Protecting stabilized areas against traffic by approved warning signs or barricades.
2. Repairing surfaces gullied or otherwise damaged following application of stabilization material(s).

Where seeding is included as a part of the soil stabilization:

1. Reseeding, as required by Section 618 Seeding. Reapply the stabilization materials correcting the problems of the initial application.
2. Watering, where vegetative growth is part of the soil stabilization, according to Section 618 Seeding.

The Engineer will perform inspection of the stabilization as required in the CGP, Section 641, and the SWPPP. Make repairs as required by same and as directed.

**619-4.01 METHOD OF MEASUREMENT.** Section 109, measured on the slope of the ground surface.

**619-5.01 BASIS OF PAYMENT.** Water, maintenance, repair, removal, and disposal of temporary stabilization materials are subsidiary.

Seeding is paid under Section 618 Pay Items, topsoil under Section 620 Pay Items, silt fence under Section 633 Pay Items and temporary erosion, sediment, and pollution control under 641 Pay Items.

C619-18.0501-2

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.

**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 Plans.

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

**622-2.06 ROOFING.** Roofing shall conform to the Plans.

**622-2.07 FASTENERS.** Conform to the Plans.

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.

**622-2.08 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 7638. Provide two keys with each padlock.

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**622-2.09 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.

**622-2.10 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.

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**622-2.11 DOUBLE ENTRANCE GATE.** Conform to Standard Drawing G-2, Double Entrance Gate. High intensity reflective sheeting for gates shall match 3M Scotchlite Reflective Sheeting #3820 and have alternating red and white 4 inch wide stripes sloping downward at an angle of 45 degrees. Provide two standard Park padlock for each gate.

**622-2.12 SHOOTING RANGE BENCH.** Bench shall have precast concrete top and seat. Legs, mounting plates, seat arm, and seat post of the bench shall be steel. Height of the bench shall be approximately 3 feet. Precast concrete top shall be approximately 42" x 42" x 4". Precast concrete seat shall be height adjustable and able to pivot to both sides of bench for left- and right-handed configuration.

Listed below is a possible source of shooting range benches:

Vaughn Concrete Products, Inc.  
12650 Tucson Street  
Henderson, CO 80640  
303-659-3747  
Model: Precast Concrete Shooting Bench.

**622-2.13 SHOOTING RANGE PAVILION.** Materials to conform to Plans and applicable sections.

### **CONSTRUCTION REQUIREMENTS**

**622-3.01 GENERAL.** The locations shown on the drawings for park facilities placement are approximate. The Engineer will field locate park facilities at the time of construction.

**622-3.02 EXCAVATION AND BACKFILL.** Conform to the requirements of Section 204 and the details on the plans.

**622-3.03 CONCRETE.** Conform to the requirements of Section 501 and the details on the plans.

**622-3.04 STRUCTURAL STEEL.** Welding to conform to American Welding Society D1.1.

**622-3.05 ROOFING.** Construct in accordance with the Plans.

Store roofing components above the ground and keep dry. Materials shall be clean and unmarked during and after erection.

Lap felt 4 inches minimum at sides and top and 10 inches at ridge.

**622-3.06 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

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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. Metal. Prime and paint exposed metal surfaces as required. Finish is not required for fasteners that are galvanized or corrosion resistant.
2. Double Entrance Gate.
  - a. Metal. Primer and Heavy Duty Aluminum Enamel Paint
3. Shooting Range Bench.
  - a. Concrete. Per manufacturer.
  - b. Metal. Per manufacturer.
4. Shooting Range Pavilion.
  - a. Metal. Per Plans.
  - b. Roofing Assembly. Per Plans.

**622-3.07 DOUBLE ENTRANCE GATE.** Construct in accordance with Standard Drawing G-2, Double Entrance Gate.

**622-3.08 SHOOTING RANGE BENCH.** Install in accordance with the Plans and manufacturer's recommendations.

**622-3.09 SHOOTING RANGE PAVILION.** Construct in accordance with the Plans.

**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.

**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.

Concrete slabs, including reinforcing bars, are subsidiary.

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

Payment will be made under:

**PAY ITEM**

| <b>Item Number</b> | <b>Item Description</b> | <b>Unit</b> |
|--------------------|-------------------------|-------------|
| 622.2018.00DE      | Double Entrance Gate    | Each        |
| 622.2019.0000      | Shooting Range Bench    | Each        |
| 622.2020.0000      | Shooting Range Pavilion | Each        |

(04/14/26)PARKS-Special Provision

Replace Section 641 with the following:

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

**641-1.01 DESCRIPTION.** Provide project administration and Work relating to control of erosion, sedimentation, and discharge of pollutants, according to this Section and applicable local, state, and federal requirements, including the Alaska Pollution Discharge Elimination System (APDES) Construction General Permit (CGP). The state APDES program is administered by the Department of Environmental Conservation (DEC). Section 301(a) of the Clean Water Act (CWA) and 18 AAC 83.015 provide that the discharge of pollutants to water of the U.S. is unlawful except as allowed by the CGP.

**641-1.02 DEFINITIONS.**

These definitions apply only to Section 641.

**ACTIVE TREATMENT SYSTEM (ATS) OPERATOR.** CGP Appendix C.

**ALASKA CERTIFIED EROSION AND SEDIMENT CONTROL LEAD (AK-CESCL).** A person who has completed training, testing, and other requirements of, and is currently certified as, an AK-CESCL from an AK-CESCL Training Program (a program developed under a Memorandum of Understanding between the Department and others). The Department recognizes AK-CESCLs as “qualified personnel” required by the CGP. An AK-CESCL must be recertified every three years. (See Qualified Person)

**ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION (DEC).** The state agency authorized by EPA to administer the Clean Water Act’s National Pollutant Discharge Elimination System.

**ALASKA GENERAL PERMIT FOR EXCAVATION, DEWATERING (Excavation Dewatering Permit).** Permit authorizing excavation dewatering discharges from Construction Activities.

**ALASKA MULTI-SECTOR GENERAL PERMIT (MSGP).** Permit authorizing storm water discharges associated with Industrial Activity.

**ALASKA POLLUTANT DISCHARGE ELIMINATION SYSTEM (APDES).** A system administered by DEC that issues and tracks permits for storm water discharges.

**BEST MANAGEMENT PRACTICES (BMPS).** CGP Appendix C.

**CLEAN WATER ACT (CWA).** Federal Water Pollution Control Amendments of 1972, as amended (33 U.S.C. 1251 et seq.).

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**CONSTRUCTION ACTIVITY.** Ground disturbing activity by the Contractor, Subcontractor or utility company; that may result in erosion, sedimentation, or a discharge of pollutants into storm water. CGP Appendix C.

**CONSTRUCTION GENERAL PERMIT (CGP).** The permit authorizing storm water discharges from Construction Activities, issued and enforced by Alaska DEC. It authorizes storm water discharges providing permit conditions and water quality standards are met.

**U.S. ARMY CORPS OF ENGINEERS PERMIT (COE Permit).** U.S. Army Corps of Engineers Permit for construction in waters of the U.S. may be issued under Section 10 of the Rivers and Harbors Act of 1899, or Section 404 of the Clean Water Act.

**ELECTRONIC NOTICE OF INTENT (ENOI).** CGP Appendix C.

**ELECTRONIC NOTICE OF TERMINATION (ENOT).** CGP Appendix C.

**ENVIRONMENTAL PROTECTION AGENCY (EPA).** The federal agency charged to protect human health and the environment.

**ERODIBLE STOCKPILE.** Any material storage area or stockpile consisting of mineral aggregate, organic material, or a combination thereof, with greater than 5 percent passing the #200 sieve, and any material storage where wind or water transports sediments or other pollutants from the stockpile. Erodible Stockpile also includes any material storage area or stockpile where the Engineer determines there is potential for wind or water transport of sediments or other pollutants away from the stockpile.

**EROSION AND SEDIMENT CONTROL PLAN (ESCP).** The Department's project specific document that illustrates measures to control erosion and sediment on the project. The ESCP provides bidders with the basis for cost estimating and guidance for developing an acceptable Storm Water Pollutant Prevention Plan (SWPPP).

**FINAL STABILIZATION.** CGP Appendix C, "Stabilization".

**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 SWPPP.

**MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) PERMIT.** A DEC storm water discharge permit issued to certain local governments and other public bodies, for operation of storm water conveyances and drainage systems. CGP Appendix C.

**OPERATOR(S).** The party(s) responsible to obtain CGP permit coverage. CGP Appendix C.

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1. Contractor – the Contractor is an Operator inside and outside the Project Zone.
2. Department – the Department is an Operator inside the Project Zone.

**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, sediment, sewage, garbage, sewage sludge, chemical wastes, biological materials, wrecked or discarded equipment, rock, sand, cellar dirt and industrial or municipal waste.

**PROJECT ZONE.** The physical area provided by the Department for Construction. The Project Zone includes the area of highway or facility under construction, project staging and equipment areas, and material and disposal sites; when those areas, routes and sites, are provided by the Contract.

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 Zone.

**QUALIFIED PERSON.** CGP Appendix C and Section 641-1.04.

**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.

**STORM EVENT.** CGP Appendix C.

**STORM WATER POLLUTION PREVENTION PLAN (SWPPP).** The Contractor's plan for compliance with the CGP for construction activities inside the Project zone, CGP Appendix C and Section 641.

**STORM WATER POLLUTION PREVENTION PLAN TWO (SWPPP2).** The Contractor's plan for compliance with the CGP and MSGP for construction activities outside the Project Zone.

**SUPERINTENDENT.** The Contractor's duly authorized representative with authority and responsibility for the overall operation of the Project and Contractor furnished sites and facilities.

**SWPPP AMENDMENT.** A modification to the SWPPP. CGP Part 5.0.

**SWPPP MANAGER.** The Contractor's Qualified Person with authority and responsibility. CGP Appendix C.

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**SWPPP PREPARER.** The Contractor's Qualified Person with authority and responsibility. CGP Appendix C.

**TEMPORARY STABILIZATION.** CGP Appendix C, "Stabilization".

#### **641-1.02.01 REFERENCE.**

A list of websites and documents referenced herein, including SWPPP preparation documents and construction forms, are available at the DOT&PF Statewide Design and Engineering Services Storm Water web page and Construction Forms webpage. DEC Permit information is available at the DEC Division of Water webpage.

#### **641-1.03 PLAN AND PERMIT SUBMITTALS.**

For plans listed in Subsection 108-1.03.5 (SWPPP, HMCP, and SPCC), use the Contractor submission and Department review deadlines identified in this subsection. Partial and incomplete submittals will not be accepted for review. Any submittal that is re-submitted or revised after submission, but before the review is completed, will restart the submittal review timeline. No additional Contract time or additional compensation will be allowed due to delays caused by partial or incomplete submittals, or required re-submittals.

1. Storm Water Pollution Prevention Plan. Submit one electronic copy (single PDF file) and one hard copy of the SWPPP to the Engineer for approval. Deliver these documents to the Engineer at least 21 days before beginning Construction Activity. Organize the SWPPP and related documents for submittal according to the requirements of Subsection 641-2.01.2.

The Department will review the SWPPP submittals within 14 days after they are received. Submittals will be returned to the Contractor, and marked as either "rejected" with reasons listed or as "approved" by the Department. When the submittal is rejected, the Contractor must revise and resubmit the SWPPP. The 14-day review period will restart when the contractor submits an electronic copy and one hard copy of the revised SWPPP to the Engineer for approval.

After the SWPPP is approved and certified by the Department using Form 25D-109, the Contractor must certify the approved SWPPP using Form 25D-111. See Subsection 641-1.03.4 for further SWPPP submittal requirements.

Submit the final SWPPP. Transmit an electronic copy (single pdf file) of the final SWPPP to the Engineer when the Contractor's eNOT is filed, or within 30 days of the Department's eNOT being filed, whichever is sooner. Include all SWPPP documents.

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2. Hazardous Material Control Plan. The HMCP Template is available at the DOT&PF Construction Forms webpage. The HMCP submittal, review timeline, and signature requirements are the same as the SWPPP.
3. Spill Prevention, Control, and Countermeasure Plan. When a SPCC Plan is required under Subsection 641-2.03, submit an electronic copy and one hard copy of the SPCC Plan to the Engineer. Deliver these documents to the Engineer at least 21 days before beginning Construction Activity. The Department reserves the right to review the SPCC Plan and require modifications.
4. CGP Coverage. The Contractor is responsible for permitting of Contractor and subcontractor Construction Activities related to the Project. Do not use the SWPPP for Construction Activities outside the Project Zone where the Department is not an operator. For Construction Activities outside the Project Zone, the Contractor must use a SWPPP2. Department approval is not required for a SWPPP2.

After the Department certifies the SWPPP and prior to beginning Construction Activity, submit an eNOI with the required fee to DEC for coverage under the CGP. Submit a copy of the signed eNOI and DEC's written acknowledgement (by letter or other document), to the Engineer as soon as practicable and no later than three days after filing eNOI or receiving a written response.

Do not begin Construction Activity until the conditions listed in Subsection 641-3.01.1 are completed.

The Department will submit an eNOI to DEC for Construction Activities inside the Project Zone. The Engineer will provide the Contractor with a copy of the Department's eNOI and DEC's written acknowledgment (by letter or other document), for inclusion in the SWPPP.

Before Construction Activities occur, transmit to the Engineer an electronic copy and one hard copy of the approved and certified SWPPP, with signed Delegations of Signature Authorities on Forms 25D-107 and 25D-108, SWPPP Certifications on Forms 25D-111 and 25D-109, both permittee's signed eNOIs and DEC's written acknowledgement.

5. DEC SWPPP Review. When CGP Part 2.1.3, or 2.1.4 requires DEC SWPPP review:
  - a. Transmit a copy of the Department-approved SWPPP to DEC using delivery receipt confirmation;
  - b. Transmit a copy of the delivery receipt confirmation to the Engineer within seven days of receiving the confirmation; and
  - c. Retain a copy of delivery receipt confirmation in the SWPPP.
6. Local Government SWPPP Review. When local government or the CGP Part 2.1.4, requires local government review:

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- a. Transmit a copy of the Department-approved SWPPP and other information as required to local government, with the required fee. Use delivery receipt confirmation;
  - b. Transmit a copy of the delivery receipt confirmation to the Engineer within seven days of receiving the confirmation;
  - c. Transmit a copy of any comments by the local government to the Engineer within seven days of receipt;
  - d. Amend the SWPPP as necessary to address local government comments and transmit SWPPP Amendments to the Engineer within seven days of receipt of the comments;
  - e. Include a copy of local government SWPPP review letter in the SWPPP; and
  - f. File a notification with local government that the project is ending.
7. Modifying Contractor's eNOI. When required by the CGP Part 2.7, modify your eNOI to update or correct information within 30 calendar days of the change. Reasons for modification are in the CGP Part 2.7.1. The Contractor must submit an eNOT instead of an eNOI modification when the operator has changed. The new operator must file an eNOI to obtain permit coverage.

#### **641-1.04 PERSONNEL QUALIFICATIONS.**

Provide documentation in the SWPPP that the individuals serving in these positions meet the personnel qualifications. The Department accepts the following certificates as equivalent to AK-CESCL: Certified Professional in Erosion and Sediment Control (CPESC), or Certified Inspector in Sediment, and Erosion Control Certified (CISEC). These equivalent certificates are included in the CGP Appendix C and repeated below.

**TABLE 641-1.04 PERSONNEL QUALIFICATIONS**

| <b>Personnel Title</b> | <b>Required Qualifications</b>                                                                                                                                                                                                                                                                                                                                                                                                         |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SWPPP Preparer         | <ol style="list-style-type: none"> <li>1. Current certification as a Certified Professional in Erosion and Sediment Control (CPESC); or</li> <li>2. Current certification as AK-CESCL, and at least two years' experience in erosion and sediment control as a SWPPP Manager or SWPPP writer, or equivalent; or</li> <li>3. Professional Engineer registered in the State of Alaska with current certification as AK-CESCL.</li> </ol> |
| Superintendent         | Current AK-CESCL, or substitute training from CGP Appendix C, Qualified Person Table 4                                                                                                                                                                                                                                                                                                                                                 |
| SWPPP Manager          | Current AK-CESCL or substitute training from CGP Appendix C, Qualified Person Table 4.                                                                                                                                                                                                                                                                                                                                                 |

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| Personnel Title                  | Required Qualifications                                                                                                                                                                                                                                                                                 |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Active Treatment System Operator | Current AK-CESCL or substitute training from CGP Appendix C, Qualified Person Table 4. ATS operator should possess a recognized certification, or professional standing, or who by extensive knowledge, training, and experience has successfully demonstrated the ability to meet the ATS requirement. |

#### **641-1.05 SIGNATURE/CERTIFICATION REQUIREMENTS AND DELEGATIONS.**

1. eNOI and eNOT. The eNOI, eNOT, and eNOI Modifications must be signed and certified by a responsible corporate officer according to CGP Appendix A, Part 1.12. Signature and certification authority for the eNOI and eNOT cannot be delegated.
2. Delegation of Signature Authority for Other SWPPP Documents and Reports. Use Form 25D-108 to delegate signature authority and certification authority to the Superintendent position, according to CGP Appendix A, Part 1.12.3, for the SWPPP, Inspection Reports and other reports required by the CGP. The Superintendent position is responsible for signing and certifying the SWPPP, Inspection Reports, and other reports required by the CGP, except the eNOI, eNOI Modifications, and eNOT. The Engineer will provide the Department's delegation on Form 25D-107, which the Contractor must include in the SWPPP.
3. Subcontractor Certification. Subcontractors must certify on Form 25D-105, that they have read and will abide by the CGP and the conditions of the project SWPPP.
4. Signatures and Initials. Certify or initial the CGP documents and SWPPP forms, wherever a signature or initial is required.

#### **641-1.06 RESPONSIBILITY FOR STORM WATER PERMIT COVERAGE.**

107-1.02 includes the requirements to obtain permits, and to provide permit documents to the Engineer.

1. The Department and the Contractor are jointly responsible for permitting and permit compliance within the Project Zone.
2. The Contractor is responsible for permitting and permit compliance for all construction support activity in the Project Zone and outside the Project Zone. The Contractor has sole responsibility for compliance with DEC, COE, and other applicable federal, state, and local requirements, and for securing all necessary clearances, rights, and permits. The Contractor is responsible for protection, care, and upkeep of all work, and all associated off-site zones.

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3. The Contractor is responsible for obtaining an Excavation Dewatering Permit (AKG002000) if construction activities are within 1,500 feet of a DEC-identified contaminated site or groundwater plume.
4. An entity that owns or operates, a commercial plant (as defined in Subsection 108-1.01.4) or material source or disposal site outside the Project Zone, is responsible for permitting and permit compliance. The Contractor has sole responsibility to verify that the entity has appropriate permit coverage.
5. The Department is not responsible for permitting or permit compliance, and is not liable for fines resulting from noncompliance with permit conditions:
  - a. For areas outside the Project Zone;
  - b. For Construction Activity and Support Activities outside the Project Zone; and
  - c. For commercial plants, commercial material sources, and commercial disposal sites.

#### **641-1.07 UTILITY.**

Relocation Coverage. A Utility company is not an Operator when utility relocation is performed concurrently with the Project, as outlined in Section 105-1.06. The Department maintains operational control over the Utility's plans and specifications for coordination with project construction elements, and the Contractor has day-to-day control over the various utility construction activities that occur in support of the Project. A Utility company is considered a subcontractor for concurrent relocation.

After the Contractor has an active NOI for the Project, a Utility Company performing advance relocation work under a separate SWPPP no longer has Operator status and files the NOT for the Utility Company's SWPPP covering only the completed utility work. Remaining utility relocation work is included in and performed under the Project SWPPP.

#### **641-2.01 STORM WATER POLLUTION PREVENTION PLAN (SWPPP) REQUIREMENTS.**

1. SWPPP Preparer and Pre-Construction Site Visit.  
Use a SWPPP Preparer to develop the SWPPP according to the CGP, DEC and Department SWPPP Template. Subsection 641-1.02.01 provides directions to templates.

The SWPPP Preparer must conduct a pre-construction inspection at the Project site before construction activity begins. If the SWPPP Preparer is not a Contractor employee, the SWPPP Preparer must visit the site accompanied by the Contractor. Give the Department at least seven days advance notice of the site visit, so that the Department may participate.

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Document the SWPPP Preparer's pre-construction inspection in the SWPPP on Form 25D-106, SWPPP Pre-Construction Site Visit, include the names of attendees and the date.

2. Developing the SWPPP.

- a. Meet all CGP requirements.
- b. Use the Department's ESCP, Environmental commitments, and other Contract documents as a starting point for developing the SWPPP.
- c. Develop the SWPPP with sections and appendices according to the DEC CGP SWPPP Template and DOT&PF SWPPP Template. Include the information required by the Contract and described in the CGP Part 5.0. Use the forms available at the DOT&PF Construction Forms website.
- d. Compile the SWPPP in three ring binders with tabbed and labeled dividers for each appendix. Submit the SWPPP according to Subsection 641-1.03.

3. SWPPP Considerations and Contents.

- a. The SWPPP must provide erosion and sediment control measures for all Construction Activity within the Project Zone.

Construction activity outside the Project Zone must have permit coverage. Document permit compliance according to SWPPP2 requirements.

- b. The SWPPP must consider the activities of the Contractor and all subcontractors and utility companies performing work in the Project Zone. Describe the roles and responsibilities of the Contractor, subcontractors, utility companies, and the Department with regard to implementation of the SWPPP. Include the utility companies and other operators performing Construction Activity.  
Identify areas:

- (1) Over which each operator has operational control; and
- (2) Where the Department and Contractor are co-operators.

- c. For work outside the Project Zone the SWPPP must identify the entity that has storm water permit coverage, the operator, and areas that are:

- (1) Dedicated to the Project and where the Department is not an operator; and
- (2) Not dedicated to the project, but used for the project.

- d. If the project discharges to a Tier III, Outstanding Natural Resource Water, comply with the CGP Part 2.1.6. Submittal deadlines apply prior to filing an eNOI and

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beginning construction activities. As of the issuance of the CGP 2021, no Tier III, Outstanding Natural Resource Water is designated in the State of Alaska.

- e. There are special requirements in the CGP Part 3.2, for storm water discharges into an impaired water body. Monitoring of storm water discharges may be required. The Contractor is responsible for monitoring and reporting inside and outside the project zone.
- f. Describe the sequence and timing of activities that disturb soils and BMP implementation and removal. Phase earth-disturbing activities to minimize unstabilized areas, and to achieve temporary or final stabilization. Whenever practicable incorporate final stabilization work into excavation, embankment, and grading activities. Include drawings showing each phase of the project with the BMPs implemented in the Phase.
- g. Delineate the site according to the CGP Part 4.2.1.
- h. Minimize the amount of soil exposed and preserve natural topsoil on site, unless infeasible according to the CGP Part 4.2.2.
- i. Describe methods and time limits, to initiate temporary or final soil stabilization. Comply with stabilization requirements in the CGP Part 4.5.
- j. If construction will cease during winter months, describe all requirements for winter shutdown according to the CGP Part 4.12.
- k. Plans for ATS must meet with the requirements in the CGP Part 2.1.5 and 4.6.
- l. Design all temporary BMPs to accommodate a two year 24-hour storm event. Describe and document all installed control measures in the SWPPP according to the CGP Part 5.3.6. Include a citation from a published BMP Manual, publication, or manufacturers specification used as a source, or include a statement "No BMP Manual was used for this design". If using out of state BMPs, follow the instructions in the DOT&PF SWPPP Guide.
- m. Provide a legible site map or set of maps in the SWPPP, showing the entire site and identifying boundaries of the property where construction and earth-disturbing activities will occur. Include all elements described in the CGP Part 5.3.5 and the DEC CGP SWPPP Template Section 5.0.
- n. Identify the inspection frequency in the SWPPP according to the CGP Part 6.1; except, inspect once every seven calendar days regardless of the precipitation amount.
- o. Linear Project Inspections, described in CGP Part 6.5, are not applicable to this Contract.

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- p. The SWPPP must cite and incorporate applicable requirements of the Project permits, environmental commitments, COE permit, and commitments related to historic preservation. Make additional consultations or obtain permits as necessary for Contractor specific activities that were not included in the Department's permitting and consultation.
- q. The SWPPP is a dynamic document. Keep the SWPPP current by noting installation, modification, and removal of BMPs, and by using amendments, SWPPP amendment logs, Inspection Reports, corrective action logs, records of land disturbance and stabilization, and any other records necessary to document storm water pollution prevention activities and to satisfy the requirements of the CGP and this specification. See Subsection 641-3.03 for more information.

#### 4. Recording Personnel and Contact Information in the SWPPP.

Identify the SWPPP Manager as the Storm Water Lead and Storm Water Inspector positions in the SWPPP. Document the SWPPP Manager's responsibilities in Section 2.0 Storm Water Contacts, of the SWPPP Template and:

- a. Identify that the SWPPP Manager does not have authority to sign inspection reports (unless the SWPPP Manager is also the designated project Superintendent).
- b. Identify that the SWPPP Manager cannot prepare the SWPPP unless the SWPPP Manager meets the Contract requirements for the SWPPP Preparer.

Include in the SWPPP proof of AK-CESCL, or equivalent certifications for the Superintendent and SWPPP Manager, and for any acting Superintendent and acting SWPPP Managers. If the Superintendent or SWPPP Manager is replaced, permanently or temporarily, by an acting Superintendent or acting SWPPP Manager; record in the SWPPP, on Form 25D-127, the names of the replacement personnel, and date of replacement. For temporary personnel, record their beginning and ending dates.

Provide 24-hour contact information for the Superintendent and SWPPP Manager. The Superintendent and SWPPP Manager must have 24-hour contact information for all Subcontractor SWPPP Coordinators and Utility SWPPP Coordinators.

Include in the SWPPP, proof of AK-CESCL or equivalent certifications of ATS operators. Record names of ATS operators and their beginning and ending dates, on Form 25D-127.

The Department will provide proof of AK-CESCL, or equivalent certifications for the Department's Project Engineer, Storm Water Inspectors, and Monitoring Person, and names and dates they are acting in that position. Include Department's staff

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certifications in SWPPP Appendix E. Include the Department's staff names, dates acting, and assignments in Section 2.0 of the SWPPP and on Form 25D-127.

#### **641-2.02 HAZARDOUS MATERIAL CONTROL PLAN (HMCP) REQUIREMENTS.**

Prepare the HMCP using the Department template for the 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 SWPPP. Compile Material Safety Data Sheets in one location and reference that location in the HMCP.

#### **641-2.03 SPILL PREVENTION, CONTROL, AND COUNTERMEASURE PLAN (SPCC Plan) REQUIREMENTS.**

Prepare and implement an SPCC Plan, required by 40 CFR 112; when both of the following conditions are present on the project:

1. Oil or petroleum products from a spill may reach navigable waters (defined in 40 CFR 112), and
2. 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 SWPPP.

#### **641-2.04 RESPONSIBILITY AND AUTHORITY OF THE SUPERINTENDENT AND SWPPP MANAGER.**

The Superintendent shall certify the SWPPP, Inspection Reports, and other reports required by the CGP, except the eNOI and eNOT. The Superintendent may not delegate the task or responsibility of certifying these documents.

The Superintendent may assign certain duties to the SWPPP Manager.

1. Ensuring Contractor's and subcontractor's compliance with the SWPPP and CGP;
2. Ensuring the control of erosion, sedimentation, or discharge of pollutants;
3. Directing and overseeing installation, maintenance, and removal of BMPs;
4. Performing Inspections; and
5. Updating the SWPPP including adding amendments and forms.

When Bid Item 641.0007.0000 is part of the Contract, the SWPPP Manager must be a different person than the Superintendent, be available at all times to administer SWPPP

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requirements, and be physically present within the Project Zone or the project office, when construction activities are occurring.

The Superintendent and SWPPP Manager shall be knowledgeable in the requirements of Section 641, the SWPPP, CGP, BMPs, HMCP, SPCC Plan, environmental permits, and environmental commitments.

The Superintendent and SWPPP Manager shall have the Contractor's complete authority and be responsible for suspending construction activities that do not conform to the SWPPP or CGP.

#### **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 seed mixture specified in the Contract or as directed by the Engineer.

Use soil stabilization material as specified in Section 727.

Use silt fences as specified in Section 729.

Use straw and straw products certified weed free of prohibited and restricted noxious weed seed and quarantined pests, according to Alaska Administrative Code, Title 11, Chapter 34 (11 AAC 34). When straw or straw products certified according to 11 AAC 34 are not available, use non-certified products manufactured within Alaska before certified products manufactured in another state, country, or territory. Non-certified straw or straw products manufactured in another state, country, or territory shall not be used. Grass, legumes, or any other herbaceous plants produced as hay, shall not be substituted for straw, or straw products.

#### **641-3.01 CONSTRUCTION REQUIREMENTS.**

Comply with the SWPPP and the requirements of the CGP Part 5.0.

##### **1. Before Construction.**

The following actions must be completed before Construction Activity begins:

- a. The SWPPP Preparer must visit the Project. Document the visit on SWPPP Form 25D-106. The SWPPP must be developed, or amended with the findings from the visit.
- b. The SWPPP must be approved by the Engineer on Form 25D-109.
- c. The Contractor must be authorized to begin work by the Engineer.

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- d. The Project must have an eNOI for the Department and for the Contractor.
- e. The Department approved SWPPP must be submitted to DEC and Local Governments per CGP Part 2.1.2, Part 2.1.4, and Part 2.4.1.
- f. The Contractor has transmitted to the Engineer an electronic copy, and at least one hardcopy of the approved SWPPP.
- g. The Delegation of Authority, Forms 25D-108 and 25D-107, for both the Contractor and Engineer are signed.
- h. Main entrance signage must meet the requirements of CGP Part 5.10.2.  
Post notices on the outside wall of the Contractor's project office, and near the main entrances of the construction project. Protect postings from the weather. Locate postings so the public can safely read them without obstructing construction activities or the traveling public (for example, at an existing pullout). Do not use retroreflective signs for the SWPPP posting. Do not locate SWPPP signs in locations where the signs may be confused with traffic control signs or devices. Update the notices if the listed information changes.
- i. Track precipitation according to CGP Part 7.3.9. Submit the method to track precipitation to the Engineer for approval.

## 2. During Construction.

- a. Delineate The Site. Comply with the CGP Part 4.2.1.
- b. BMPs. Install BMPs according to the SWPPP prior to the initiation of ground disturbance.
- c. Document subcontractors. Provide a copy of the SWPPP and the CGP to all subcontractors and utility companies before they begin soil-disturbing activities. Verify they understand and comply with the SWPPP and CGP.
  - (1) Document all subcontractors and utility companies that may work on the site, according to the CGP Part 5.3.1, and SWPPP Section 1.2.
  - (2) Require subcontractors and utility companies to sign the SWPPP Subcontractor Certification, Form 25D-105. Include Form 25D-105 in the SWPPP Appendix E.
  - (3) Inform subcontractors and utility companies, in a timely manner, of SWPPP amendments that affect them. Coordinate with subcontractors and utility companies to protect BMPs, including temporary and final stabilization from damage.

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- (4) Notify the Engineer immediately if the actions of any utility company or subcontractor do not comply with the SWPPP and the CGP.
- d. Provide Training. Provide ongoing training to all employees, subcontractors, and utility companies according to the CGP Part 4.14.
  - (1) Provide training no less than once a month during construction activity;
  - (2) Document training in the SWPPP Training Log on Form 25D-125. Include the training record in the SWPPP Appendix I.
- e. Protection and Restoration. Comply with Subsection 107-1.11.
- f. Good Housekeeping Measures. Comply with the SWPPP and CGP Part 4.8.
- g. Control Measures. Comply with the SWPPP and CGP Part 5.3.6.
  - (1) Maintain BMPs.
  - (2) Comply with requirements of the HMCP and SPCC Plan, and all local, state, and federal regulations that pertain to the handling, storage, containment, cleanup, and disposal of petroleum products or other hazardous materials.
  - (3) Keep the SWPPP and HMCP current, Subsection 641-2.01.3, SWPPP Considerations and Contents.
- 3. Winter Construction.  
If winter construction activity occurs, the project must have BMPs in place, Part 4.12.2. Inspections can be reduced to once per month if the project meets the CGP Part 6.2.4.
- 4. Storm Water Discharge Pollutant Reporting Requirements.  
If an incident of non-compliance occurs, that may endanger health or the environment, a report must be made, CGP Appendix A, Part 3.4.

A permit non-compliance is any type of pollutant, such as turbidity or petroleum that enters storm water runoff and flows into a receiving water body, MS4, or wetland that is connected to waters of the U.S.

- a. Report the incident to the Engineer immediately;
- b. Report to DEC orally within 24 hours after the permittee becomes aware of the incident; and
- c. Report to DEC in writing within five days after the permittee becomes aware of the circumstances. To report in writing, complete the written noncompliance report on

Form 25D-143, and file the written report with DEC. Coordinate the report with the Engineer. Include in the report:

- (1) A description of the noncompliance and its causes;
- (2) The exact dates and times of noncompliance;
- (3) If not yet corrected the anticipated time the project will be brought back into compliance; and
- (4) The corrective action taken or planned to reduce, eliminate and prevent reoccurrence.

d. Report an incident of noncompliance with COE Permits to the Engineer immediately. The Engineer will notify the COE.

5. Hazardous Materials Reporting Requirements.

Report any release of a hazardous substance immediately to the Engineer, as soon as the person has knowledge of the discharge.

Report spills of petroleum products or other hazardous materials to the Engineer and other agencies as required by law, and according to the CGP Part 9.3.

a. To water.

Any amount of hazardous material released must be reported immediately to the Engineer, DEC, and the Coast Guard.

b. To land.

Any release of a petroleum product, must be reported as soon as the person has knowledge of the discharge, CGP Part 9.3.2.

(1) Release in excess of 55 gallons,

(2) Release in excess of 10 gallons but less than 55 gallons, must be reported to the DEC within 48 hours after the person has knowledge of the discharge, and

(3) Release in excess of 1 gallon to 10 gallons, must be recorded, logged, and provided to the DEC on a monthly basis.

c. Use the HMCP and SPCC Plan for contact information to report spills to regulatory agencies.

d. Implement measures to prevent the reoccurrence of and to respond to the release of hazardous materials.

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- e. Prior to disposal of contaminated material, submit a Contaminated Media Transport and Treatment Disposal Approval Form to the DEC Division of Spill Prevention and Response. Dispose as approved by the DEC.

6. Maintenance of BMPs and Corrective Action.

Implement maintenance and corrective action as required by the CGP Part 4.13 and Part 8.0, SWPPP, and manufacturer's specifications, whichever is more restrictive.

- a. Implement corrective actions. Comply with the CGP Part 8.0 and the SWPPP.
- b. Corrective Action deadlines and documentation.

(1) Complete Corrective actions according to the CGP Part 8.2.

(2) Document corrective actions in the Corrective Action Log, Form 25D-112, according to the SWPPP, CGP Part 5.9.2, and Part 8.3.

If a different BMP is installed to correct the condition leading to the corrective action, a SWPPP Amendment must be completed.

(3) Document the conditions, in the Corrective Action Log, for corrective actions not completed according to the CGP 8.2. Notify the Engineer, and implement the corrective action as soon as possible.

The Engineer may assign a new complete-by date using a Delayed Action Item Report, Form 25D-113 (DAIR Form), if the Contractor is unable to complete the corrective action within the required timeframe. The DAIR Form can only be authorized and completed by the Engineer.

7. Stabilization.

- a. All Soil stabilization requirements must be met in accordance with CGP Part 4.5 and the SWPPP.
- b. 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.
- c. Apply temporary seed and stabilization measures after preparing the surface to reduce erosion potential and to facilitate germination and growth of vegetative cover according to Section 618 and 619.

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- d. Apply permanent seed and other stabilization measures after land-disturbing activity has permanently ceased. Comply with the CGP, SWPPP, and the Contract Sections 618, 619, 724, and 727.
- e. Incorporate final or temporary stabilization immediately after installing culverts or other drainage structures to satisfy the CGP Part 4.5, SWPPP and Engineer. Stabilize under any bridge and in areas upstream and downstream of culverts, drainages and areas disturbed by related construction activities after installation, or before deactivating stream bypass or diversion.
- f. Stabilization before Fall Freeze-up, and Spring Thaw.  
Stabilize Construction Activities within the Project Zone with BMPs prior to the anticipated date of fall freeze-up, according to the SWPPP and CGP Part 4.12. Exceptions to stabilization prior to anticipated date of fall freeze-up include:
  - (1) Where temporary stabilization activities are precluded by snow cover or frozen ground conditions prior to the anticipated date of fall freeze-up, stabilization measures must be initiated as soon as practicable following the actual spring thaw.
  - (2) When winter construction activity is authorized by the Engineer and conducted according to the Contract.

#### 8. Ending CGP Coverage.

- a. The Engineer will determine the date that the following conditions for ending CGP coverage have been met within the Project Zone:
  - (1) Land disturbing activities have ceased;
  - (2) Final Stabilization has been achieved on all portions of the Project Zone, including Department furnished material sources, disposal sites, staging areas, equipment areas, etc., according to the CGP Part 4.5.2; and
  - (3) Temporary BMPs have been removed.
- b. After the Engineer has determined the conditions for submitting an eNOT have been met according to the CGP Part 10.2, the Department will:
  - (1) Send written notice to the Contractor with the date that the conditions were met;
  - (2) Submit an eNOT to DEC within 30 days, and
  - (3) Provide a copy of the eNOT and DEC's acknowledgement letter to the Contractor.

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- c. If the Contractor's CGP eNOI acreage includes Support Activities and any other areas where the Department is not an Operator, the Contractor may not be able to file an eNOT at the same time as the Department.
  - d. The Contractor must submit a copy of each signed eNOT and DEC's acknowledgement letter to the Department within three days of filing the eNOT or receiving a written response. Insert the eNOT and DEC acknowledgement letter in the SWPPP Appendix Q.
  - e. The Contractor is responsible for coordinating local government inspections of work and ending permit coverage with local governments. See Subsection 641-1.03.6 for more information.
9. Ending Inspections, BMP maintenance, and SWPPP Updates in the Project Zone.  
The Contractor is responsible for continuing inspections, BMP maintenance, and SWPPP updates until permit coverage is ended.
10. Transmit final SWPPP.  
Transmit one electronic copy of the final SWPPP to the Engineer according to Subsection 641-1.03.1.

#### **641-3.02 SWPPP DOCUMENTS, LOCATION ON-SITE, AVAILABILITY, AND RECORD RETENTION.**

The SWPPP and related documents maintained by the Contractor are the Record for demonstrating compliance with the CGP. Copies of SWPPP documents transmitted to the Engineer under the requirements of this specification are informational and do not relieve the Contractor's responsibility to maintain complete records as required by the CGP and this specification.

Keep the SWPPP, HMCP, and SPCC Plan at the on-site project office. If there is not an on-site project office, keep the documents at a locally available location that meets CGP requirements and is approved by the Engineer. Records may be moved to another office for record retention after the eNOTs are filed. Records may be moved to another office during winter shutdown. Update on-site postings if records are relocated during winter shutdown. Provide the Department with copies of all Records. Retain Records including a copy of the SWPPP, for at least three years after the date of eNOT according to the CGP Part 9.4.

The SWPPP and related documents must be made available for review and copy, to the Department and other regulatory agencies that request them. See CGP Parts 5.10, 6.6 and 9.5.

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### **641-3.03 SWPPP INSPECTIONS, AMENDMENTS, REPORTS, AND LOGS.**

Perform Inspections, prepare Inspection Reports, and prepare SWPPP Amendments in compliance with the SWPPP and the CGP using Department forms from the DOT&PF Construction Forms website.

#### **1. Inspection during Construction.**

Conduct Inspections according to the schedule and requirements of the SWPPP and CGP Part 6.0, except inspect once every seven calendar days regardless of the precipitation amount, Subsection 641-2.01.3.n.

Inspections required by the CGP and SWPPP must be performed by the Contractor's SWPPP Manager and the Department's Storm Water Inspector jointly, unless approved by the Engineer, when:

- a. One of the inspectors is not on site, access is only by air, and weather delayed or canceled flights;
- b. One of the inspectors is sick;
- c. The project is on a reduced frequency inspection schedule with no staff on site, the only access to the site is by air, and it is economical to send only one inspector; or
- d. When the Engineer determines a safety concern that makes joint inspection impracticable.

When this is the case, the Operator who conducts the Inspection must provide a copy of the Inspection Report to the other Operator within three days of the Inspection date and document the date of the report transmittal in Appendix K.

#### **2. Inspection Reports.**

Use only the Department SWPPP Construction Site Inspection Report, Form 25D-100, to record Inspections. Changes or revisions to Form 25D-100 are not permitted, except for adding or deleting data fields that list: Location of Discharge Points and Site Specific BMPs. Complete all fields in the Inspection Report; do not leave any field blank.

The Superintendent or SWPPP Manager must review and correct all errors within three days of the date of inspection.

Inspection Reports must be signed by the person described in the CGP Appendix A, Part 1.12 or by a duly authorized representative of that person. Only the Superintendent can certify the Inspection Form.

Insert a Complete-by-Date for each corrective action listed that complies with the CGP Part 8.2.

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Provide a copy of the completed, unsigned Inspection Report to the Engineer by the end of the next business day following the inspection.

The Engineer may coordinate with the Superintendent to review and correct any errors or omissions before the Superintendent signs the report. Corrections are limited to adding missing information or correcting entries to match field notes and conditions present at the time the Inspection was performed. The signed and certified Inspection Report must be provided to the Engineer on the same day the Superintendent signed the form.

The Engineer will sign and certify the Inspection Report and will return the original to the Contractor within three working days if compliant with the CGP and SWPPP.

If the Inspection Report is not compliant with the CGP or SWPPP, the Engineer may make corrections after the Superintendent has signed and certified the Inspection Report. The Engineer will initial and date each correction. If the Engineer makes corrections, the Superintendent must recertify the Inspection Report by entering a new signature and date in the white space below the original signature and date lines. Send a copy of the recertified Inspection Report to the Engineer on the day it is recertified. When an Inspection Report, certified by both the Superintendent and Engineer, requires corrections:

- a. Document the corrections in an addendum memo addressing only the omitted or erroneous portions.
- b. Superintendent and Engineer sign and certify the updated Inspection Report and the addendum memo.
- c. File the corrected Inspection Report and addendum memo in Appendix K and update the amendment log.

The issuance of an addendum memo does not relieve the Contractor of liquidated damages that may have been incurred as a result of the error on the original certified inspection report.

3. Items and Areas to Inspect.

Conduct inspections of all areas required by the CGP Part 6.4 and SWPPP.

4. Reduced Inspection Frequencies.

Conduct Inspections according to the inspection schedule indicated in the approved SWPPP. Any change in inspection frequency must be approved by the Engineer, and beginning and ending dates documented as an amendment to the SWPPP.

The frequency of inspections may be reduced according to the CGP Part 6.2.1 if the site is stabilized and the reduced frequency is approved by the Engineer. At actively

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staffed sites, inspect within two business days of the end of a storm event that results in a discharge from the site.

5. Winter Shutdown Inspections.

Conduct winter shutdown inspection 14 calendar days after the anticipated fall freeze-up date and conditions under the CGP Parts 4.12. and 6.2.3, and the SWPPP are met. The Engineer may approve suspension of inspections and waive requirements for updating the Grading and Stabilization Activities Log and Daily Record of Rainfall, Form 25D-115, during winter shutdown.

Inspections must resume on a regular frequency or reduced inspection frequency identified in the SWPPP, at least 21 days before anticipated spring thaw, CGP Part 6.2.3. Resume updating the Daily Record of Rainfall Form at the start of the 21-day spring thaw inspection.

6. Inspection before Project Completion.

Conduct Inspection to ensure Final Stabilization is complete throughout the Project, and temporary BMPs that are required to be removed are removed. Temporary BMPs that are biodegradable and are specifically designed and installed with the intent of remaining in place until they degrade, may remain in place after project completion if approved by the Engineer.

7. SWPPP Amendments and SWPPP Amendment Log.

The SWPPP Amendment Log, Form 25D-114, must be filled out by an individual who holds a current AK-CESCL, or equivalent certification. The Superintendent or the SWPPP Manager must sign and date amendments to the SWPPP and updates to the SWPPP Amendment Log.

SWPPP Amendments must be approved by the Engineer.

Amendments must occur:

- a. Whenever there is a change in design, construction operation, or maintenance at the construction site that has or could cause erosion, sedimentation or the discharge of pollutants that has not been previously addressed in the SWPPP;
- b. If an Inspection identifies that any portion of the SWPPP is ineffective in preventing erosion, sedimentation, or the discharge of pollutants;
- c. Whenever an Inspection identifies a problem that requires additional or modified BMPs or a BMP not shown in the original SWPPP is added;
- d. If the Inspection frequency is modified (note beginning and ending dates);
- e. When there is a change in personnel who are named in the SWPPP, according to Subsection 641-2.01;

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- f. When an inspection is not conducted jointly;
- g. When an eNOI modification is filed;
- h. When a Noncompliance Report is filed with the DEC.

Place all correspondence with the DEC, EPA or MS4s in Appendix Q.

Amend the SWPPP as soon as practicable after any change or modification, but in no case, later than seven days following identification of the need for an amendment. All SWPPP Amendments must have an amendment number, be dated, and signed.

Keep the SWPPP Amendment Log current. Prior to a scheduled Inspection or submittal of an inspection, submit to the Engineer a copy of the pages of the Amendment Log that contain new entries since the last submittal. Include copies of any documents amending the SWPPP.

Keep the SWPPP Amendment Log in appendix M.

8. Site Maps.

Maintain site maps in accordance with CGP Part 5.3.5 and the SWPPP Template 5.0. It is acceptable to have separate site maps for BMPs, grading and stabilization activities.

9. Corrective Action Log.

The Superintendent and SWPPP Manager are the only persons authorized to make entries on the SWPPP Corrective Action Log, Form 25D-112.

The Corrective Action Log must document corrective actions required by the conditions listed in the CGP Part 8.0. Document the need for corrective action within 24 hours of either:

- a. Identification during an inspection, or
- b. Discovery by the Department's or Contractor's staff, a subcontractor, or a regulatory agency inspector.
- c. If a corrective action is discovered outside of an inspection, update the log with the date of discovery, the proposed corrective action, and the date the corrective action was completed.

Keep the Corrective Action Log current and submit a copy to the Engineer prior to performing each scheduled SWPPP Inspection.

Keep the Corrective Action Log in Appendix J.

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**10. Grading and Stabilization Activities Log.**

The Superintendent and SWPPP Manager are the only persons authorized to date and initial entries on the SWPPP Grading and Stabilization Activities Log, Form 25D-110. Use the SWPPP Grading and Stabilization Activities Log, to record land disturbance and stabilization activities.

Keep the Grading and Stabilization Activities Log current and submit a copy to the Engineer prior to performing each scheduled SWPPP Inspection. Keep the Grading and Stabilization Activities Log organized and completed to demonstrate compliance with the CGP Part 4.5.

Keep the Grading and Stabilization Activities Log in Appendix G.

**11. Daily Record of Rainfall.**

Use SWPPP Daily Record of Rainfall, Form 25D-115, to comply with CGP Part 7.3.9. Submit a copy to the Engineer with each completed Inspection Report. Keep the Daily Record of Rainfall current in Appendix N.

**12. Staff Tracking Log.**

Use the SWPPP Project Staff Tracking, Form 25D-127, to identify project staff that are required to be AK-CESCL certified or an equivalent qualification, CGP Appendix C. Complete this form to document the positions of Superintendent, SWPPP Manager, Engineer, DOT&PF Storm Water Inspector, and when these positions have changed personnel, either permanently or temporarily. Update the SWPPP Project Staff Tracking Form within 24 hours of any changes in personnel, qualifications, or other staffing items related to administration of the CGP or Section 641.

**641-3.04 FAILURE TO PERFORM WORK.**

The Engineer has authority to suspend work and withhold monies for an incident of non-compliance with the CGP, or the SWPPP, that may endanger health or the environment or for failure to perform work related to Section 641.

**Non-compliance.**

**1. Incidents of Non-compliance.** Failure to:

- a. Obtain appropriate permits before Construction Activities occur;
- b. Perform SWPPP Administration;
- c. Perform timely Inspections;
- d. Update the SWPPP;
- e. Transmit updated SWPPP, Inspection Reports, and other updated SWPPP forms to the Engineer;

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- f. Maintain effective BMPs to control erosion, sedimentation, and pollution in accordance with the SWPPP, the CGP, and applicable local, state, and federal requirements;
  - g. Perform duties according to the requirements of Section 641;
  - h. Meet requirements of the CGP, SWPPP, or other permits, laws, and regulations related to erosion, sediment, or pollution control; or
  - i. Any other requirements established or included in the Contract.
2. **Notice of non-compliance**, either oral or written will include:
- a. Reason/defects
  - b. Corrective actions required
  - c. Time allowed for completing the corrective action
3. **Levels of Non-compliance and Response** correspond with harm to the workers, the public or the environment and whether the harm is:
- a. **Not-imminent**, the Engineer will either orally or in writing, or both, provide notice to the Contractor indicating the incident of non-compliance.  
Contractor's that take corrective action and complete the action to the satisfaction of the Engineer, within the time specified, may return to the status of compliance, and avoid elevating the response to imminent.
  - b. **Imminent**, the Engineer will orally provide notice to the Contractor of non-compliance and promptly provide written notice to suspend work until corrective action is completed.

Additional actions, taken against the Contract whether the level of non-compliance is Not-imminent or Imminent, may include:

- a. Withholding monies until corrective action is completed
- b. Assessing damages or equitable adjustments
- c. Employing others to perform the corrective action and deduct the cost

No additional Contract time or additional compensation is allowed due to delays caused by the Engineer's suspension of work.

### 641-3.05 ACCESS TO WORK.

The Project, including any related off-site areas or support activities, must be made available for inspection, or sampling and monitoring, by the Department and other regulatory agencies. CGP Part 6.6.

### 641-4.01 METHOD OF MEASUREMENT.

See Section 109 and as follows:

Item 641.0005.0000, measured as specified in the Directive authorizing the work.

Item 641.0006.0000, measured as specified in Table 641-2 Version C.

### 641-5.01 BASIS OF PAYMENT.

1. BMP Values. Table 641-1 BMP Values – Reserved.
2. Erosion, Sediment, and Pollution Control - Liquidated Damages. Liquidated Damages assessed according to Table 641-2 are not an adjustment to the Contract amount. These damages charges are related to Contract performance but are billed by the Department to the Contractor, independent of the Contract amount. An amount equal to the Liquidated Damages may be withheld, for unsatisfactory performance, from payment due under the Contract until the Contractor remits payment for billed Liquidated Damages.

**TABLE 641-2- VERSION C**  
**EROSION, SEDIMENT AND POLLUTION CONTROL – LIQUIDATED DAMAGES**

| Code     | Specification Section Number and Description                                                                                                                                                                                                            | Deductible Amount in Dollars | Cumulative Deductible Amounts in Dollars |
|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|------------------------------------------|
| <b>A</b> | 641-1.05 Failure to have a qualified (AK-CESCL or equivalent) SWPPP Manager                                                                                                                                                                             | Calculated in Code B or F    |                                          |
| <b>B</b> | Failure to meet SWPPP requirements of:<br>(1) 641-2.01.1 Name of SWPPP Preparer<br>(2) Not Applicable<br>(3) 641-3.03.8 Sign and Date SWPPP amendments by qualified person.<br>(4) 641-3.02 Records maintained at project and made available for review | \$750 per omission           |                                          |
| <b>C</b> | Not Applicable.                                                                                                                                                                                                                                         |                              |                                          |
| <b>D</b> | 641-3.03.5 Failure to stabilize a Project prior to fall freeze-up.                                                                                                                                                                                      | \$5,000 per Project per year |                                          |

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| <b>Code</b> | <b>Specification Section Number and Description</b>                                                                                                                                                              | <b>Deductible Amount in Dollars</b>                     | <b>Cumulative Deductible Amounts in Dollars</b>                                                |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|------------------------------------------------------------------------------------------------|
| <b>E</b>    | 641-2.01.1. Failure to conduct pre-construction inspections before Construction Activities on all projects greater than 1 acre.                                                                                  | \$2,000 per Project                                     |                                                                                                |
| <b>F*</b>   | 641-3.03. Failure to conduct and record CGP Inspections<br>641-3.03.1 Personnel conducting Inspections and Frequency<br>641-3.03.2 Inspection Reports, use Form 25D-100, completed with all required information | \$750 per Inspection                                    | Additional \$750 for every additional 7 day period without completing the required inspection. |
| <b>G</b>    | 641-3.01.4 Corrective action, failure to timely accomplish BMP maintenance and/or repairs. In effect until BMP maintenance and/or repairs is completed.                                                          | \$500 per Project per day                               |                                                                                                |
| <b>H</b>    | 641-3.01.3 Failure to provide to the Engineer and DEC a timely oral noncompliance report of violations or for a deficient oral noncompliance report                                                              | \$750 for the first day the report is late or deficient | Additional \$750 for every 14 day period without the required information                      |
| <b>I</b>    | 641-3.01.3 Failure to provide to the Engineer and DEC a timely written noncompliance report, use Form 25D-143, of violations or for a deficient written noncompliance report                                     | \$750 for the first day the report is late or deficient | Additional \$750 for every 14 day period without the required information                      |
| <b>J</b>    | 641-3.04 Failure to comply with the requirements of the CGP, approved SWPPP, and Section 641, except as listed above                                                                                             | \$750 per occurrence for the first day of noncompliance | Additional \$750 for every day the deficiency remains uncorrected                              |

**\*CODE F.** Liquidated Damages according to Code F will not be billed for typographic errors and minor data entry errors, except the liquidated damages will be assessed for these errors when:

- the Contractor has previously been notified and subsequent inspection reports repeat the same or similar error,
- multiple inspection reports are submitted after the submission due date and the same or similar errors are repeated on multiple overdue reports,
- an error in recording the inspector's AK-CESCL certification date results in an inspector performing the inspection during a period when their certification was lapsed or was otherwise invalid

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

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, SWPPP and HMCP and SPCC Plan preparation, agency fees for SWPPP reviews, SWPPP amendments, pre-construction Inspections, Inspections, monitoring, reporting, and recordkeeping or copying Records related to the SWPPP and required by the CGP, and Record retention.

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 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 Withholding. The Engineer may withhold an amount equal to Liquidated Damages, assessed according to Section 641, from payment due the Contractor. Liquidated Damages for violations of the Contract, CWA, and CGP are determined by the Engineer according to Table 641-2. The Engineer may withhold payment due the Contractors until the Contractor pays the Liquidated Damages to the Department. The Department will not release performance bonds until Liquidated Damages 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 Zone 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:

1. Dewatering;
2. Shoring;
3. Bailing;
4. Permanent seeding;
5. Installation and removal of temporary work pads;
6. Temporary accesses;
7. Temporary drainage pipes and structures;
8. Diversion channels;

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9. Settling impoundment; and
10. 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 Engineer, or for the Contractor's convenience, are at the Contractor's expense.

Payment will be made under:

**PAY ITEM**

| <b>Item Number</b> | <b>Item Description</b>                                           | <b>Unit</b> |
|--------------------|-------------------------------------------------------------------|-------------|
| 641.0001.0000      | Erosion, Sediment and Pollution Control<br>Administration         | LS          |
| 641.0005.0000      | Temporary Erosion, Sediment and Pollution<br>Control by Directive | CS          |
| 641.0006.0000      | Withholding                                                       | CS          |

CR641-123121R

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## **SECTION 642 CONSTRUCTION SURVEYING AND MONUMENTS**

### **642-3.02 CROSS-SECTION SURVEYS** Add the following:

Original ground, post-grubbing, post-excavation, and aggregate cross sections shall be taken at identical stations so that no interpolation of data is needed to calculate end areas.

Where an exact placement is not shown on the plans, the Department will be responsible for field locating the structures, signs, and mounds. The Contractor shall provide the Engineer with sufficient horizontal and vertical control to enable the Engineer to field locate these facilities. The Contractor shall be responsible for all surveying required to construct the field located item.

(05/02/11) 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.

The Notice to Proceed will not be issued until March 2027.

### **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:

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

The site may be closed to traffic. Site closure is intended to complete the work in this contract. All 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. Any closures must have a set timeline and completion date. Include closure sign(s) in the TCP.

Outside of construction limits, the western side of the recreation site shall remain open during construction. Include sign(s), in the TCP, to direct users to the west and away from the construction area.

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

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**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 643.0002.0000 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 643.0002.0000 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 |
|---------------|---------------------|------|
| 643.0002.0000 | Traffic Maintenance | LS   |

(01/30/26)PARKS-Special Provision

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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

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equipment to its capacity. Personnel furnished by the Contractor shall be, and shall remain during the work hereunder, employees solely of the Contractor.

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.**

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.

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**PAY ITEM**

| <b>Item Number</b> | <b>Item Description</b>                    | <b>Unit</b> |
|--------------------|--------------------------------------------|-------------|
| 647.0006.0000      | Hydraulic Excavator, 1 CY, 100 HP, Minimum | Hour        |

C647-16.1103-2

Replace Section 651 with the following:

**SECTION 651  
CONTROL OF WORK – SUPPLEMENTAL REQUIREMENTS**

**651-1.01 DESCRIPTION.** Supplemental requirements for Section 105, Control of Work.

**651-1.02 RELATED SECTIONS.** Section 105, Control of Work

**651-1.03 UTILITIES.** Request locates from the utilities having facilities in the area. Use the Alaska Digline, Inc. "Locate Call Center" for the following utilities.

**ALASKA DIGLINE, INC.**

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Locate Call Centers:

|           |                |
|-----------|----------------|
| Fairbanks | (907) 459-6400 |
| Statewide | (800) 478-3121 |

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Call Centers will notify the following:

- Aircraft Service International Group (ASIG)
- Alaska Communications Systems (ACS)
- Alaska Fiber Star (WCI)
- Alaska Native Medical Center (ANMC)
- Alaska Railroad Corporation (ARRC)
- Anchorage School District (ASD)
- Anchorage Water & Wastewater Utility (AWWU)
- Arctic Slope Telephone Assoc. (ASTAC)
- AT & T Alascom (AT&T)
- Chevron-Union Oil of California (UNOCAL)
- Chugach Electric Association (CEA)
- City of Homer (HPW)
- City of Valdez Public Works (COV)
- City of Wasilla (CWPW)
- ConocoPhillips Alaska, Inc. (CPA)
- Cook Inlet Pipeline Co. (CIPC)
- Copper Valley Electric Assoc. (CVE)
- Copper Valley Telephone Coop. (CVTC)
- Doyon Utilities, LLC. (DOYON)
- ENSTAR Natural Gas (ENS)
- Fairbanks Natural Gas (FNG)
- Flint Hills Resources (FHR)
- GCI Communication Corp.
- Homer Electric Association (HEA)
- Kodiak Electric Association (KEA)
- Marathon Oil Company (MOC)
- Marathon Pipe Line LLC. (MARATHN)

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**ALASKA DIGLINE, INC.**

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**Locate Call Centers:**

|           |                |
|-----------|----------------|
| Fairbanks | (907) 459-6400 |
| Statewide | (800) 478-3121 |

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Matanuska Electric Association (MEA)  
Matanuska Telephone Association (MTA)  
Municipality of Anchorage Signal & Street Maint.  
Municipal Light & Power (ML&P)  
Northern Utility services (NUS)  
State of AK, DOT/PF Anchorage Street Lights  
(DOT)  
Ted Stevens International Airport (TSAIA)  
Telalaska Inc. (Interior Phone, Eyecom TV & Mukluk  
Telecom)  
Tesoro Alaska (TESORO)  
United Utilities, Inc. (UNITED)  
XTO Energy (XTO)

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Replace Section 652 with the following:

**SECTION 652  
PROSECUTION AND PROGRESS – SUPPLEMENTAL REQUIREMENTS**

**652-1.01 DESCRIPTION.** Supplemental requirements for Section 108. Prosecution and Progress.

**652-1.02 RELATED SECTIONS.** Section 108, Prosecution and Progress.

**652-1.03 PROSECUTION AND PROGRESS.** In Subsection 108-1.03:

- Replace the last sentence in the 1<sup>st</sup> paragraph with: "Submit the following at the Preconstruction Conference:"
- Replace No. 1 with: "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, subcontractors, and utilities will start and finish each of the salient features of the work, including scheduled periods of shutdown. Indicate anticipated hours of operations and periods of multiple shift work. Revise the proposed schedule promptly. Promptly submit a revised CPM Schedule if there are substantial changes to the schedule, or upon request of the Engineer."

**652-1.04 LIMITATION OF OPERATIONS.** In Subsection 108-1.04:

- Add: "Limit ground disturbed by construction activities and not permanently stabilized between all roadways combined, at any specific time, to a maximum of 11,000 feet parallel to the roadway(s), unless additional length is approved. Stabilize disturbed ground according to Section 641 Erosion, Sediment, and Pollution Control."

## SECTION 702 ASPHALT MATERIALS

Replace Subsection 701-2.01 with the following:

**702-2.01 ASPHALT BINDER.** Meet AASHTO M 320 or M 332 for the specified Performance Grade, except as indicated in Table 702-2.01-1 Exceptions to Performance-Graded Binder Specifications.

**TABLE 702-2.01-1  
EXCEPTIONS TO PERFORMANCE GRADED ASPHALT BINDER SPECIFICATIONS**

| Performance Grade | AASHTO Specification | Viscosity AASHTO T 316 | MSCR, AASHTO T 350            |               |                           | PAV, Dynamic Shear AASHTO T 315 | Direct Tension AASHTO T 314 |
|-------------------|----------------------|------------------------|-------------------------------|---------------|---------------------------|---------------------------------|-----------------------------|
|                   |                      |                        | $J_{NR3.2}$ kPa <sup>-1</sup> | $J_{NR}$ Diff | % Recovery <sub>3.2</sub> |                                 |                             |
| PG 52-28          | M 320                | None                   | —                             | —             | —                         | None                            | Delete                      |
| PG 52-34 E        | M 332                | None                   | None                          | Delete        | 60 min.                   | None                            | Delete                      |
| PG 58-28 E        | M 332                | None                   | None                          | Delete        | 60 min.                   | None                            | Delete                      |
| PG 58-34 V        | M 332                | None                   | None                          | Delete        | 60 min.                   | None                            | Delete                      |
| PG 64-28 E        | M332                 | None                   | None                          | Delete        | 60 min.                   | None                            | Delete                      |
| PG 52-40 E        | M 332                | None                   | None                          | Delete        | 75 min.                   | None                            | Delete                      |
| PG 58-34 E        | M 332                | None                   | 0.25 max.                     | Delete        | 85 min.                   | None                            | Delete                      |
| PG 64-40 E        | M 332                | 1 Pa•s max.            | 0.10 max.                     | Delete        | 95 min.                   | 5000 max. @ 4°C                 | Delete                      |

None indicates no exceptions from the listed test. Delete indicates this property is not required from the listed test.

Use asphalt binders without re-refined engine oil bottoms (REOB)/vacuum tower extenders (VTAE) as a modifier. REOB/VTAE are materials as defined in the Asphalt Institute document IS-235. Furnish a certificate of compliance according to Subsection 106-1.05.1 certifying that REOB/VTAE were not used as a modifier of asphalt binder.

**HSM20.44-23.0801**

### **702-2.03 EMULSIFIED ASPHALT.**

Replace item 1. with the following:

1. Cationic Emulsified Asphalt. Meet AASHTO M 208, except CRS-2P meet AASHTO M316.

**HSM20.32-21.1231**

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**702-2.07 WARM MIX ASPHALT (WMA).** Add the following to Table 702-3:

| <b>WMA Technology</b> | <b>Process Types</b> | <b>WMA Supplier</b>   |
|-----------------------|----------------------|-----------------------|
| AD-here ULTRA 1       | Chemical Additive    | Arkema – Road Science |
| Cecabase RT           | Chemical Additive    | Arkema – Road Science |

HSM20.44-23.0801

## 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  |
|--------------------|-------------|----------------|--------------|
| <b>Micro-Deval</b> | 15%, max.   | 15%, max.      | AASHTO T 327 |

**HSM20.40-22.0501**

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                                   | Specification | Type II, Class A | Type I; Type II, Class B; Type III | Type IV    | Type VH    |
|-----------------------------------------------|---------------|------------------|------------------------------------|------------|------------|
| <b>LA Wear, % max.</b>                        | AASHTO T 96   | 45               | 45                                 | 45         | 45         |
| <b>Micro-Deval, % max.</b>                    | AASHTO T 327  | 18               | 18                                 | 18         | 18         |
| <b>Sodium Sulfate Loss, % max. (5 cycles)</b> | AASHTO T 104  | 9                | 9                                  | 9          | 9          |
| <b>Fracture, % min.</b>                       | ATM 305       | 90, 2 face       | 80, 1 face                         | 90, 2 face | 98, 2 face |
| <b>Flat-Elongated Pieces, % max.</b>          | ATM 306       |                  |                                    |            |            |
| <b>1:5</b>                                    |               | 8                | 8                                  | 8          | 8          |
| <b>Absorption, % max.</b>                     | ATM 308       | 2.0              | 2.0                                | 2.0        | 2.0        |

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| Description                        | Specification | Type II,<br>Class A | Type I;<br>Type II, Class B;<br>Type III | Type IV | Type VH        |
|------------------------------------|---------------|---------------------|------------------------------------------|---------|----------------|
| <b>Nordic Abrasion,<br/>% max.</b> | ATM 312       | -                   | -                                        | -       | 8 <sup>a</sup> |

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 |
| <b>1 inch</b>   | 100       | -       | -        | -       | -       |
| <b>3/4 inch</b> | 80-90     | 100     | -        | -       | 100     |
| <b>1/2 inch</b> | 60-84     | 77-99   | 100      | 100     | 65-90   |
| <b>3/8 inch</b> | 48-78     | 68-88   | 80-90    | 80-95   | 55-80   |
| <b>No. 4</b>    | 28-63     | 48-68   | 44-81    | 55-70   | 40-60   |
| <b>No. 8</b>    | 14-55     | 33-53   | 26-70    | 35-50   | ≤ 45    |
| <b>No. 16</b>   | 9-44      | 20-40   | 16-59    | 20-40   | ≤ 35    |

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| SIEVE   | GRADATION |         |          |         |                     |
|---------|-----------|---------|----------|---------|---------------------|
|         | Type I    | Type II | Type III | Type IV | Type V <sup>H</sup> |
| 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                 |

C703.1-22.0501

#### 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 |

Add the following:

4. Type D. Usable excavation consisting of sand, gravel, rock, or combinations thereof containing no muck, peat, frozen material, roots, sod, or other deleterious matter and is compactible under the provisions of Subsection 303-3.04. Meet the following gradation as tested by ATM 304:

| <u>Sieve</u> | <u>Percent Passing by Weight</u>                            |
|--------------|-------------------------------------------------------------|
| No. 200      | 0-15%, determined on the minus 3-inch portion of the sample |

C703.1-22.0501

#### 703-2.10 POROUS BACKFILL MATERIAL.

Add the following to the end of the paragraph:

Use Gradation A unless otherwise specified.

HSM20.33-21.1231

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

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

| <b>SIEVE</b> | <b>PERCENT PASSING BY<br/>WEIGHT</b> |
|--------------|--------------------------------------|
| 3-inch       | 100                                  |
| 3/4-inch     | 75-100                               |
| No. 4        | 20-55                                |
| No. 200      | 0-6                                  |

Replace Subsection 703-2.16 with the following:

**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.

**C703.1-22.0501**

**SECTION 712  
MISCELLANEOUS**

**712-2.08 GLASS BEADS.**

Replace the 2<sup>nd</sup> sentence with the following:

Glass Beads shall contain no more than 200 ppm of lead or 200 ppm of arsenic when tested in accordance with EPA testing methods 3052, 6020B, or 6020C.

**HSM20.35-21.1231**

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.

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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).

C724-20.1130

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**

| <b>Soil pH</b> | <b>Limestone, tons/acre</b> |
|----------------|-----------------------------|
| Above 6.0      | 0                           |
| 5.0-6.0        | 1.5                         |
| Below 5.0      | 3.0                         |

C726-20.0101-1

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Replace Section 727 with the following:

## **SECTION 727 SOIL STABILIZATION MATERIAL**

**727-2.00 GENERAL.** Free of restricted and prohibited noxious weeds (11 AAC 34), seeds, chemical printing ink, germination and growth inhibitors, herbicide residue, chlorine bleach, (except where specified: rock, metal, plastics) and other deleterious materials and not harmful to plants, animals and aquatic life. Wood cellulose "paper" fiber, wood chips, sawdust, and hay are not permitted as stand-alone stabilization materials.

**727-2.01 MULCH.** Flexible blanket/covering, temporary degradable (bio/photo) form of erosion control. Use one of the following:

**Dry Erosion Control, Stabilization Products.** Hand applied or spread with mulch blower equipment.

1. Straw. Use straw, in an air-dried condition, from oats, wheat, rye, barley, or other approved grain crops that are free from noxious weeds, seeds, mold, or other materials detrimental to plant life. Straw material shall be certified weed-free straw using North American Invasive Species Management Association (NAISMA) Standards. In-lieu of certified weed-free straw provide documentation that the material is steam or heat treated to kill seeds or provide U.S. or state's department of agriculture laboratory test reports, dated within 90 days prior to the date of application showing that there are no viable seeds in the straw.
2. Shredded Bark Mulch. Shredded bark and wood with the following characteristics:
  - a. Not containing resin, tannin, or other compounds in quantities harmful to plant life.
  - b. Maximum length of individual pieces is 2 inches with 75% passing through a 1 inch sieve.
  - c. Will form a uniform ground cover/mat, have moisture absorption, retention, and percolation properties, not be susceptible to spreading by wind or rain providing a good growth medium.
  - d. May contain up to 50% shredded wood material.
  - e. Shredded wood material aged 1 year minimum prior to use.

**Hydraulic Erosion Control Products (HECPs)** Applied hydraulically.

A fiber mulch matrix: biodegradable and composed of wood, straw, coconut and other fibers natural and man-made. When applied, create a continuous, porous, absorbent high water holding, flexible blanket/mat/mulch/covering making intimate contact with, and adhering to sloped soil surface; permitting water infiltration; resists erosion and promotes rapid germination and accelerated plant growth. The fibers may be thermally processed, and cross-linked with a hydro-colloidal or linear anionic tackifier (curing period 24-48 hours) or mechanically-bonded (no curing period). When agitated in slurry tanks with

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water the fibers will become uniformly suspended, without clumping to form homogeneous slurry.

The HECPs shall be delivered premixed by the manufacturer. The HECP will contain only the materials provided in the sealed containers from the manufacturer. No added components are permitted after the manufacturer seals the product container, before application, during application or otherwise. Submit documentation dated within 3 years of application, from an independent accredited laboratory as approved by the Engineer, showing that the product's testing performance meets the requirements for the slope(s) to be protected on the project, according to the National Transportation Product Evaluation Program (NTPEP), Erosion Control Technology Council (ECTC) and or the Texas DOT/Texas Transportation Institute (TTI) Laboratory.

If the HECP contains cotton or straw provide documentation that the material is certified weed free using NAISMA Standards. In-lieu of certified weed-free straw, provide documentation that the material is steam or heat treated to kill seeds or provide U.S. or state's department of agriculture laboratory test reports, dated within 90 days prior to the date of application showing that there are no viable seeds in the straw.

The HECP shall contain a dye to facilitate placement and inspection of the material.

1. Wood Strand, Fiber.

A blend of angular, loose, long thin wood pieces with a high length to width ratio and that are frayed. Minimum 95% of strands between 2 inches and 10 inches, at least 50% of the length shall have a width thickness between 1/16 and 1/8 inch. No single strand shall have a width or thickness greater than 1/2 inch. Processed wood fiber with the following characteristics:

- a. Will remain in uniform suspension in water under agitation and will blend with grass seed, fertilizer and other additives to form homogeneous slurry.
- b. Will form a blotter-like uniform ground cover on application, have moisture absorption, retention and percolation properties, the ability to cover, and hold grass seed in contact with soil, and not create a hard crust upon drying providing a good growth medium.

2. Dried Peat Moss. Partially decomposed fibrous or cellular stems and leaves of any of several species of Sphagnum mosses with the following characteristics:

- a. Chopped or shredded to allow distribution through normal hydraulic type seeding equipment and capable of being suspended in water to form part of a homogeneous slurry.
- b. Free from woody substances and mineral matter such as sulfur or iron and with a pH value of between 4.0 and 6.5.
- c. Furnished in an air dry condition and containing less than 35% moisture by weight. Have a water holding capacity of not less than 800% by weight on an oven dry basis.

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3. Fiber Matrix (FM) Mulch - Types.
  - a. Stabilized Mulch Matrices (SMMs)
  - b. Bonded Fiber Matrices (BFMs)
  - c. Mechanical Bonded Fiber Matrix (MBFM)
  - d. Polymer Stabilized Fiber Matrix (PSFM)
  - e. Fiber Reinforced Matrices (FRMs)
    - Flexible Growth Medium (FGM)
    - Extended-Term Flexible Growth Medium (ET-FGM)

**727-2.02 MATTING.** Fiber mulches, mulch matrices, nets and turf reinforcement mats manufactured from wood fibers, straw, jute, coir, polyolefins, PVC, nylon and others creating dimensionally stable nets, meshes, geotextiles and blankets; creating a continuous, porous, absorbent, flexible blanket/mat/mulch/covering making intimate contact with and adhering to sloped soil surface, resisting erosion and promoting rapid germination and accelerated plant growth.

**Rolled Erosion Control Products (RECPs)** (Temporary Degradable and Permanent Erosion Control)

Use RECPs that bear the Quality and Date Oversight and Review (QDOR) Seal from the ECTC. Independent test results from the NTPEP, that the mulch, when tested according to ASTM 6459 Standard Test Method for Determination of Rolled Erosion Control Products (RECP), Performance in Protecting Hillslopes from Rainfall-Induced Erosion, meets the performance requirement using the Revised Universal Soil Loss Equation (RUSL).

Functional Longevity.

1. Temporary Degradable.
  - a. Duration.
    - 1) Short-Term RECPs. (RECPs 3 - 12 months)  
C Factor = .15 maximum  
Test Soil Type = Sandy Loam  
(National Resources Conservation Service (NCRS) Soil Texture Triangle)
    - 2) Moderate (Extended) -Term RECPs. (RECPs 24 months)  
C Factor = .05 maximum  
Test Soil Type = Sandy Loam (NCRS Soil Texture Triangle)
    - 3) Long-Term RECPs. (RECPs 36 months)  
C Factor = .01 maximum  
Test Soil Type = Sandy Loam (NCRS Soil Texture Triangle)

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b. Product types.

- 1) Mulch-Control Nets (MCNs). Planar woven natural fiber or extruded geosynthetic mesh used to anchor loose fiber matting/mulches.
- 2) Erosion Control Blankets (ECBs). Processed natural and/or polymer fibers, yarns or twines mechanically, structurally, or chemically bound together to form a continuous matrix with a minimum weight of 8 oz/yd<sup>2</sup> and a limiting shear stress of 0.45 lb/ft<sup>2</sup>.
- 3) Netless. Fibers mechanically interlocked and/or chemically adhered together.
- 4) Single-net and Double-net. Fibers mechanically bound together by single or double netting.
- 5) Open Weave Textiles (OWTs). Fibers woven into a continuous matrix.

c. Materials.

- 1) Burlap. Standard weave with a weight of 3.5 to 10 oz/yd<sup>2</sup>.
- 2) Jute Mesh Fabric. Cloth of a uniform, open, plain weave of undyed and unbleached single jute yarn. Use yarn that is loosely twisted and not varying in thickness more than one-half its normal diameter. Furnish jute mesh in rolled strips meeting the following requirements:
  - a) Width: 45 to 48 inches,  $\pm 1$  inch
  - b) 78 warp-ends per width of cloth (minimum)
  - c) 41 weft-ends per yard (minimum)
  - d) Weight: 20 ounces per linear yard,  $\pm 5\%$
- 3) Woven Paper or Sisal Mesh Netting. Woven from twisted yarns available in rolls 45 to 48 inches wide. Mesh may vary from closed to open weave, ranging from 1/8 to 1/4 inch openings. Shrinkage after wetting may not exceed 20% of the surface area.
- 4) Knitted Straw Mat. Commercially manufactured ECB. Use photodegradable netting and biodegradable thread. Use straw, in an air-dried condition, from oats, wheat, rye, barley, or other approved grain crops that are certified weed free of prohibited and restricted noxious weed seed and quarantined pests, according to Alaska Administrative Code, Title 11, Chapter 34 (11 AAC 34), and in conjunction with North American Invasive Species Management Association (NAISMA) standards, and free of mold, or other objectionable materials detrimental to plant life. When straw or straw products certified according to 11 AAC 34 are not available, use non-certified products manufactured within Alaska before certified products manufactured in another state, country, or territory. Non-certified products manufactured in Alaska In-

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lieu of certified weed-free straw, provide documentation that the material is steam or heat treated to kill seeds or provide U.S. or state's department of agriculture laboratory test reports, dated within 90 days prior to the date of application showing that there are no viable seeds in the straw. Non-certified straw or straw products manufactured in another state, country, or territory shall not be used. ECB may contain coconut or fiber to reinforce the straw.

- 5) Woven/Curled Wood blanket. Machine produced mat of curled wood shavings with a minimum of 80% 6-inch or longer fibers, with consistent thickness and the fibers evenly distributed over the entire area of the blanket. Smolder resistant without the use of chemical additives. Cover the top side of the blanket with biodegradable extruded plastic mesh.
- 6) Coconut (Coir Fiber). Machine produced mat, ECB of consistent thickness and coir fiber evenly distributed over the area of the mat. Use bio/photo degradable netting and thread.

## 2. Permanent.

### a. Product Types and Materials.

- 1) Turf Reinforcement Mats (TRMs). A rolled erosion control product composed of non-degradable synthetic fibers, filaments, nets, wire mesh, and/or other elements, processed into a permanent, three-dimensional matrix of sufficient thickness with a minimum weight of 8 oz/yd<sup>2</sup> and a minimum limiting shear stress of 1.5 lb/ft<sup>2</sup>. TRMs (may be supplemented with degradable components) shall impart immediate erosion protection, enhance vegetation establishment during and after maturation and permanent vegetation reinforcement providing long-term functionality.

**727-2.03 SEDIMENT RETENTION FIBER ROLLS (SRFRs).** Fiber rolls also referred to as wattles. Manufacture of photodegradable or biodegradable fabric netting without preservative treatment, evenly woven, free of crusted material, cuts, and tears. Manufacture stakes of photodegradable or biodegradable material (wood stakes, except as approved by the Engineer).

### 1. Filter Sock (Wattle)

- a. Fabric netting.
- b. Filled with wood fiber, straw, flax, rice, coconut fiber material.
- c. Minimum diameter 5 inches.

### 2. Compost Sock.

- a. Extra Heavy weight fabric netting with a minimum strand width of 5 mils.
- b. Filled with coarse compost.
- c. Minimum diameter 8 inches.

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3. Coir Log.
  - a. Woven wrap bristle coir twine netting.
  - b. Filled with 100% coconut (coir) fiber uniformly compacted.
  - c. Segments maximum length 20 foot, diameter as suited to the application and a density of 7 lbs/pcf or greater.
  - d. Coir twine strength equal to 80 lb minimum weaved to a 2 inch x 2 inch opening pattern.
  - e. Ties made of hemp rope by 1/4 inch diameter.

**727-2.04 COMPOST.** Suitable for serving as a soil amendment or an erosion control material. Sanitized, mature compost meeting local, state, and Federal quality requirements tested and certified by the U.S. Composting Council (USCC) under the Seal of Testing Assurance (STA) Program. Biosolids compost must meet the Standards for Class A biosolids outlined in 40 Code of Federal Regulations (CFR) Part 503. Additionally, meet the requirements of the AASHTO specifications:

1. Compost Blankets. Standard Practice for Compost for Erosion/Sediment Control (Compost Blankets) R 52.
2. Compost Filter Berms and Filter Socks. Standard Practice for Compost for Erosion/Sediment Control (Filter Berms and Filter socks) R 51.

**727-2.05 TACKIFIER.** Tackifier, viscous overspray, generally composed of dry powered vegetable gums derived from guar gum, psyllium and sodium alginase; asphaltic emulsions; petroleum distillates; co-polymer emulsions; and lignosulfonates and used to anchor soil, compost, seed, the mulch fibers to one another, and the ground. Contain no growth or germination inhibiting materials nor significantly reduce infiltration rates. Tackifier shall hydrate in water and readily blend with other slurry material. Tackifier options include:

1. Type A. Organic tackifier with certification of plant sources; or
2. Type B. Synthetic tackifier with certification confirming product is not harmful to plants, animals, or aquatic life.

**727-2.06 POLYACRYLAMIDE (PAM).** Use as a tie-down for soil, compost, seed and as a flocculent. Polyacrylamide (PAM) products shall meet the requirements of American National Standards Institute (ANSI)/National Sanitation Foundation International (NSF) Standard 60 for drinking water treatment, be anionic (not cationic), linear and not cross-linked with an average molecular weight greater than 5 Mg/mole, minimum 30 percent charge density; contain at least 80% active ingredients and a moisture content not exceeding 10% by weight.

Deliver PAM in a dry granular powder or liquid form.

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### **727-2.07 GEOTEXTILE-ENCASED CHECK DAM AND SEDIMENT BARRIER.**

Urethane foam core encased in geotextile material (silt fence material Section 633), minimum 8 inches height by minimum base width of 16 inches by minimum 7 foot length. Overhang the geotextile 6 inch minimum each end with apron type ties by 24 inches each side of the foam core.

### **727-2.08 SANDBAG.**

1. Sandbag Sack Fabric. Fabric shall be a nonwoven, needle punched design meeting the Minimum Average Roll Values (MARV) verified in accordance with ASTM D4759.
2. Seam Thread. Similar durability to the sandbag sack fabric.
3. Sandbag Fill Material.
  - a. Selected Material 703-2.07 Type B
4. Cinch Ties. Plastic ties or equivalent tie recommended by the sandbag manufacturer.

### **727-2.09 MANUFACTURED INLET PROTECTION SYSTEM.**

1. Manufacturers:
  - a. Ultra Tech International – Ultra-DrainGuard
  - b. Bowhead Environmental and Safety - StreamGuard Exert II Sediment Insert
  - c. Enpac - Catch Basin Insert, Oil and Sediment or
  - d. Approved equal.

**727-2.10 CLEAR PLASTIC COVERING.** A clear plastic covering meeting the requirements of the National Institute of Standards and Technology (NIST) voluntary Product Standard PS 17 - 69 for polyethylene sheeting having a minimum thickness of 6 mils.

**727-2.11 STAPLES.** U-shaped staples for anchoring matting, approximately 6 inches long and 1 inch wide. Machine-made: No. 11 gage or heavier steel wire. Hand-made: 12-inch lengths of No. 9 gage or heavier steel wire.

C727-12.0508-2

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## 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.

**C730.1-04.0622**

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

### SPECIAL PROVISIONS

Chena River SRA: Upper Stiles Creek  
Shooting Range Improvements  
Project No. 70011-1

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

## SPECIAL PROVISIONS

Chena River SRA: Upper Stiles Creek  
Shooting Range Improvements  
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(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):

| <b>Manufacturer</b>        | <b>Model</b> | <b>Type</b>                                                          | <b>Contact</b>     |
|----------------------------|--------------|----------------------------------------------------------------------|--------------------|
| 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.

C730.2-17.1222



# APPENDIX A

## PERMITS

| PERMIT DESCRIPTION                                            | ISSUE DATE | EXPIRE DATE |
|---------------------------------------------------------------|------------|-------------|
| State Historic Preservation Officer Review                    | 4/3/2023   | N/A         |
| U.S Army Corps of Engineers<br>NWP42: Recreational Facilities | 7/31/2025  | 3/14/2026   |
| FNSB Floodplain Development Permit                            | 11/12/2025 | N/A         |



**National Historic Preservation Act Section 106 Review of Project****Cultural Resources (CR) Staff Section 106 Review:****Date Request Received:** March 29, 2023**Project Name:** Stiles Creek Shooting Range Improvements**CR Project Number:** 2023-008**CR Staff Reviewer:** Jake Adams, Archaeologist**CR Staff Notes:** Describe salient points of project description and any other pertinent information

This project will improve the Stiles Creek Shooting range up to NRA guidelines by expanding the footprint of the existing range, adding additional shooting lanes, constructing a roof structure, and increasing the parking area. This area is highly disturbed and is next to a wetland area and pond that limits the expansion to ~40 feet. The end berm/hillside serves as the backdrop for the range. There is one known site in the APE-the Chena to Fairbanks winter trail. Eligibility on this site is unclear as it is stated on the site card that it was determined not eligible for the NRHP with SHPO concurrence in 2017; however, it mentions that the determination of eligibility was pending review by the Keeper of the NRHP as of 2017. I reached out to SHPO about this on 2/1/2023 and received no response other than that the other two sections of the trail are listed as not eligible so there may be an error in the database. The short portion of the site that goes through the APE is already in a heavily disturbed area.

**Type of Review:** Literature/Archival**CR Review Results:**

Based on the above narrative this project has a finding of *no historic properties affected* per 36 CFR 800.4 (d)(1).

**Other Instructions:**

NHPA Section 106 review is complete.

**Section 106 Finding:** No Historic Properties Affected**Regional Historic Preservation Officer Use Only:****RHPO Comments:****Section 106 Finding Approved:**

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Jacob S. Adams  
Archaeologist

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Date





DEPARTMENT OF THE ARMY  
ALASKA DISTRICT, U.S. ARMY CORPS OF ENGINEERS  
REGULATORY DIVISION  
P.O. BOX 6898  
JBER, AK 99506-0898

June 26, 2026

Regulatory Division  
POA-2022-00294

Alaska Department of Natural Resources  
Division of Natural Resources  
Division of Parks and Outdoor Recreation  
Attention: Mr. Chester Fehrmann  
550 W 7th Avenue, Suite 1340  
Anchorage, AK 99507

Dear Mr. Fehrmann:

This letter is in response to your May 27, 2026 reverification request for a Department of the Army (DA) permit, to discharge 2,456 cubic yards of fill into 0.177-acres of wetlands in order to improve an existing public shooting range facility within the Chena River State Recreation Area. It has been assigned file number POA-2022-00294, Stiles Creek, which should be referred to in all future correspondence with this office. The project site is located approximately 36 miles east of Fairbanks within Sections 13, 14, 23, 24, Township 1 North, Range 6 East, at milepost 36.4 on Chena Hot Springs Road, Latitude 64.908140° North, Longitude -146.453781° West, Fairbanks North Star Borough, Alaska.

DA authorization is necessary because your project will involve placement of dredged and/or fill material into waters of the U.S. under our regulatory jurisdiction.

Based upon the information and plans you provided, we hereby verify that the work described above will be performed in accordance with the enclosed plan (sheets 1-3), dated 7/29/2025, is authorized by Nationwide Permit (NWP) No. 42, Recreational Facilities. Enclosed is a copy of the NWP No. 42, as well as the Regional and General Conditions. These documents are also available on our website at <https://www.poa.usace.army.mil/Missions/Regulatory/Types-of-Permits/Nationwide-Permits/>. The following Regional Conditions apply to your project: You must comply with all terms and conditions associated with NWP No. 42, as well as with the special conditions listed below:

**1. Reporting Address:** The Permittee shall submit all reports, notifications, documentation and correspondence required by the general and special conditions of this permit to the following address:

- a) For standard mail: U.S. Army Corps of Engineers, Regulatory Division, 1046 Marks Road, Fort Wainwright, Alaska 99703
- b) For electronic mail regpagemaster@usace.army.mil (not to exceed 10 MB).
- c) The Permittee shall reference this permit number, POA-2022-00294(NW-CF), on all submittals.

**2. Commencement Notification:** Within 10 days from the date of initiating the work authorized by this permit/Within 10 days from the date of initiating the work authorized by this permit for each phase of the authorized project, the Permittee shall provide a written notification of the date of commencement of authorized work to the Corps.

**3. Self-Certification:** Within 60 days of completion of the work authorized by this permit, the Permittee shall complete the attached Self-Certification Statement of Compliance form (Attachment A) and submit it to the Corps (U.S. Army Corps of Engineers, Regulatory Division, 1046 Marks Road, Fort Wainwright, Alaska 99703. In the event that the completed work deviates in any manner from the authorized work, the Permittee shall describe the deviations between the work authorized by this permit and the work as constructed on the Self-Certification Statement of Compliance form. The description of any deviations on the Self-Certification Statement of Compliance form does not constitute approval of any deviations by the Corps.

**4. Erosion Control:** The Permittee shall install erosion control measures along the perimeter of all work areas to prevent the displacement of fill material outside the authorized work area. The erosion control measures shall remain in place and be maintained until all authorized work is completed and the work areas are stabilized. Immediately after completion of the final grading of the land surface, all slopes, land surfaces, and filled areas shall be stabilized using sod, degradable mats, barriers, or a combination of similar stabilizing materials to prevent erosion.

**5. Fill Material:** The Permittee shall use only clean fill material for this project. The fill material shall be free from items such as trash, debris, automotive parts, asphalt, construction materials, concrete blocks with exposed reinforcement bars, and soils contaminated with any toxic substance, in toxic amounts in accordance with Section 307 of the Clean Water Act.

**6. Upland Staging/Disposal:** No stockpiling of fill materials shall occur in wetlands or other waters of the U.S. that do not have DA authorization as shown as detailed on the attached Drawings.

**7. Hydrology maintenance:** Natural drainage patterns shall be maintained using appropriate ditching, culverts, storm drain systems, and other measures to ensure hydrology is not altered.

The permittee shall ensure that the project minimizes alterations to water circulation patterns to the extent practicable. If it is determined by the Corps that the project negatively impacts the hydrology within the wetland, the permittee may be required to take additional measures (i.e. install additional depressed roadbeds, culvert(s), or a similar water conduit) beneath the road to re-establish the hydrology of the area to pre-construction conditions.

**8. Historic properties:** If human remains, historic resources, or archaeological resources are encountered during construction, all ground disturbing activities shall cease in the immediate area and you shall immediately (within one business day of discovery) notify the U.S. Army Corps of Engineers (Corps), Alaska District, Regulatory Office at (907) 753-2712 or Carolyn Farmer at carolyn.h.farmer@usace.army.mil and (561) 785-5634. Upon notification the Corps shall notify the appropriate Tribal Historic Preservation Office (THPO) and State Historic Preservation Office (SHPO). Based on the circumstances of the discovery, equity to all parties, and consideration of the public interest, the Corps may modify, suspend or revoke the permit in accordance with 33 CFR Part 325.7. After such notification, project activities on federal lands shall not resume without written authorization from the Corps. After such notification, project activities on tribal lands shall not resume without written authorization from the SHPO and the Corps.

### **5.3 Regional conditions**

#### **REGIONAL CONDITION D - Site Restoration for Projects with Ground Disturbing Activities**

To prevent erosion, disturbed areas shall be stabilized immediately after construction. Revegetation of the site shall begin as soon as site conditions allow and in the same growing season as the disturbance unless climatic conditions warrant additional time. Additional time must be approved by the Corps. Native vegetation and topsoils removed for project construction shall be stockpiled separately and used for site rehabilitation. Except in areas of topsoil excavation, excavated soils shall be sorted into mineral subsoils and topsoil, and stored separately. Topsoil is defined as the upper, outermost layer of soil, usually the top two (2) to eight (8) inches. The depth of topsoil can be measured as the depth from the surface to the first densely packed layer of soil. When backfilling, topsoil shall be placed as the uppermost layer to provide a seed bed for native species. If topsoil and/or organic materials are not available from the project site for rehabilitation, other locally obtained native materials may be used. Topsoil or organic materials (including seed) other than those that are from the project site or locally obtained may be used only if those materials were identified in the PCN and approved in the NWP verification. Species to be used for seeding and planting shall follow this order of preference: 1) species native to the site; 2) species native to the area; 3) species native to the state.

### **REGIONAL CONDITION E – Delineation of Project Footprint**

Prior to commencement of construction activities within waters of the U.S., the permittee shall clearly identify the permitted limits of disturbance at the project site with highly visible markers (e.g., construction fencing, flagging, silt barriers, etc.). The permittee shall properly maintain such identification until construction is complete and the soils have been stabilized. The permittee is prohibited from conducting any unauthorized Corps-regulated activity outside of the permitted limits of disturbance (as shown on the permit drawings).

### **REGIONAL CONDITION F - Maintenance of Hydrology Patterns**

Natural drainage patterns shall be maintained using appropriate ditching, culverts, storm drain systems and other measures to prevent ponding or drying. Excessive ponding and/or dewatering of areas adjacent to fill areas shall indicate non-compliance with this condition.

### **REGIONAL CONDITION G – Clean Fill Material**

No activity may use unsuitable material (e.g., trash, debris, car bodies, asphalt, etc.). Material used for construction or discharged must be free from toxic pollutants in toxic amounts. Only clean rip rap material, free of exposed rebar, asphalt, plastic, soil, etc., may be used.

Further, please note General Condition 30 requires that you submit a signed certification to us once any work and required mitigation are completed. Enclosed is the form for you to complete and return to our office.

Unless this NWP is modified or revoked, it expires on March 15, 2031. If you commence or are under contract to commence this activity before the date that the NWPs are modified or revoked, you will have twelve (12) months from the date of the modification or revocation of the NWPs to complete the activity under the present terms and conditions of these nationwide permits. It is incumbent upon you to remain informed of the changes to the NWPs.

This permit should not be considered as an approval of the design features of any activity authorized or an implication that such construction is considered adequate for any purpose intended. It does not authorize any damages to private property, invasion of private rights, or any infringement of federal, state, or local laws or regulations.

Please contact me via email at [carolyn.h.farmer@usace.army.mil](mailto:carolyn.h.farmer@usace.army.mil), by mail at the address above, by phone at (561) 785-5634, if you have questions. For more information about the Regulatory Program, please visit our website at [www.poa.usace.army.mil/Missions/Regulatory](http://www.poa.usace.army.mil/Missions/Regulatory).

Sincerely,

A handwritten signature in cursive script, reading "Carolyn Farmer". The ink is a light brown or tan color. The signature is written on a white background.

Carolyn Farmer  
Project Manager

Enclosures

ENCLOSURE



**US Army Corps of Engineers  
Alaska District**

Permit Number: POA-2022-00294

Name of Permittee: Alaska Department of Natural Resources  
Division of Natural Resources  
Division of Parks and Outdoor Recreation

Date of Issuance: June 26, 2026

Upon completion of the activity authorized by this permit and any mitigation required by the permit, sign this certification and return it to Carolyn Farmer at [regpagemaster@usace.army.mil](mailto:regpagemaster@usace.army.mil), or the following address:

U.S. Army Corps of Engineers  
Alaska District  
Regulatory Division  
P.O. Box 6898  
JBER, AK 99506-0898

Please note that your permitted activity is subject to a compliance inspection by a U.S. Army Corps of Engineers representative. If you fail to comply with this permit you are subject to permit suspension, modification, or revocation.

I hereby certify that the work authorized by the above-referenced permit has been completed in accordance with the terms and conditions of the said permit, and required mitigation was completed in accordance with the permit conditions.

\_\_\_\_\_  
Signature of Permittee

\_\_\_\_\_  
Date

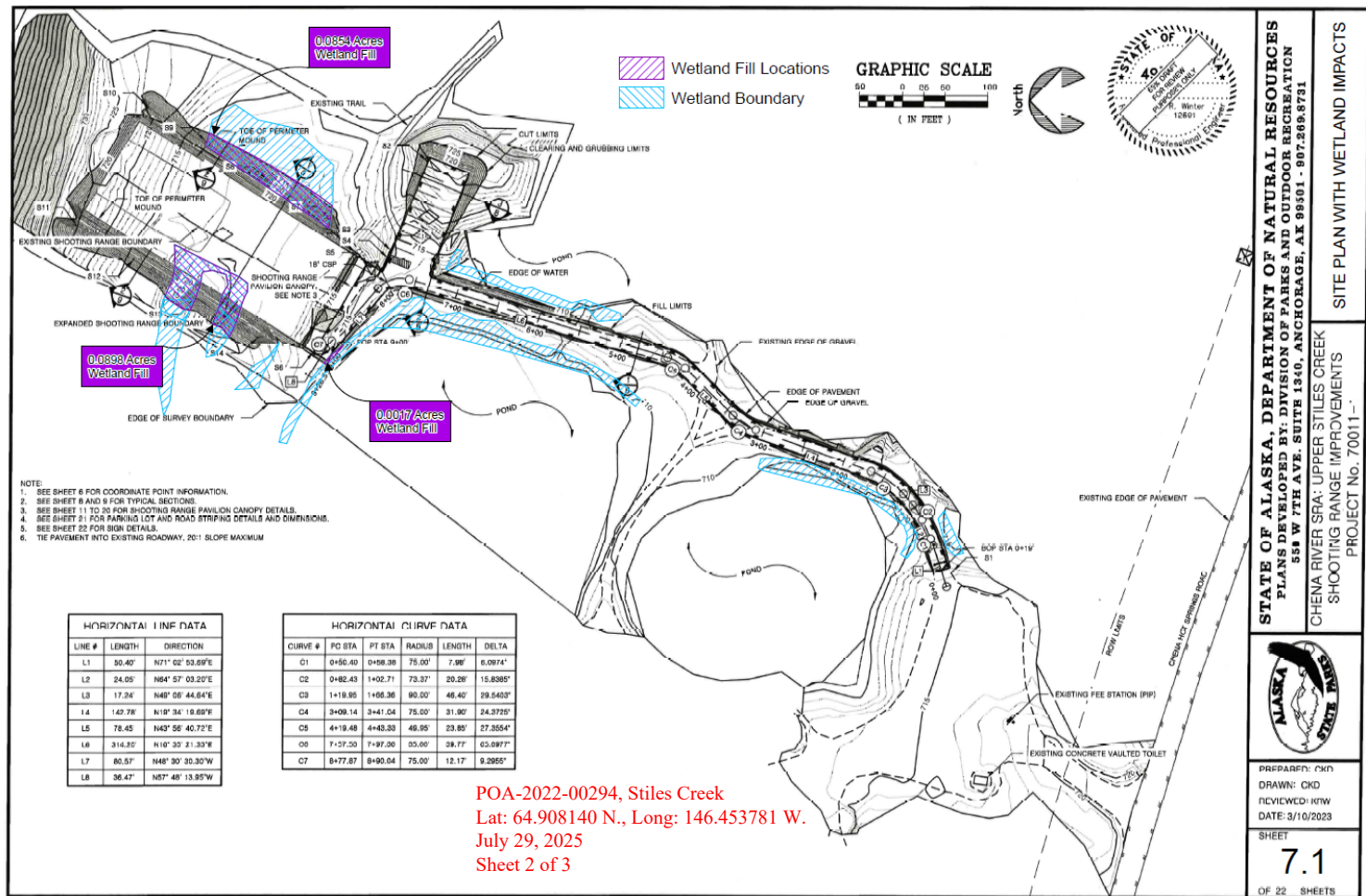


Figure 3. Anticipated Wetland Fill Locations

- Wetland Fill Locations
- Wetland Boundary

0.0854 Acres  
Wetland Fill

0.0898 Acres  
Wetland Fill

0.0017 Acres  
Wetland Fill

IMAGERY WITH WETLAND IMPACTS

## **Nationwide Permit 42 – Recreational Facilities**

Effective Date: March 15, 2026; Expiration Date: March 15, 2031  
(NWP Final Notice, 91 FR 768)

**Nationwide Permit (NWP) 42 - Recreational Facilities.** Discharges of dredged or fill material into non-tidal waters of the United States for the construction or expansion of recreational facilities. Examples of recreational facilities that may be authorized by this NWP include playing fields (e.g., football fields, baseball fields), basketball courts, tennis courts, hiking trails, bike paths, golf courses, ski areas, horse paths, nature centers, and campgrounds (excluding recreational vehicle parks). This NWP also authorizes the construction or expansion of small support facilities, such as maintenance and storage buildings and stables that are directly related to the recreational activity, but it does not authorize the construction of hotels, restaurants, racetracks, stadiums, arenas, or similar facilities.

The discharge must not cause the loss of greater than 1/2-acre of non-tidal waters of the United States. This NWP does not authorize discharges of dredged or fill material into non-tidal wetlands adjacent to tidal waters.

Notification: The permittee must submit a pre-construction notification to the district engineer prior to commencing the activity. (See general condition 32.) (Authority: Section 404)

## **2026 Nationwide Permit General Conditions**

Note: To qualify for NWP authorization, the prospective permittee must comply with the following general conditions, as applicable, in addition to any regional or case-specific conditions imposed by the division engineer or district engineer. Prospective permittees should contact the appropriate Corps district office to determine if regional conditions have been imposed on an NWP. Prospective permittees should also contact the appropriate Corps district office to determine the status of Clean Water Act Section 401 water quality certification and/or Coastal Zone Management Act consistency for an NWP. Every person who may wish to obtain permit authorization under one or more NWPs, or who is currently relying on an existing or prior permit authorization under one or more NWPs, has been and is on notice that all of the provisions of 33 CFR 330.1 through 330.6 apply to every NWP authorization. Note especially 33 CFR 330.5 relating to the modification, suspension, or revocation of any NWP authorization.

1. Navigation. (a) No activity may cause more than a minimal adverse effect on navigation.

(b) Any safety lights and signals prescribed by the U.S. Coast Guard, through regulations or otherwise, must be installed and maintained at the permittee's expense on authorized facilities in navigable waters of the United States.

(c) The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his or her authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

2. Aquatic Life Movements. No activity may substantially disrupt the necessary life cycle movements of those species of aquatic life indigenous to the waterbody, including those species that normally migrate through the area, unless the activity's primary purpose is to impound water. All permanent and temporary crossings of waterbodies shall be suitably culverted, bridged, or otherwise designed and constructed to maintain low flows to sustain the movement of those aquatic species. If a bottomless culvert cannot be used, then the crossing should be designed and constructed to minimize adverse effects to aquatic life movements.

3. Spawning Areas. Activities in spawning areas during spawning seasons must be avoided to the maximum extent practicable. Activities that result in the physical destruction (e.g., through excavation, fill, or downstream smothering by substantial turbidity) of an important spawning area are not authorized.

4. Migratory Bird Breeding Areas. Activities in waters of the United States that serve as breeding areas for migratory birds must be avoided to the maximum extent practicable.

5. Shellfish Beds. No activity may occur in areas of concentrated shellfish populations, unless the activity is directly related to a shellfish harvesting activity authorized by NWP 4 and 48, or is a shellfish seeding or habitat restoration activity authorized by NWP 27.

6. Suitable Material. No activity may use unsuitable material (e.g., trash, debris, car bodies, asphalt, etc.). Material used for construction or discharged must be free from toxic pollutants in toxic amounts (see section 307 of the Clean Water Act).

7. Water Supply Intakes. No activity may occur in the proximity of a public water supply intake, except where the activity is for the repair or improvement of public water supply intake structures or adjacent bank stabilization.

8. Adverse Effects From Impoundments. If the activity creates an impoundment of water, adverse effects to the aquatic system due to accelerating the passage of water, and/or restricting its flow must be minimized to the maximum extent practicable.

9. Management of Water Flows. To the maximum extent practicable, the pre-construction course, condition, capacity, and location of open waters must be maintained for each activity, including stream channelization, storm water management activities, and temporary and permanent road crossings, except as provided below. The activity must be constructed to withstand expected high flows, including tidal flows. The activity must not restrict or impede the passage of normal or high flows, including tidal flows, unless the primary purpose of the activity is to impound water or manage high flows. The activity may alter the pre-construction course, condition, capacity, and location of open waters if it benefits the aquatic environment (e.g., stream restoration or relocation activities).

10. Fills Within 100-Year Floodplains. The activity must comply with applicable FEMA-approved state or local floodplain management requirements.

11. Equipment. Heavy equipment working in wetlands or mudflats must be placed on mats, or other measures must be taken to minimize soil disturbance. If mats are used to minimize soil disturbance, the affected areas must be returned to pre-construction elevations, and revegetated as appropriate. In circumstances where the use of mats has caused significant soil compaction, efforts using techniques (e.g., soil reaeration techniques) to break up the compaction should be employed to return the soil to a pre-construction state prior to returning to pre-construction elevations.

12. Soil Erosion and Sediment Controls. Appropriate soil erosion and sediment controls must be used and maintained in effective operating condition during construction, and all exposed soil and other fills, as well as any work below the ordinary high water mark or high tide line, must be permanently stabilized at the earliest practicable date. Permittees are encouraged to perform work within waters of the United States during periods of low-flow or no-flow, or during low tides.

13. Removal of Temporary Structures and Fills. Temporary structures must be removed, to the maximum extent practicable, after their use has been discontinued. Temporary fills must be removed in their entirety and the affected areas returned to pre-construction elevations. The affected areas must be revegetated, as appropriate.

14. Proper Maintenance. Any authorized structure or fill shall be properly maintained, including maintenance to ensure public safety and compliance with applicable NWP general conditions, as well as any activity-specific conditions added by the district engineer to an NWP authorization.

15. Single and Complete Project. The activity must be a single and complete project. The same NWP cannot be used more than once for the same single and complete project.

16. Wild and Scenic Rivers. (a) No NWP activity may occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a “study river” for possible inclusion in the system while the river is in an official study status, unless the appropriate Federal agency with direct management responsibility for such river has determined in writing that the proposed activity will not adversely affect the Wild and Scenic River designation or study status.

(b) If a proposed NWP activity will occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a “study river” for possible inclusion in the system while the river is in an official study status, the permittee must submit a pre-construction notification (see general condition 32). The district engineer will coordinate the PCN with the Federal agency with direct management responsibility for that river. Permittees shall not begin the NWP activity until notified by the district engineer that the Federal agency with direct management responsibility for that river has determined in writing that the proposed NWP activity will not adversely affect the Wild and Scenic River designation or study status.

(c) Information on Wild and Scenic Rivers may be obtained from the appropriate Federal land management agency responsible for the designated Wild and Scenic River or study river (e.g., National Park Service, U.S. Forest Service, Bureau of Land Management, U.S. Fish and Wildlife Service). Information on these rivers is also available at: <http://www.rivers.gov/>.

17. Tribal Rights. No activity or its operation may impair reserved tribal rights, including, but not limited to, reserved water rights and treaty fishing and hunting rights.

18. Endangered Species. (a) No activity is authorized under any NWP which is likely to directly or indirectly jeopardize the continued existence of a threatened or endangered species or a species proposed for such designation, as identified under the federal Endangered Species Act (ESA), or which will directly or indirectly destroy or adversely modify designated critical habitat or critical habitat proposed for such designation. No activity is authorized under any NWP which “may affect” a listed species or critical habitat, unless ESA section 7 consultation addressing the consequences of the proposed activity on listed species or critical habitat has been completed. See 50 CFR 402.02 for the definition of “effects of the action” for the purposes of ESA section 7 consultation.

(b) Federal agencies should follow their own procedures for complying with the requirements of the ESA (see 33 CFR 330.4(f)(1)). If pre-construction notification is required for the proposed activity, the federal permittee must provide the district

engineer with the appropriate documentation to demonstrate compliance with those requirements. The district engineer will verify that the appropriate documentation has been submitted. If the appropriate documentation has not been submitted, additional ESA section 7 consultation may be necessary for the activity and the respective federal agency would be responsible for fulfilling its obligation under section 7 of the ESA.

(c) Non-federal permittees must submit a pre-construction notification to the district engineer if any listed species (or species proposed for listing) or designated critical habitat (or critical habitat proposed such designation) might be affected or is in the vicinity of the activity, or if the activity is located in designated critical habitat or critical habitat proposed for such designation, and shall not begin work on the activity until notified by the district engineer that the requirements of the ESA have been satisfied and that the activity is authorized. For activities that might affect federally-listed endangered or threatened species (or species proposed for listing) or designated critical habitat (or critical habitat proposed for such designation), the pre-construction notification must include the name(s) of the endangered or threatened species (or species proposed for listing) that might be affected by the proposed activity or that utilize the designated critical habitat (or critical habitat proposed for such designation) that might be affected by the proposed activity. The district engineer will determine whether the proposed activity “may affect” or will have “no effect” to listed species and designated critical habitat and will notify the non-federal applicant of the Corps’ determination within 45 days of receipt of a complete pre-construction notification. For activities where the non-federal applicant has identified listed species (or species proposed for listing) or designated critical habitat (or critical habitat proposed for such designation) that might be affected or is in the vicinity of the activity, and has so notified the Corps, the applicant shall not begin work until the Corps has provided notification that the proposed activity will have “no effect” on listed species (or species proposed for listing or designated critical habitat (or critical habitat proposed for such designation), or until ESA section 7 consultation or conference has been completed. If the non-federal applicant has not heard back from the Corps within 45 days, the applicant must still wait for notification from the Corps.

(d) As a result of formal or informal consultation or conference with the FWS or NMFS the district engineer may add species-specific permit conditions to the NWP.

(e) Authorization of an activity by an NWP does not authorize the “take” of a threatened or endangered species as defined under the ESA. In the absence of separate authorization (e.g., an ESA Section 10 Permit, a Biological Opinion with “incidental take” provisions, etc.) from the FWS or the NMFS, the Endangered Species Act prohibits any person subject to the jurisdiction of the United States to take a listed species, where “take” means to harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct. The word “harm” in the definition of “take” means an act which actually kills or injures wildlife. Such an act may include significant habitat modification or degradation where it actually kills or injures wildlife by significantly impairing essential behavioral patterns, including breeding, feeding or sheltering.

(f) If the non-federal permittee has a valid ESA section 10(a)(1)(B) incidental take permit with an approved Habitat Conservation Plan for a project or a group of projects that includes the proposed NWP activity, the non-federal permittee should provide a copy of that ESA section 10(a)(1)(B) permit with the PCN required by paragraph (c) of this general condition. The district engineer will coordinate with the agency that issued the ESA section 10(a)(1)(B) permit to determine whether the proposed NWP activity and the associated incidental take were considered in the internal ESA section 7 consultation conducted for the ESA section 10(a)(1)(B) permit. If that coordination results in concurrence from the agency that the proposed NWP activity and the associated incidental take were considered in the internal ESA section 7 consultation for the ESA section 10(a)(1)(B) permit, the district engineer does not need to conduct a separate ESA section 7 consultation for the proposed NWP activity. The district engineer will notify the non-federal applicant within 45 days of receipt of a complete pre-construction notification whether the ESA section 10(a)(1)(B) permit covers the proposed NWP activity or whether additional ESA section 7 consultation is required.

(g) Information on the location of threatened and endangered species and their critical habitat can be obtained directly from the offices of the FWS and NMFS or their web pages at <http://www.fws.gov/> or <http://www.fws.gov/ipac> and <http://www.nmfs.noaa.gov/pr/species/esa/> respectively.

19. Migratory Birds and Bald and Golden Eagles. The permittee is responsible for ensuring that an action authorized by an NWP complies with the Migratory Bird Treaty Act and the Bald and Golden Eagle Protection Act. The permittee is responsible for contacting the appropriate local office of the U.S. Fish and Wildlife Service to determine what measures, if any, are necessary or appropriate to reduce adverse effects to migratory birds or eagles, including whether "incidental take" permits are necessary and available under the Migratory Bird Treaty Act or Bald and Golden Eagle Protection Act for a particular activity.

20. Historic Properties. (a) No activity is authorized under any NWP which may have the potential to cause effects on properties listed, or eligible for listing, in the National Register of Historic Places until the requirements of Section 106 of the National Historic Preservation Act (NHPA) have been satisfied.

(b) Federal permittees should follow their own procedures for complying with the requirements of section 106 of the National Historic Preservation Act (see 33 CFR 330.4(g)(1)). If pre-construction notification is required for the proposed NWP activity, the federal permittee must provide the district engineer with the appropriate documentation to demonstrate compliance with those requirements. The district engineer will verify that the appropriate documentation has been submitted. If the appropriate documentation is not submitted, then additional consultation under section 106 may be necessary. The respective federal agency is responsible for fulfilling its obligation to comply with section 106.

(c) Non-federal permittees must submit a pre-construction notification to the district engineer if the NWP activity might have the potential to cause effects on any historic properties listed on, determined to be eligible for listing on, or potentially eligible for listing on the National Register of Historic Places, including previously unidentified

properties. For such activities, the pre-construction notification must state which historic properties might have the potential to be affected by the proposed NWP activity or include a vicinity map indicating the location of the historic properties or the potential for the presence of historic properties. Assistance regarding information on the location of, or potential for, the presence of historic properties can be sought from the State Historic Preservation Officer, Tribal Historic Preservation Officer, or designated tribal representative, as appropriate, and the National Register of Historic Places (see 33 CFR 330.4(g)). When reviewing pre-construction notifications, district engineers will comply with the current procedures for addressing the requirements of section 106 of the National Historic Preservation Act. The district engineer shall make a reasonable and good faith effort to carry out appropriate identification efforts commensurate with potential impacts, which may include background research, consultation, oral history interviews, sample field investigation, and/or field survey. Based on the information submitted in the PCN and these identification efforts, the district engineer shall determine whether the proposed NWP activity has the potential to cause effects on historic properties. Section 106 consultation is not required when the district engineer determines that the activity does not have the potential to cause effects on historic properties (see 36 CFR 800.3(a)). Section 106 consultation is required when the district engineer determines that the activity has the potential to cause effects on historic properties. The district engineer will conduct consultation with consulting parties identified under 36 CFR 800.2(c) when he or she makes any of the following effect determinations for the purposes of section 106 of the NHPA: no historic properties affected, no adverse effect, or adverse effect.

(d) Where the non-federal applicant has identified historic properties on which the proposed NWP activity might have the potential to cause effects and has so notified the Corps, the non-federal applicant shall not begin the activity until notified by the district engineer either that the activity has no potential to cause effects on historic properties or that NHPA section 106 consultation has been completed. For non-federal permittees, the district engineer will notify the prospective permittee within 45 days of receipt of a complete pre-construction notification whether NHPA section 106 consultation is required. If NHPA section 106 consultation is required, the district engineer will notify the non-federal applicant that he or she cannot begin the activity until section 106 consultation is completed. If the non-federal applicant has not heard back from the Corps within 45 days, the applicant must still wait for notification from the Corps.

(e) Prospective permittees should be aware that section 110k of the NHPA (54 U.S.C. 306113) prevents the Corps from granting a permit or other assistance to an applicant who, with intent to avoid the requirements of section 106 of the NHPA, has intentionally significantly adversely affected a historic property to which the permit would relate, or having legal power to prevent it, allowed such significant adverse effect to occur, unless the Corps, after consultation with the Advisory Council on Historic Preservation (ACHP), determines that circumstances justify granting such assistance despite the adverse effect created or permitted by the applicant. If circumstances justify granting the assistance, the Corps is required to notify the ACHP and provide documentation specifying the circumstances, the degree of damage to the integrity of any historic properties affected, and proposed mitigation. This documentation must

include any views obtained from the applicant, SHPO/THPO, appropriate Indian tribes if the undertaking occurs on or affects historic properties on tribal lands or affects properties of interest to those tribes, and other parties known to have a legitimate interest in the impacts to the permitted activity on historic properties.

21. Discovery of Previously Unknown Remains and Artifacts. Permittees that discover any previously unknown historic, cultural or archeological remains and artifacts while accomplishing the activities authorized by NWP, must immediately notify the district engineer of what they have found, and to the maximum extent practicable, avoid construction activities that may affect the remains and artifacts until the required coordination has been completed. The district engineer will initiate the federal, tribal, and state coordination required to determine if the items or remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

22. Designated Critical Resource Waters. Critical resource waters include, NOAA-managed marine sanctuaries and marine monuments, and National Estuarine Research Reserves. The district engineer may designate, after notice and opportunity for public comment, additional waters officially designated by a state as having particular environmental or ecological significance, such as outstanding national resource waters or state natural heritage sites. The district engineer may also designate additional critical resource waters after notice and opportunity for public comment.

(a) Discharges of dredged or fill material into waters of the United States are not authorized by NWPs 7, 12, 14, 16, 17, 21, 29, 31, 35, 39, 40, 42, 43, 44, 49, 50, 51, 52, 57 and 58 for any activity within, or directly affecting, critical resource waters, including wetlands adjacent to such waters.

(b) For NWPs 3, 8, 10, 13, 15, 18, 19, 22, 23, 25, 27, 28, 30, 33, 34, 36, 37, 38, and 54, notification is required in accordance with general condition 32, for any activity proposed by permittees in the designated critical resource waters including wetlands adjacent to those waters. The district engineer may authorize activities under these NWPs only after she or he determines that the impacts to the critical resource waters will be no more than minimal.

23. Mitigation. The district engineer will consider the following factors when determining appropriate and practicable mitigation necessary to ensure that the individual and cumulative adverse environmental effects are no more than minimal:

(a) The activity must be designed and constructed to avoid and minimize adverse effects, both temporary and permanent, to waters of the United States to the maximum extent practicable at the project site (i.e., on site).

(b) Mitigation in all its forms (avoiding, minimizing, rectifying, reducing, or compensating for resource losses) will be required to the extent necessary to ensure that the individual and cumulative adverse environmental effects are no more than minimal.

(c) Compensatory mitigation at a minimum one-for-one ratio will be required for all wetland losses that exceed 1/10-acre and require pre-construction notification, unless the district engineer determines in writing that either some other form of

mitigation would be more environmentally appropriate or the adverse environmental effects of the proposed activity are no more than minimal, and provides an activity-specific waiver of this requirement. For wetland losses of 1/10-acre or less that require pre-construction notification, the district engineer may determine on a case-by-case basis that compensatory mitigation is required to ensure that the activity results in only minimal adverse environmental effects.

(d) Compensatory mitigation at a minimum one-for-one ratio will be required for all losses of stream bed that exceed 3/100-acre and require pre-construction notification, unless the district engineer determines in writing that either some other form of mitigation would be more environmentally appropriate or the adverse environmental effects of the proposed activity are no more than minimal, and provides an activity-specific waiver of this requirement. This compensatory mitigation requirement may be satisfied through the restoration or enhancement of riparian areas next to streams in accordance with paragraph (e) of this general condition. For losses of stream bed of 3/100-acre or less that require pre-construction notification, the district engineer may determine on a case-by-case basis that compensatory mitigation is required to ensure that the activity results in only minimal adverse environmental effects. Compensatory mitigation for losses of streams should be provided, if practicable, through stream rehabilitation, enhancement, or preservation, because streams are difficult-to-replace resources (see 33 CFR 332.3(e)(3)).

(e) Compensatory mitigation plans for NWP activities in or near streams or other open waters will normally include a requirement for the restoration or enhancement, maintenance, and legal protection (e.g., conservation easements) of riparian areas next to open waters. In some cases, the restoration or maintenance/protection of riparian areas may be the only compensatory mitigation required. If restoring riparian areas involves planting vegetation, only native species should be planted. The width of the required riparian area will address documented water quality or aquatic habitat loss concerns. Normally, the riparian area will be 25 to 50 feet wide on each side of the stream, but the district engineer may require slightly wider riparian areas to address documented water quality or habitat loss concerns. If it is not possible to restore or maintain/protect a riparian area on both sides of a stream, or if the waterbody is a lake or coastal waters, then restoring or maintaining/protecting a riparian area along a single bank or shoreline may be sufficient. Where both wetlands and open waters exist on the project site, the district engineer will determine the appropriate compensatory mitigation (e.g., riparian areas and/or wetlands compensation) based on what is best for the aquatic environment on a watershed basis. In cases where riparian areas are determined to be the most appropriate form of minimization or compensatory mitigation, the district engineer may waive or reduce the requirement to provide wetland compensatory mitigation for wetland losses.

(f) Compensatory mitigation projects provided to offset losses of aquatic resources must comply with the applicable provisions of 33 CFR part 332.

(1) The prospective permittee is responsible for proposing an appropriate compensatory mitigation option if compensatory mitigation is necessary to ensure that the activity results in no more than minimal adverse environmental effects. For the

NWPs, the preferred mechanism for providing compensatory mitigation is mitigation bank credits or in-lieu fee program credits (see 33 CFR 332.3(b)(2) and (3)). However, if an appropriate number and type of mitigation bank or in-lieu credits are not available at the time the PCN is submitted to the district engineer, the district engineer may approve the use of permittee-responsible mitigation.

(2) The amount of compensatory mitigation required by the district engineer must be sufficient to ensure that the authorized activity results in no more than minimal individual and cumulative adverse environmental effects (see 33 CFR 330.1(e)(3)). (See also 33 CFR 332.3(f).)

(3) Since the likelihood of success is greater and the impacts to potentially valuable uplands are reduced, aquatic resource restoration should be the first compensatory mitigation option considered for permittee-responsible mitigation.

(4) If permittee-responsible mitigation is the proposed option, the prospective permittee is responsible for submitting a mitigation plan. A conceptual or detailed mitigation plan may be used by the district engineer to make the decision on the NWP verification request, but a final mitigation plan that addresses the applicable requirements of 33 CFR 332.4(c)(2) through (14) must be approved by the district engineer before the permittee begins work in waters of the United States, unless the district engineer determines that prior approval of the final mitigation plan is not practicable or not necessary to ensure timely completion of the required compensatory mitigation (see 33 CFR 332.3(k)(3)). If permittee-responsible mitigation is the proposed option, and the proposed compensatory mitigation site is located on land in which another federal agency holds an easement, the district engineer will coordinate with that federal agency to determine if proposed compensatory mitigation project is compatible with the terms of the easement.

(5) If mitigation bank or in-lieu fee program credits are the proposed option, the mitigation plan needs to address only the baseline conditions at the impact site and the number of credits to be provided (see 33 CFR 332.4(c)(1)(ii)).

(6) Compensatory mitigation requirements (e.g., resource type and amount to be provided as compensatory mitigation, site protection, ecological performance standards, monitoring requirements) may be addressed through conditions added to the NWP authorization, instead of components of a compensatory mitigation plan (see 33 CFR 332.4(c)(1)(ii)).

(g) Compensatory mitigation will not be used to increase the acreage losses allowed by the acreage limits of the NWPs. For example, if an NWP has an acreage limit of 1/2-acre, it cannot be used to authorize any NWP activity resulting in the loss of greater than 1/2-acre of waters of the United States, even if compensatory mitigation is provided that replaces or restores some of the lost waters. However, compensatory mitigation can and should be used, as necessary, to ensure that an NWP activity already meeting the established acreage limits also satisfies the no more than minimal impact requirement for the NWPs.

(h) Permittees may propose the use of mitigation banks, in-lieu fee programs, or permittee-responsible mitigation. When developing a compensatory mitigation proposal, the permittee must consider appropriate and practicable options consistent with the framework at 33 CFR 332.3(b). For activities resulting in the loss of marine or estuarine resources, permittee-responsible mitigation may be environmentally preferable if there are no mitigation banks or in-lieu fee programs in the area that have marine or estuarine credits available for sale or transfer to the permittee. For permittee-responsible mitigation, the special conditions of the NWP verification must clearly indicate the party or parties responsible for the implementation and performance of the compensatory mitigation project, and, if required, its long-term management.

(i) Where certain functions and services of waters of the United States are permanently adversely affected by a regulated activity, such as discharges of dredged or fill material into waters of the United States that will convert a forested or scrub-shrub wetland to a herbaceous wetland in a permanently maintained utility line right-of-way, mitigation may be required to reduce the adverse environmental effects of the activity to the no more than minimal level.

24. Safety of Impoundment Structures. To ensure that all impoundment structures are safely designed, the district engineer may require non-federal applicants to demonstrate that the structures comply with established state or federal, dam safety criteria or have been designed by qualified persons. The district engineer may also require documentation that the design has been independently reviewed by similarly qualified persons, and appropriate modifications made to ensure safety.

25. Water Quality. (a) Where the certifying authority (state, authorized tribe, or EPA, as appropriate) has not previously certified compliance of an NWP with CWA section 401, a CWA section 401 water quality certification for the proposed activity which may result in any discharge from a point source into waters of the United States must be obtained or waived (see 33 CFR 330.4(c)). If the permittee cannot comply with all of the conditions of a water quality certification previously issued by the certifying authority for the issuance of the NWP, then the permittee must obtain a water quality certification or waiver for the proposed activity which may result in any discharge from a point source into waters of the United States in order for the activity to be authorized by an NWP.

(b) If the NWP activity requires pre-construction notification and the certifying authority has not previously certified compliance of an NWP with CWA section 401, the proposed activity which may result in any discharge from a point source into waters of the United States is not authorized by an NWP until water quality certification is obtained or waived. If the certifying authority issues a water quality certification for the proposed discharge into waters of the United States, the permittee must submit a copy of the certification to the district engineer. The discharge into waters of the United States is not authorized by an NWP until the district engineer has notified the permittee that the water quality certification requirement has been satisfied (i.e., by the issuance of a water quality certification or a waiver and completion of the Section 401(a)(2) process).

(c) The district engineer or certifying authority may require additional water quality management measures to ensure that the authorized activity does not result in more than minimal degradation of water quality.

26. Coastal Zone Management. In coastal states where an NWP has not previously received a state coastal zone management consistency concurrence, an individual state coastal zone management consistency concurrence must be obtained, or a presumption of concurrence must occur (see 33 CFR 330.4(d)). If the permittee cannot comply with all of the conditions of a coastal zone management consistency concurrence previously issued by the state, then the permittee must obtain an individual coastal zone management consistency concurrence or presumption of concurrence in order for the activity to be authorized by an NWP. The district engineer or a state may require additional measures to ensure that the authorized activity is consistent with state coastal zone management requirements.

27. Regional and Case-By-Case Conditions. The activity must comply with any regional conditions that may have been added by the division engineer (see 33 CFR 330.4(e)) and with any case specific conditions added by the Corps or by the state, Indian Tribe, or U.S. EPA in its CWA section 401 Water Quality Certification, or by the state in its Coastal Zone Management Act consistency determination.

28. Use of Multiple Nationwide Permits. The use of more than one NWP for a single and complete project is authorized, subject to the following restrictions:

(a) The total acreage loss of waters of the United States for a single and complete project cannot exceed the acreage limit of the NWP with the highest specified acreage limit when multiple NWPs are used to authorize an activity.

(b) If only one of the NWPs used to authorize the single and complete project has a specified acreage limit, the acreage loss of waters of the United States for that single and complete project cannot exceed that specified acreage limit. For example, if a road crossing over tidal waters is constructed under NWP 14 (which has an acreage limit of 1/3 acre in tidal waters), with associated bank stabilization authorized by NWP 13 (which does not have a specified acreage limit), the maximum acreage loss of waters of the United States for the total project cannot exceed 1/3-acre.

(c) If two or more of the NWPs used to authorize the single and complete project have specified acreage limits, the acreage loss of waters of the United States authorized by each of those NWPs cannot exceed the specified acreage limits of each of those NWPs. For example, if a commercial development is constructed under NWP 39 (which has a 1/2-acre limit), and the single and complete project includes the filling of a ditch authorized by NWP 46 (which has a 1-acre limit), the maximum acreage loss of waters of the United States for the construction of the commercial development under NWP 39 cannot exceed 1/2-acre, and the total acreage loss of waters of United States caused by the combination of the NWP 39 and NWP 46 activities cannot exceed 1 acre.

29. Transfer of Nationwide Permit Verifications. If the permittee sells the property associated with a nationwide permit verification, the permittee may transfer the nationwide permit verification to the new owner by submitting a letter to the appropriate

Corps district office to validate the transfer. A copy of the nationwide permit verification must be attached to the letter, and the letter must contain the following statement and signature:

“When the structures or work authorized by this nationwide permit are still in existence at the time the property is transferred, the terms and conditions of this nationwide permit, including any special conditions, will continue to be binding on the new owner(s) of the property. To validate the transfer of this nationwide permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.”

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(Transferee)

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(Date)

30. Compliance Certification. Each permittee who receives an NWP verification letter from the Corps must provide a signed certification documenting completion of the authorized activity and implementation of any required compensatory mitigation. The successful completion of any required permittee-responsible mitigation, including the achievement of ecological performance standards, will be addressed separately by the district engineer. The Corps will provide the permittee the certification document with the NWP verification letter. The certification document will include:

(a) A statement that the authorized activity was done in accordance with the NWP authorization, including any general, regional, or activity-specific conditions;

(b) A statement that the implementation of any required compensatory mitigation was completed in accordance with the permit conditions. If credits from a mitigation bank or in-lieu fee program are used to satisfy the compensatory mitigation requirements, the certification must include the documentation required by 33 CFR 332.3(l)(3) to confirm that the permittee secured the appropriate number and resource type of credits; and

(c) The signature of the permittee certifying the completion of the activity and mitigation.

The completed certification document must be submitted to the district engineer within 30 days of completion of the authorized activity or the implementation of any required compensatory mitigation, whichever occurs later.

31. Activities Affecting Structures or Works Built by the United States. If an NWP activity also requires review by, or permission from, the Corps pursuant to 33 U.S.C. 408 because it will alter or temporarily or permanently occupy or use a U.S. Army Corps of Engineers (USACE) federally authorized Civil Works project (a “USACE project”), the

prospective permittee must submit a pre-construction notification. See paragraph (b)(10) of general condition 32. An activity that requires section 408 permission and/or review is not authorized by an NWP until the appropriate Corps office issues the section 408 permission or completes its review to alter, occupy, or use the USACE project, and the district engineer issues a written NWP verification.

32. Pre-Construction Notification. (a) *Timing*. Where required by the terms of the NWP, the prospective permittee must notify the district engineer by submitting a pre-construction notification (PCN) as early as possible. The district engineer must determine if the PCN is complete within 30 calendar days of the date of receipt and, if the PCN is determined to be incomplete, notify the prospective permittee within that 30 day period to request the additional information necessary to make the PCN complete. The request must specify the information needed to make the PCN complete. As a general rule, district engineers will request additional information necessary to make the PCN complete only once. However, if the prospective permittee does not provide all of the requested information, then the district engineer will notify the prospective permittee that the PCN is still incomplete and the PCN review process will not commence until all of the requested information has been received by the district engineer. The prospective permittee shall not begin the activity until either:

(1) He or she is notified in writing by the district engineer that the activity may proceed under the NWP with any special conditions imposed by the district or division engineer; or

(2) 45 calendar days have passed from the district engineer's receipt of the complete PCN and the prospective permittee has not received written notice from the district or division engineer. However, if the permittee was required to notify the Corps pursuant to general condition 18 that listed species (or species proposed for listing) or designated critical habitat (or critical habitat proposed for such designation) might be affected or are in the vicinity of the activity, or to notify the Corps pursuant to general condition 20 that the activity might have the potential to cause effects to historic properties, the permittee cannot begin the activity until receiving written notification from the Corps that there is "no effect" on listed species or "no potential to cause effects" on historic properties, or that any consultation required under Section 7 of the Endangered Species Act (see 33 CFR 330.4(f)) and/or section 106 of the National Historic Preservation Act (see 33 CFR 330.4(g)) has been completed. If the proposed activity requires a written waiver to exceed specified limits of an NWP, the permittee may not begin the activity until the district engineer issues the waiver. If the district or division engineer notifies the permittee in writing that an individual permit is required within 45 calendar days of receipt of a complete PCN, the permittee cannot begin the activity until an individual permit has been obtained. Subsequently, the permittee's right to proceed under the NWP may be modified, suspended, or revoked only in accordance with the procedure set forth in 33 CFR 330.5(d)(2).

(b) *Contents of Pre-Construction Notification*: The PCN must be in writing and include the following information:

(1) Name, address and telephone numbers of the prospective permittee;

(2) Location of the proposed activity;

(3) Identify the specific NWP or NWP(s) the prospective permittee wants to use to authorize the proposed activity;

(4) (i) A description of the proposed activity; the activity's purpose; direct and indirect adverse environmental effects the activity would cause, including the anticipated amount of loss of wetlands, other special aquatic sites, and other waters expected to result from the NWP activity, in acres, linear feet, or other appropriate unit of measure; a description of any proposed mitigation measures intended to reduce the adverse environmental effects caused by the proposed activity; and any other NWP(s), regional general permit(s), or individual permit(s) used or intended to be used to authorize any part of the proposed project or any related activity, including other separate and distant crossings for linear projects that require Department of the Army authorization but do not require pre-construction notification. The description of the proposed activity and any proposed mitigation measures should be sufficiently detailed to allow the district engineer to determine that the adverse environmental effects of the activity will be no more than minimal and to determine the need for compensatory mitigation or other mitigation measures.

(ii) For linear projects where one or more single and complete crossings require pre-construction notification, the PCN must include the quantity of anticipated losses of wetlands, other special aquatic sites, and other waters for each single and complete crossing of those wetlands, other special aquatic sites, and other waters (including those single and complete crossings authorized by an NWP but do not require PCNs). This information will be used by the district engineer to evaluate the cumulative adverse environmental effects of the proposed linear project, and does not change those non-PCN NWP activities into NWP PCNs.

(iii) Sketches should be provided when necessary to show that the activity complies with the terms of the NWP. (Sketches usually clarify the activity and when provided results in a quicker decision. Sketches should contain sufficient detail to provide an illustrative description of the proposed activity (e.g., a conceptual plan), but do not need to be detailed engineering plans);

(5) The PCN must include a delineation of waters, wetlands, and other special aquatic sites on the project site. Wetland delineations must be prepared in accordance with the current method required by the Corps. The permittee may ask the Corps to delineate the special aquatic sites and other waters on the project site, but there may be a delay if the Corps does the delineation, especially if the project site is large or contains many wetlands, other special aquatic sites, and other waters. Furthermore, the 45-day period will not start until the delineation has been submitted to or completed by the Corps, as appropriate. For NWP 27 activities that require PCNs because of other general conditions or regional conditions imposed by division engineers, see Note 2 of that NWP;

(6) If the proposed activity will result in the loss of greater than 1/10-acre of wetlands or 3/100-acre of stream bed and a PCN is required, the prospective permittee must submit a statement describing how the compensatory mitigation requirement will

be satisfied, or explaining why the adverse environmental effects are no more than minimal and why compensatory mitigation should not be required. As an alternative, the prospective permittee may submit a conceptual or detailed mitigation plan.

(7) For non-federal permittees, if any listed species (or species proposed for listing) or designated critical habitat (or critical habitat proposed for such designation) might be affected or is in the vicinity of the activity, or if the activity is located in designated critical habitat (or critical habitat proposed for such designation), the PCN must include the name(s) of those endangered or threatened species (or species proposed for listing) that might be affected by the proposed activity or utilize the designated critical habitat (or critical habitat proposed for such designation) that might be affected by the proposed activity. For NWP activities that require pre-construction notification, federal permittees must provide documentation demonstrating compliance with the Endangered Species Act;

(8) For non-federal permittees, if the NWP activity might have the potential to cause effects to a historic property listed on, determined to be eligible for listing on, or potentially eligible for listing on, the National Register of Historic Places, the PCN must state which historic property might have the potential to be affected by the proposed activity or include a vicinity map indicating the location of the historic property. For NWP activities that require pre-construction notification, federal permittees must provide documentation demonstrating compliance with section 106 of the National Historic Preservation Act;

(9) For an activity that will occur in a component of the National Wild and Scenic River System, or in a river officially designated by Congress as a “study river” for possible inclusion in the system while the river is in an official study status, the PCN must identify the Wild and Scenic River or the “study river” (see general condition 16); and

(10) For an NWP activity that requires permission from, or review by, the Corps pursuant to 33 U.S.C. 408 because it will alter or temporarily or permanently occupy or use a U.S. Army Corps of Engineers federally authorized civil works project, the pre-construction notification must include a statement confirming that the project proponent has submitted a written request for section 408 permission from, or review by, the Corps office having jurisdiction over that USACE project.

(c) *Form of Pre-Construction Notification:* The nationwide permit pre-construction notification form (Form ENG 6082) should be used for NWP PCNs. A letter containing the required information may also be used. Applicants may provide electronic files of PCNs and supporting materials if the district engineer has established tools and procedures for electronic submittals.

(d) *Agency Coordination:* (1) The district engineer will consider any comments from federal and state agencies concerning the proposed activity’s compliance with the terms and conditions of the NWPs and the need for mitigation to reduce the activity’s adverse environmental effects so that they are no more than minimal.

(2) Agency coordination is required for: (i) all NWP activities that require pre-construction notification and result in the loss of greater than 1/2-acre of waters of the United States; (ii) NWP 13 activities in excess of 500 linear feet, fills greater than one cubic yard per running foot, or involve discharges of dredged or fill material into special aquatic sites; and (iii) NWP 54 activities in excess of 500 linear feet, or that extend into the waterbody more than 30 feet from the mean low water line in tidal waters or the ordinary high water mark in the Great Lakes.

(3) When agency coordination is required, the district engineer will immediately provide (e.g., via e-mail, facsimile transmission, overnight mail, or other expeditious manner) a copy of the complete PCN to the appropriate federal or state offices (FWS, state natural resource or water quality agency, EPA, and, if appropriate, the NMFS). With the exception of NWP 37, these agencies will have 10 calendar days from the date the material is transmitted to notify the district engineer via telephone, facsimile transmission, or e-mail that they intend to provide substantive, site-specific comments. The comments must explain why the agency believes the adverse environmental effects will be more than minimal. If so contacted by an agency, the district engineer will wait an additional 15 calendar days before making a decision on the pre-construction notification. The district engineer will fully consider agency comments received within the specified time frame concerning the proposed activity's compliance with the terms and conditions of the NWPs, including the need for mitigation to ensure that the net adverse environmental effects of the proposed activity are no more than minimal. The district engineer will provide no response to the resource agency, except as provided below. The district engineer will indicate in the administrative record associated with each pre-construction notification that the resource agencies' concerns were considered. For NWP 37, the emergency watershed protection and rehabilitation activity may proceed immediately in cases where there is an unacceptable hazard to life or a significant loss of property or economic hardship will occur. The district engineer will consider any comments received to decide whether the NWP 37 authorization should be modified, suspended, or revoked in accordance with the procedures at 33 CFR 330.5.

(4) In cases where the prospective permittee is not a federal agency, the district engineer will provide a response to NMFS within 30 calendar days of receipt of any Essential Fish Habitat conservation recommendations, as required by section 305(b)(4)(B) of the Magnuson-Stevens Fishery Conservation and Management Act.

(5) Applicants are encouraged to provide the Corps with either electronic files or multiple copies of pre-construction notifications to expedite agency coordination.

## **ALASKA DISTRICT REGIONAL CONDITIONS for the 2026 NATIONWIDE PERMITS (NWP)**

The Alaska District Regulatory Office has issued the following Regional Conditions to ensure that activities authorized by NWPs in the Alaska District cause no more than minimal adverse environmental effects, individually and cumulatively. Before the Alaska District will verify an activity under one or more NWPs, the proposed activity must comply with the NWP terms and all applicable General and Regional Conditions.

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**APPLICABILITY:** The following would apply throughout the state of Alaska.

**RESTRICTIONS:**

**REGIONAL CONDITION A – Revoked Permits**

The following NWPs are revoked within Alaska:

- 24. Indian Tribe or State Administered Section 404 Programs
- 34. Cranberry Production Activities

**REGIONAL CONDITION B – Additional Pre-Construction Notification (PCN)  
Requirements**

1. NWP 13, Bank Stabilization: In addition to the PCN requirements specified by NWP 13, a PCN is required for proposed bank stabilization projects in fresh water when the proposed methods and techniques are not in accordance with the Streambank Revegetation and Protection: A Guide for Alaska Revised 2025 (September 2025) (Guide) or its future revisions. The Guide is available at <http://www.adfg.alaska.gov/index.cfm?adfg=streambankprotection.main>.
2. A PCN is required for any project located within the Municipality of Anchorage that qualifies for NWPs 12, 13, 14, 18, 57, and/or 58.
3. NWP 48: A PCN is required for impacts to greater than 1/2 acre of special aquatic sites (wetlands, mudflats, vegetated shallows, coral reefs, etc.).
4. NWP 12, 57, and 58: A PCN is required for projects located within permafrost soils identified using the appropriate soil survey (<https://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx>) or other appropriate data (e.g., other geospatial information and/or field gathered data).

**REGIONAL CONDITION C – Activities Involving Trenching**

Trenches may not be constructed or backfilled in such a manner as to drain waters of the U.S. (e.g., backfilling with extensive gravel layers, creating a French drain effect). Ditch plugs or other methods shall be used to prevent this situation.

Except for material placed as minor trench over-fill or surcharge necessary to offset subsidence or compaction, all excess materials shall be removed to a non-waters of the U.S. location. The backfilled trench shall achieve the pre-construction elevation, within a year of disturbance unless climatic conditions warrant additional time. The additional time must be approved by USACE.

Excavated material temporarily sidecast into wetlands shall be underlain with geotextile, ice pads, or similar material, to allow for removal of the temporary material to the maximum extent practicable.

**REGIONAL CONDITION D – Site Revegetation for Projects with Ground Disturbing Activities**

Re-vegetation of all disturbed areas within the project site shall begin as soon as site conditions allow and in the same growing season as the disturbance, unless climatic conditions warrant additional time (e.g., too wet or too cold). Topsoil (the outermost layer of soil, usually the top 2 – 8 inches) removed from the construction area shall be separated and used for site rehabilitation. When backfilling, topsoil shall be placed as the top layer to provide a seed bed for regrowth. If topsoil is not available from the project site, local native soil material obtained from an approved site may be used. Species used for seeding and planting shall be certified seed sources free of invasive species and follow this order of preference: 1) species native to the site; 2) species native to the region; 3) species native to the state.

**REGIONAL CONDITION E – Delineation of Project Footprint**

Prior to commencement of construction activities within waters of the U.S., the permittee shall clearly identify the permitted limits of disturbance at the project site with highly visible markers (e.g. construction fencing, flagging, silt barriers, coir logs, etc.). The permittee shall properly maintain such identification until construction is complete and the soils have been stabilized. The permittee is prohibited from conducting any unauthorized USACE-regulated activity outside of the permitted limits of disturbance (as shown on the permit drawings).

**REGIONAL CONDITION F – Maintenance of Hydrology Patterns**

Natural drainage patterns shall be maintained using appropriate methods. Excessive ponding or drying adjacent to fill areas shall indicate non-compliance with this condition.

**REGIONAL CONDITION G – Clean Fill Material:** No activity may use unsuitable material (e.g., trash, debris, car bodies, asphalt, etc.). Material used for construction or discharged must be free from toxic pollutants in toxic amounts. Only clean rip rap material, free of exposed rebar, asphalt, plastic, soil, etc., may be used.

**REGIONAL CONDITIONS H, I, J, K, and L APPLY TO SPECIFIC NWPs**

**REGIONAL CONDITION H – NWP 40 Agricultural Activities**

The following activities are not authorized by NWP 40: a. Installation, placement, or construction of drain tiles, ditches, or levees; and b. Mechanized land clearing or land leveling in wetlands within 300 feet of an anadromous water (anadromous water is defined by the state of AK see <https://www.adfg.alaska.gov/sf/SARR/AWC/index.cfm?ADFG=main.interactive>).

**REGIONAL CONDITION I – NWP 44 Mining Activities**

Placer mining activities are excluded from coverage by NWP 44 (Mining Activities). Placer mining may be authorized by Regional General Permit POA-2014-00055-M2 (RGP 8). In Alaska, NWP 44 may only authorize the following activities:

1. Hard rock mining within waters jurisdictional under only Section 404 of the Clean Water Act, not including trenching, drilling, or access road construction.
2. Temporary stockpiling of sand and gravel in waters of the U.S., limited to seasonally dewatered unvegetated sand/gravel bars. Stockpiles shall be completely removed and the area restored to pre-project contours within one year, in advance of seasonal ordinary high water events, or prior to equipment being removed from site, whichever occurs first.

**REGIONAL CONDITION J – NWP 48 and 55:**

When an Aquatic Farm Lease is required from the Alaska Department of Natural Resources (ADNR) for a new or modified aquatic farm, the applicant must obtain and submit a copy of the ADNR preliminary decision with a Preconstruction Notification to the USACE.

**REGIONAL CONDITION K – NWPs 21, 29, 39, 40, 42, 43, 44, 50, 51, and 52:**

The proposed NWP activity must not cause the loss of anadromous streambed.

**REGIONAL CONDITION L – NWP 6:** Trenching or similar temporary exploration activities are limited to 0.02-acre impact per each exploration point. WOTUS impacts exceeding this threshold may indicate the activity is no longer exploratory in nature and could be considered mining and this would require a PCN to the Alaska District for review of a Regional General Permit (RGP) 8 or Standard permit.



THE STATE  
of **ALASKA**  
GOVERNOR MIKE DUNLEAVY

**Department of Environmental  
Conservation**  
**DIVISION OF WATER**

Wastewater Discharge Authorization Program

555 Cordova Street  
Anchorage, Alaska 99501-2617  
Main: 907.269.6285  
Fax: 907.334.2415  
[www.dec.alaska.gov/wastewater](http://www.dec.alaska.gov/wastewater)

December 17, 2025

US Army Corps of Engineers (USACE)  
Attn: Mr. Frederick Land, Chief, South Section  
Regulatory Division, CEPOA-RD  
P.O. Box 6898  
JBER, AK 99506-0898

Re: US Army Corps of Engineers, 2026 Nationwide Permit  
POA-2025-0002 v1.0

Mr. Land,

In accordance with Section 401 of the Federal Clean Water Act and provisions of the Alaska Water Quality Standards, the Department of Environmental Conservation (DEC) is issuing the enclosed water quality certification with conditions that the discharge from the proposed project will comply with water quality requirements for dredging and/or fill material in waters of the U.S., authorized by a permit/license.

A person authorized under a provision of 18 AAC 15 may request an informal review of a contested decision by the Division Director in accordance with 18 AAC 15.185 and/or an adjudicatory hearing in accordance with 18 AAC 15.195 – 18 AAC 15.340. See DEC's "Appeal a DEC Decision" web page <https://dec.alaska.gov/commish/review-guidance/> for access to the required forms and guidance on the appeal process. Please provide a courtesy copy of the adjudicatory hearing request in an electronic format to the parties required to be served under 18 AAC 15.200. Requests must be submitted by the deadline specified in 18 AAC 15.

By copy of this letter, we are advising the U.S. Army Corps of Engineers of our actions and enclosing a copy of the certification for their use.

If you have any questions regarding the attached certification, please contact Willow Weimer at 907-269-6096, [dec-401cert@alaska.gov](mailto:dec-401cert@alaska.gov).

Sincerely,

A handwritten signature in black ink, appearing to read "Nick Waldo".

Nick Waldo  
Program Manager, Storm Water and Wetlands

Enclosure: 401 Water Quality Certificate

cc: (with encl.)

Minnillo, Mark J (DFG)  
<mark.minnillo@alaska.gov>; Markway,  
Heather N CIV USARMY CEPOA (USA)  
<heather.n.markway@usace.army.mil>;  
Kanouse, Kate M (DFG)  
<kate.kanouse@alaska.gov>; Marie, Megan E  
(DFG) <megan.marie@alaska.gov>; Kirsch,  
Jonathan M (DFG)  
<jonathan.kirsch@alaska.gov>; Brase, Audra  
L (DFG) <audra.brase@alaska.gov>;  
Nichols, Todd F (DFG)  
<todd.nichols@alaska.gov>; Bear, Chad E  
(DFG) <chad.bear@alaska.gov>; Bouwens,  
Ken A (DFG) <ken.bouwens@alaska.gov>;  
Myers, Sarah E E (DFG)  
<sarah.myers@alaska.gov>; Cafferty,  
Kaitlynn L (DFG)  
<kaitlynn.cafferty@alaska.gov>;  
ak\_fisheries@fws.gov; DEC 401 Cert (DEC  
sponsored) <dec-401cert@alaska.gov>

Southeast AK-Yakutat, Wrangell, Juneau, Sitka,  
Petersburg - Kate Kanouse, ADF&G: USFWS  
Field Office Juneau  
Matthew LaCroix, EPA AK Operations  
Jeffrey Brittain, EPA AK Operations

**STATE OF ALASKA**  
**DEPARTMENT OF ENVIRONMENTAL CONSERVATION**  
**CWA §401 Water Quality Certification**

In accordance with Section 401 of the Federal Clean Water Act (CWA) and the Alaska Water Quality Standards (18 AAC 70), a CWA §401 Water Quality Certification is issued to the U.S. Army Corps of Engineers, Alaska District, Regulatory Branch, CEPOA-RD (Attn: Frederick Land) at P.O. Box 6898, JBER, Alaska 99506 for placement of dredged and/or fill material in waters of the U.S. including wetlands and streams in association with the reissuance of the proposed 2026 U.S. Army Corps of Engineers Nationwide Permits (NWP) and the proposed Alaska Regional Conditions.

There are currently 56 NWPs. These NWPs were published on January 13, 2021 (86 FR 2744, and a correction at 86 FR 27274) and December 27, 2021 (86 FR 73522) and are currently scheduled to expire on March 14, 2026.

A state-issued water quality certification is required under Section 401 because the U.S. Army Corps of Engineers will authorize the proposed activity permit (POA-2025-0002), and a discharge of pollutants to waters of the U.S. located in the State of Alaska may result from the proposed activity. Public notice of the application for this certification was given as required by 18 AAC 15.180 in the DEC Public Notice POA-2020-0002, posted from August 1, 2025, to September 5, 2025.

The proposed activity is located throughout Alaska.

**General Permit Title:** 2026 Nationwide Permit Reissuance

NWPs are general permits issued on a nationwide basis to streamline the authorization of activities that result in no more than minimal individual and cumulative adverse environmental effects. Many of the proposed NWPs require a notification to the district engineer before commencing those activities, to ensure that the activities authorized by those NWPs cause no more than minimal individual and cumulative adverse environmental effects.

**Summary of Activity to be Authorized by the General Permit:** On June 18, 2025, the U.S. Army Corps of Engineers (Corps) published in the Federal Register its proposal to reissue 56 existing Nationwide Permits (NWPs) and issue one new NWP. One NWP is not proposed for reissuance.

The proposed new NWP would authorize activities aimed at enhancing the passage of fish and other aquatic organisms through aquatic ecosystems. In addition, the Corps proposes to modify certain other NWPs to simplify and clarify them. The proposed modifications to the NWPs' general conditions and definitions aim to reduce burdens on the regulated public while continuing to comply with the statutory requirement that NWPs authorize only activities with no more than minimal individual and cumulative adverse environmental effects.

The proposed categories of activities to be authorized by the NWPs for which certification is requested are described in the text of the proposed NWPs. Nationwide permits numbered 15, 16, 17, 18, 21, 25, 29, 30, 39, 40, 41, 42, 43, 46, 49, 50, and 59 would authorize activities that may result in discharges; therefore, a 401-water quality certification is required for those Nationwide Permits. Nationwide permits numbered 3, 4, 5, 6, 7, 12, 13, 14, 19, 20, 22, 23, 27, 31, 32, 33, 36, 37, 38, 44, 45, 48, 51, 52, 53, 54, 57, 58, and A would authorize various activities, some of which may result in a

discharge and require 401 water quality certification, and others which may not. It is the opinion of the Corps Nationwide permits numbered 1, 2, 9, 10, 11, 24, 28, 35, and 55 could not reasonably be expected to result in a discharge into waters of the United States and we do not deem certification to be necessary for this group of NWP's; however, the final decision of whether certification is needed for any of these nine types of activities rests with the certifying authority. Additionally, NWP 8 only authorizes activities seaward of the territorial seas and therefore does not require water quality certification.

Also proposed is the issuance of twelve Alaska District Regional Conditions (Regional Conditions A-L). Before the Alaska District verifies an activity under one or more NWP's, the proposed activity must comply with the NWP terms and all applicable General and Regional Conditions.

**Estimated Number of Discharges Expected to be Authorized by the General Permit**

**Annually:** 1014

The Department of Environmental Conservation (DEC) reviewed the application and certifies that if the permittee complies with the terms and conditions imposed by the NWP General Permit and Alaska Regional Conditions as written in the Special Public Notice published June 18, 2025, there is reasonable assurance that the proposed activity, as well as any discharge which may result, will comply with applicable provisions of Section 401 of the CWA and the Alaska Water Quality Standards, 18 AAC 70, provided that the following additional measures are adhered to.

Date: December 17, 2025



---

Nick Waldo, Program Manager  
Storm Water and Wetlands



# FNSB FLOODPLAIN DEVELOPMENT PERMIT

**Permit Number:** FP 2026-0011

**Requirements for this permit:**

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**Application Type:**

Construction of any new or substantially improved structure or placement of moveable structure (15.04.080 B)

**Standards:**

15.04.080 B

Structure shall be designed to prevent floatation, collapse or lateral movement. Fuel storage tanks shall be adequately secured to prevent floatation or disturbance. On-site waste disposal systems shall be designed to minimize infiltration of flood waters. All mechanical and electrical devices subject to water damage elevated at or above BFE. Improvements located below BFE shall be constructed with materials resistant to flood damage.

15.04.080 C

Residential Structures. All new construction of and substantial improvements to residential structures shall have:

1. The lowest floor (including basement) elevated to or above the base flood elevation; and
2. Other fully enclosed areas below the lowest floor, such as crawl spaces, that are subject to flooding, and that are usable solely for the parking of vehicles, building access, or limited storage, shall be designed to automatically equalize hydrostatic flood forces on exterior walls by allowing for the entry and exit of floodwaters. Designs for meeting this requirement must either be certified by a registered professional engineer or architect or must meet or exceed the following criteria:

- a. A minimum of two openings having a total net area of not less than one square inch for every square foot of enclosed area subject to flooding shall be provided.
  - b. The bottom of all openings shall be no higher than one foot above grade.
  - c. Openings shall be equipped with screens, louvers, valves or other coverings or devices; provided they permit the automatic entry and exit of floodwaters.
- 

**Issued To:**

Name: FEHRMANN CHESTER

Mailing Address: 550 W 7TH AVE SUITE 1340

City/State/Zip ANCHORAGE AK 99501

**Issued By:**

**Date:** 11/12/2025

\_\_\_\_\_  
(Floodplain Administrator)

**Description of proposed work:**

Shooting range and trailhead facility

**Specific Standards:**

Construction must adhere to the submitted plans in the application material. Any deviation from the submitted materials must be reported and additional information may be required.

**Parcel(s)**

0226351 TL-100 SEC 1-12 T1N-R6E

**Project Address:**

9290 CHENA HOT SPRINGS RD

**NOTE:**

This permit authorizes development in the Special Flood Hazard Area described above.

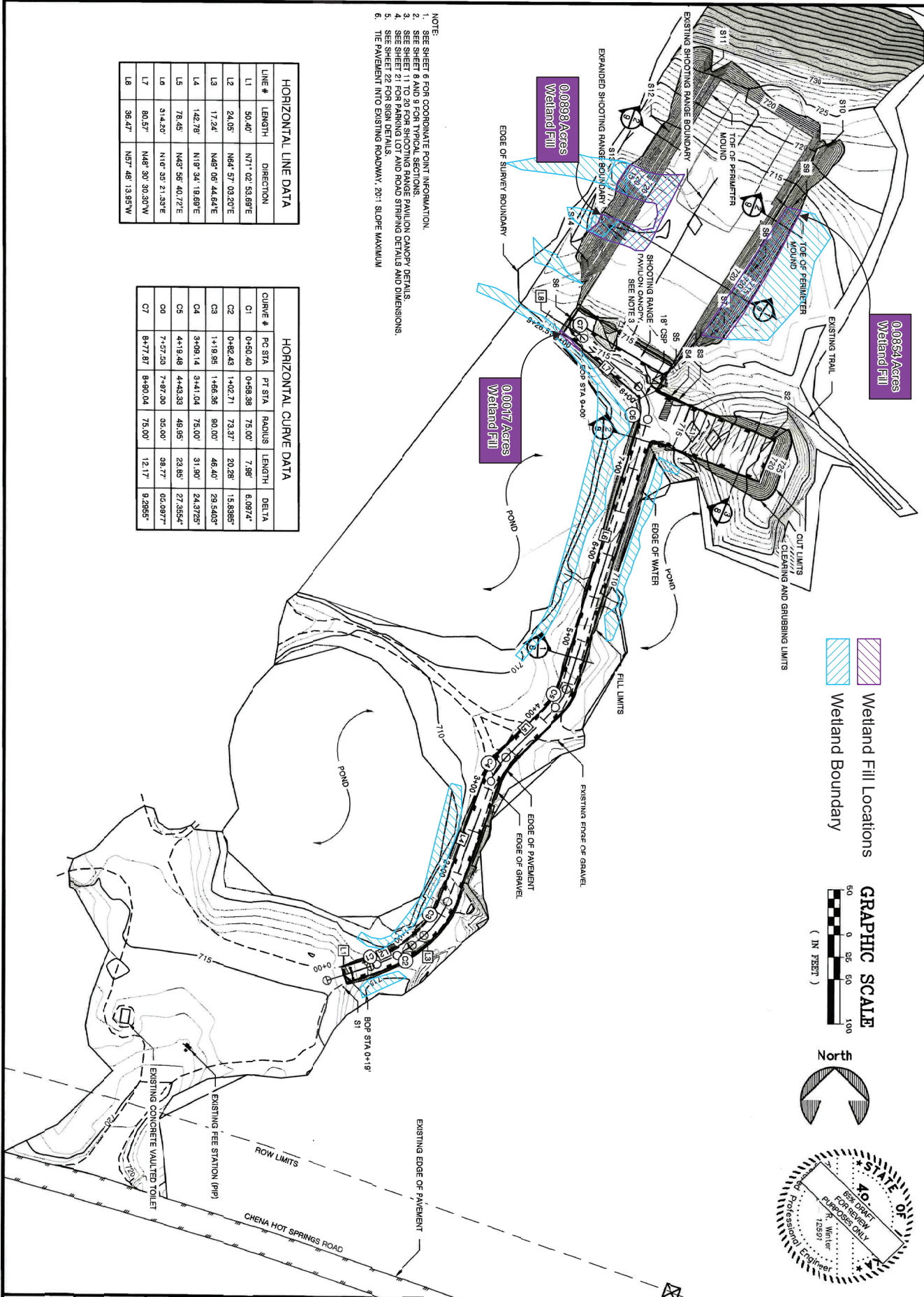
A Certificate of Compliance shall be applied for within 60 days after obtaining the elevation certificate.

The holder of this permit is required to comply with all other applicable laws, including city, borough, state and federal laws.

| LINE # | LENGTH  | DIRECTION        |
|--------|---------|------------------|
| L1     | 50.40'  | N71° 02' 53.69"E |
| L2     | 24.05'  | N64° 57' 03.20"E |
| L3     | 11.24'  | N68° 06' 44.64"E |
| L4     | 142.78' | N19° 34' 18.69"E |
| L5     | 78.45'  | N68° 56' 40.72"E |
| L6     | 314.20' | N16° 35' 21.35"E |
| L7     | 80.57'  | N48° 30' 30.30"W |
| L8     | 36.47'  | N57° 48' 13.85"W |

| CURVE # | PC STA  | PT STA  | RADIUS | LENGTH | DELTA    |
|---------|---------|---------|--------|--------|----------|
| C1      | 0+00.40 | 0+58.38 | 75.00' | 7.98'  | 6.0974°  |
| C2      | 0+62.43 | 1+02.71 | 73.37' | 20.28' | 15.8885° |
| C3      | 1+19.85 | 1+66.36 | 90.00' | 46.40' | 29.5463° |
| C4      | 3+09.14 | 3+41.04 | 75.00' | 31.90' | 24.3725° |
| C5      | 4+18.48 | 4+43.33 | 49.95' | 23.85' | 27.5564° |
| C6      | 7+57.53 | 7+87.30 | 35.00' | 38.77' | 65.0977° |
| C7      | 8+77.87 | 8+90.04 | 75.00' | 12.17' | 9.2956°  |

- NOTE:
1. SEE SHEET 6 FOR COORDINATE POINT INFORMATION.
  2. SEE SHEET 8 AND 9 FOR TYPICAL SECTIONS.
  3. SEE SHEET 11 TO 20 FOR SHOOTING RANGE PAVILION CANOPY DETAILS.
  4. SEE SHEET 21 FOR PARKING LOT AND ROAD STRIPING DETAILS AND DIMENSIONS.
  5. SEE SHEET 22 FOR SIGN DETAILS.
  6. THE PAVEMENT INTO EXISTING HIGHWAY, 20:1 SLOPE MAXIMUM



**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**

CHENA RIVER SRA: UPPER STILES CREEK  
 SHOOTING RANGE IMPROVEMENTS  
 PROJECT No. 70011-1

SITE PLAN WITH WETLAND IMPACTS



PREPARED: CKD  
 DRAWN: CKD  
 REVIEWED: RW  
 DATE: 3/10/2023

SHEET

7.1

OF 22 SHEETS



# **APPENDIX B**

## **SURVEY REQUIREMENTS**

1. Alaska Construction Surveying Requirements (US Customary Units)





# **Alaska Department of Transportation and Public Facilities**

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



# Alaska Construction Surveying Requirements (US Customary Units)

## Table of Contents

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# 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

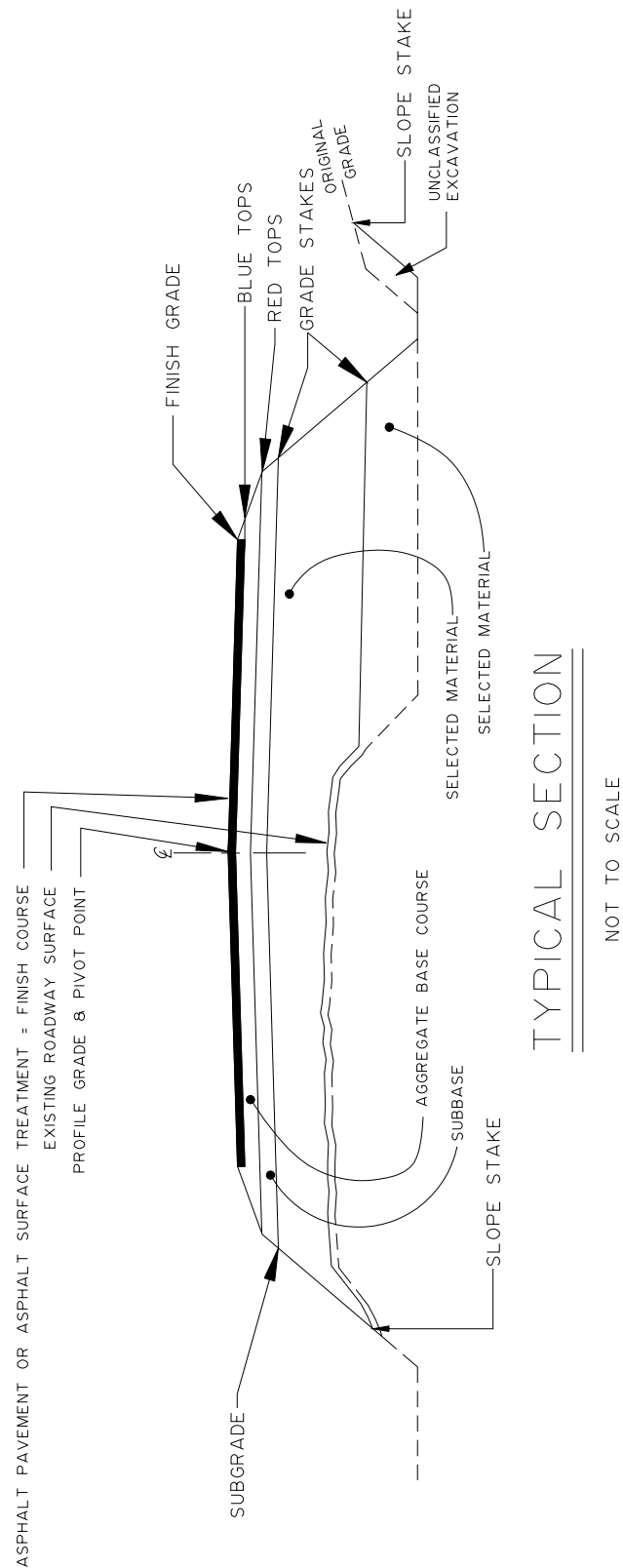
**Table 2—Survey frequency requirements (in feet)**

|                                                                                        | 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



### 3. Survey point materials requirements

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

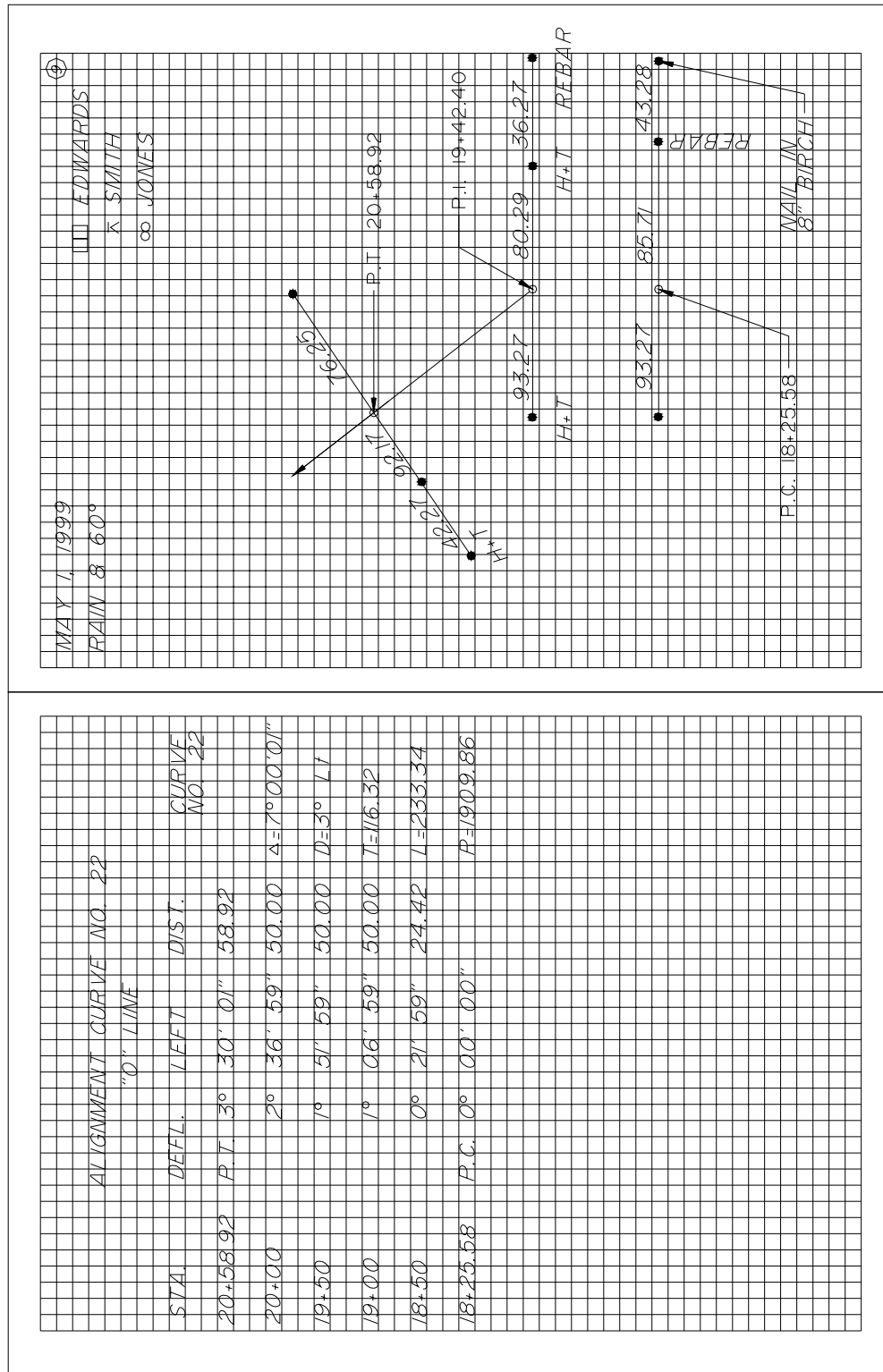
**Table 3—Survey point materials requirements**

|                               | 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.



## 5. Typical clearing notes

- ✓ Exclude areas not needing clearing.
- ✓ Draw a diagram as required to show unusual or confusing areas.

[illegible]

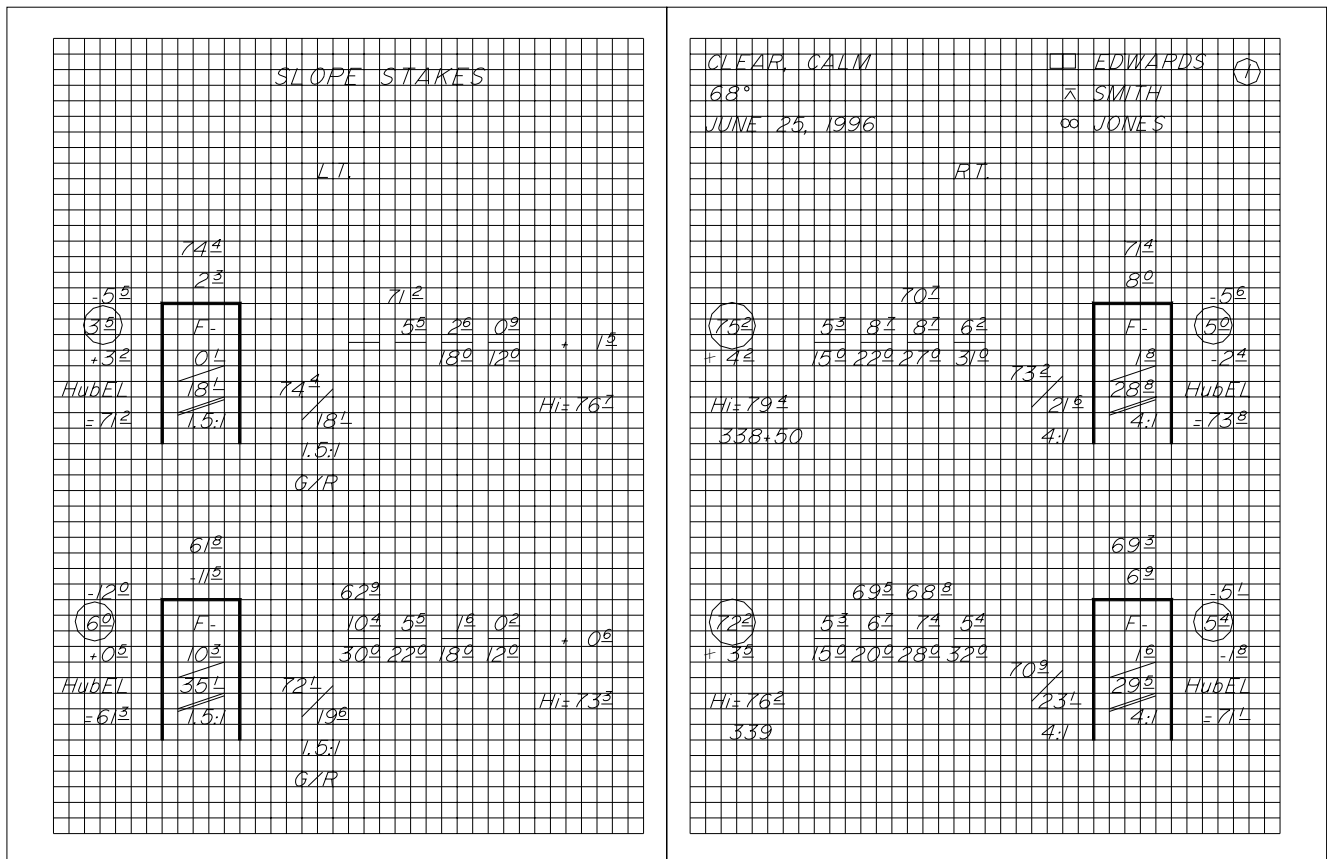
## 6. Typical level notes

- ✓ Balance back sights and foresights.
- ✓ Establish all benchmarks and take the centerline profile before doing any staking involving elevations.
- ✓ Don't set benchmarks in utility poles.
- ✓ Don't use side shots on benchmarks.
- ✓ Use the turn through method when establishing benchmarks.
- ✓ Re-check benchmarks after each major freeze/thaw cycle and/or any environmental event that may change the benchmark elevation.
- ✓ Do not use double rodding.
- ✓ Run separate level loops between all benchmarks.
- ✓ Set benchmarks in trees of at least six-inch diameter, unless approved by the Project Engineer.
- ✓ Correct errors in benchmark elevations so they will not affect the elevations of succeeding benchmarks.
- ✓ Consult with the Project Engineer before placing benchmarks in areas of permafrost or other unstable ground.
- ✓ Establish benchmarks at intervals and locations consistent with good engineering practice, and generally not more than 1000 feet.
- ✓ Completely describe benchmarks when establishing or re-establishing their elevation. Give centerline stationing, offset, benchmark projection, and observable benchmark characteristics. When checking into or out of benchmarks, note the book and page number that contains the most recent elevation establishment for that benchmark.
- ✓ Write the station on the top twelve inches facing centerline, with numerals a minimum of one inch in height.

| STA.     | BS+   | HI      | FS-   |  | ELEV.   | 45°± CLEAR<br>WARM CALM    |         |       | ⌘ □     | EDWARDS |
|----------|-------|---------|-------|--|---------|----------------------------|---------|-------|---------|---------|
|          |       |         |       |  |         | WILD 413579                | 3-23-90 |       | +       | SMITH   |
| TBM #101 |       |         |       |  |         |                            |         |       |         |         |
| 6+72     |       |         |       |  | 161.309 | Nail in base of 12" Spruce |         |       |         |         |
|          |       |         |       |  |         | 85' 10" LT.                | 6+72    |       |         |         |
|          | 3.877 | 165.186 |       |  |         |                            |         |       |         |         |
| 6+00     |       |         | 1.95  |  | 163.24  |                            |         |       |         |         |
| 6+25     |       |         | 2.32  |  | 162.87  |                            |         |       |         |         |
| 6+50     |       |         | 2.96  |  | 162.23  |                            |         |       |         |         |
| T.P.     |       |         | 3.246 |  | 161.940 |                            |         |       |         |         |
|          | 1.103 | 163.043 |       |  |         |                            |         |       |         |         |
| 6+75     |       |         | 2.31  |  | 160.73  |                            |         |       |         |         |
| 7+00     |       |         | 2.56  |  | 160.48  |                            |         |       |         |         |
| T.P.     |       |         | 2.823 |  | 160.220 |                            |         |       |         |         |
|          | 2.332 | 162.552 |       |  |         |                            |         |       |         |         |
|          |       |         |       |  |         | Nail in base of 18" stump  |         |       |         |         |
| TBM #102 |       |         | 1.143 |  | 161.409 | 60' 4" RT                  | 7+21    | Elev. | 161.413 |         |

## 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.

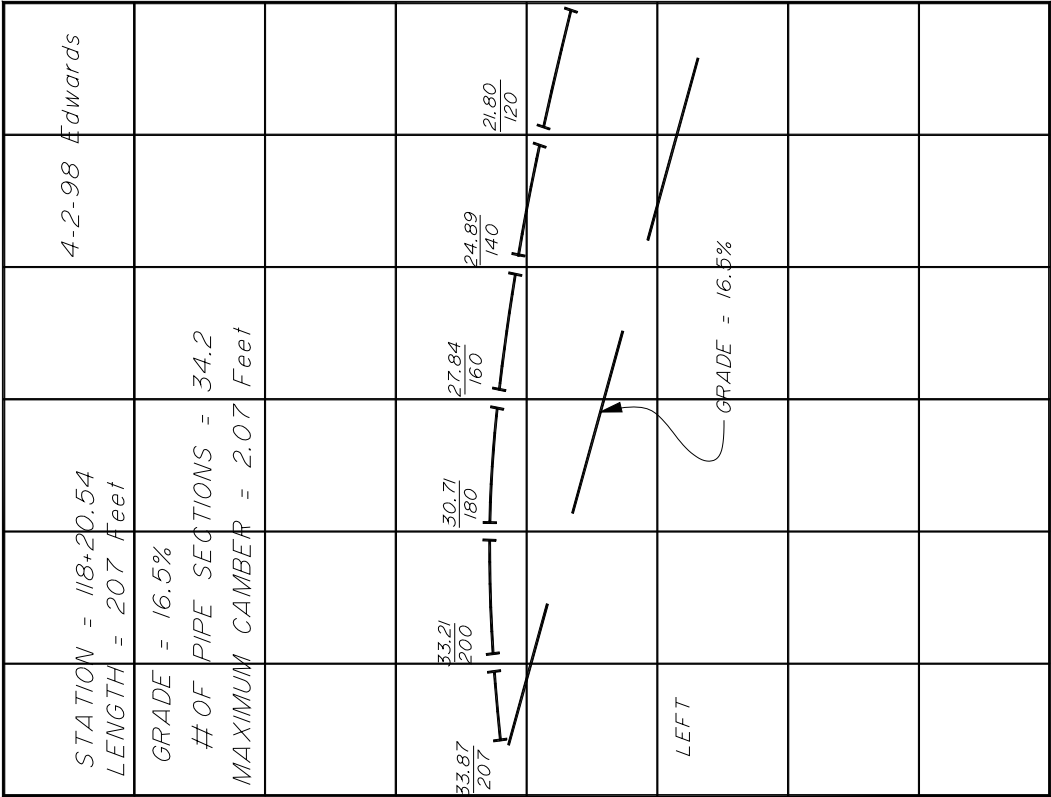
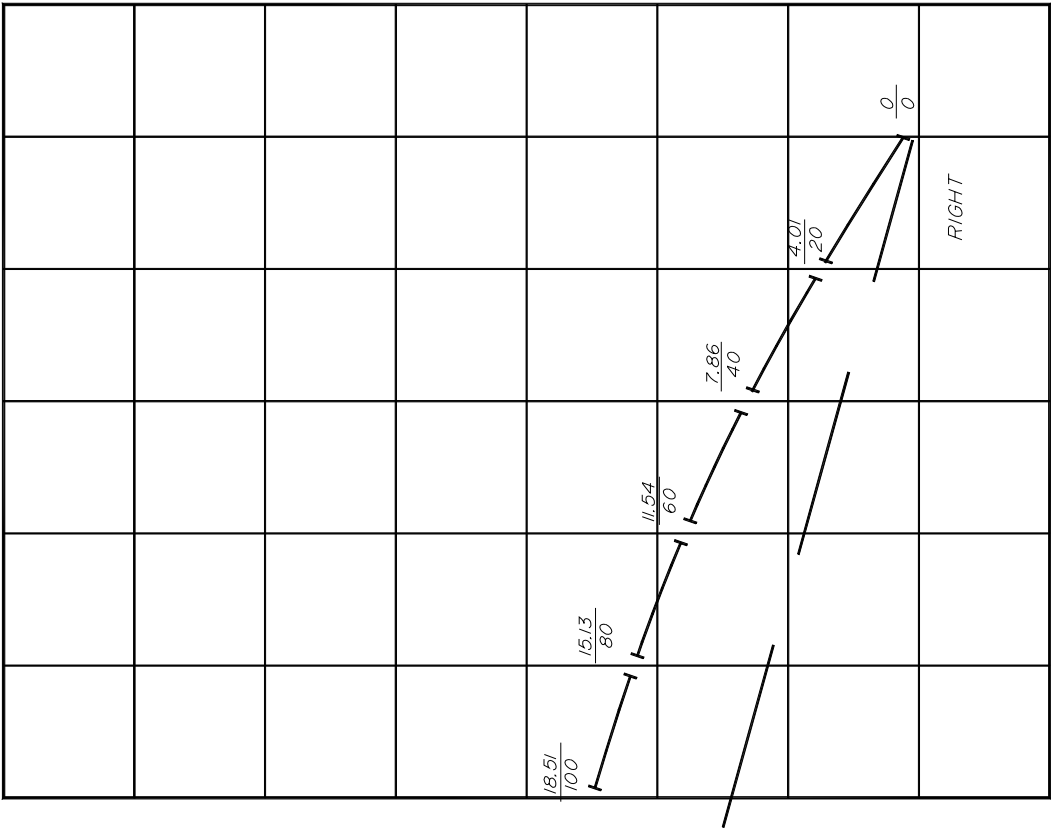


## 8. Typical culvert notes

- ✓ 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.

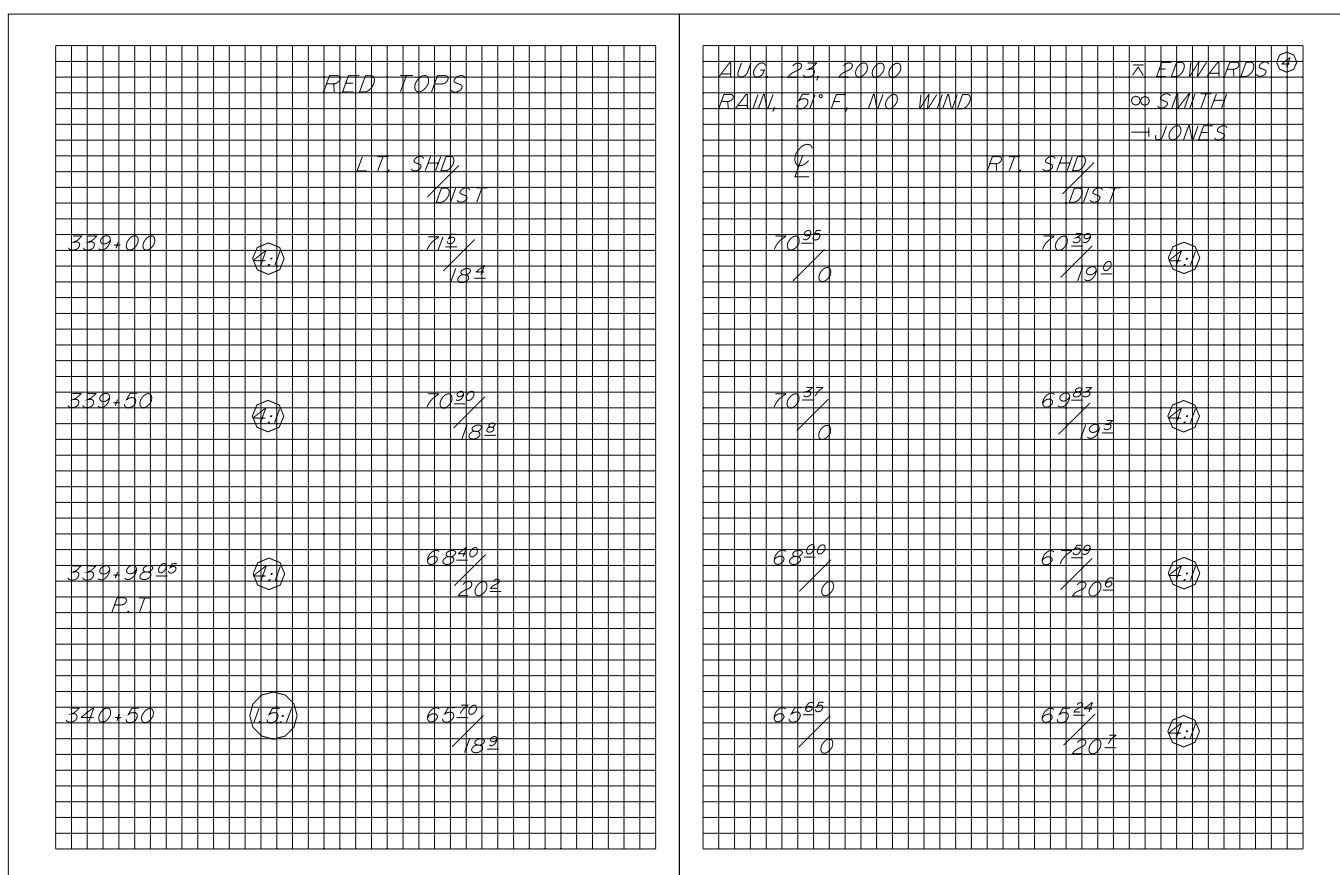
[illegible]

# 9. Typical culvert camber diagram



## 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.





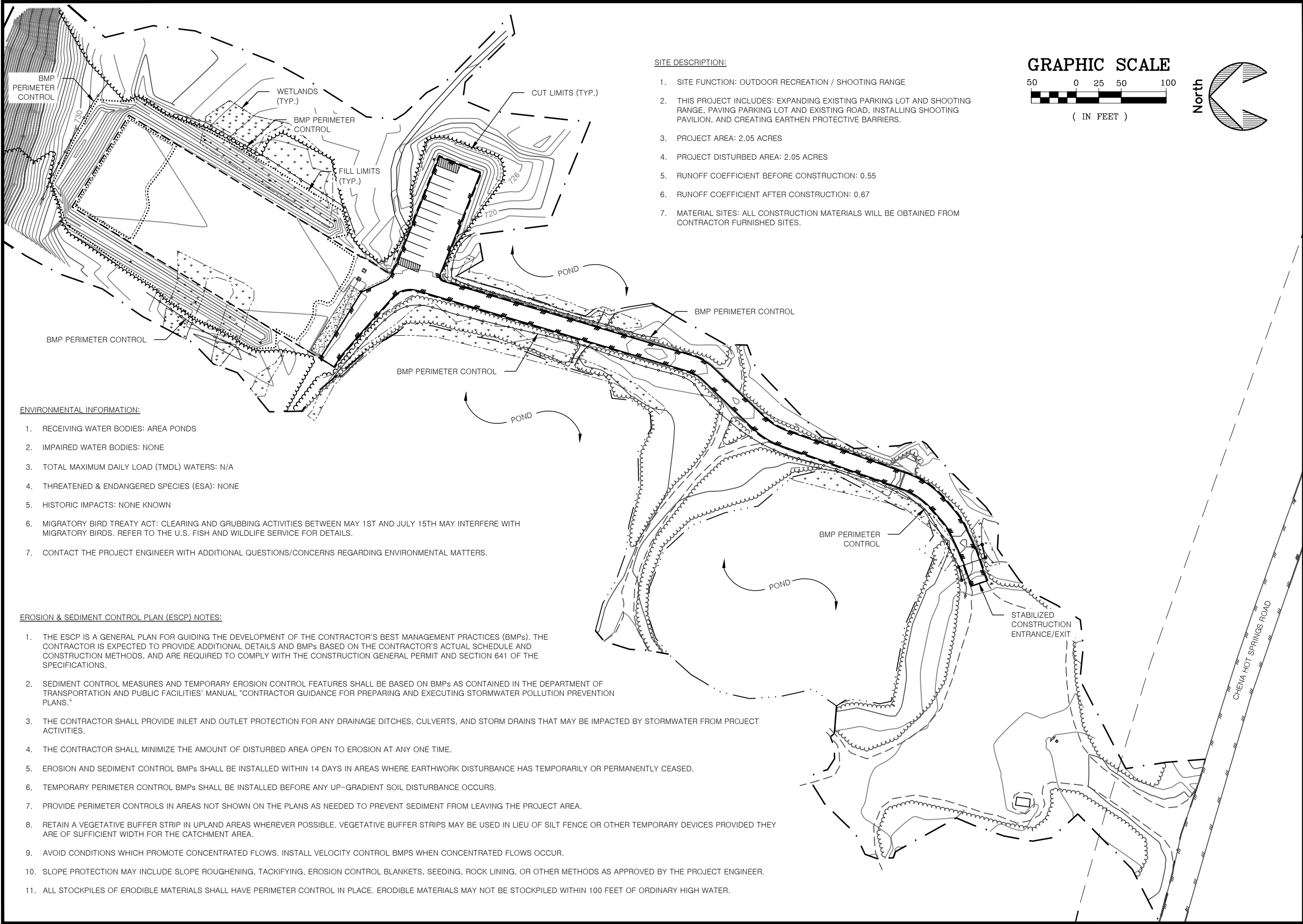
# **APPENDIX C**

## **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.

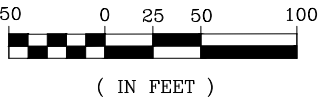




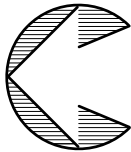
SITE DESCRIPTION:

1. SITE FUNCTION: OUTDOOR RECREATION / SHOOTING RANGE
2. THIS PROJECT INCLUDES: EXPANDING EXISTING PARKING LOT AND SHOOTING RANGE, PAVING PARKING LOT AND EXISTING ROAD, INSTALLING SHOOTING PAVILION, AND CREATING EARTHEN PROTECTIVE BARRIERS.
3. PROJECT AREA: 2.05 ACRES
4. PROJECT DISTURBED AREA: 2.05 ACRES
5. RUNOFF COEFFICIENT BEFORE CONSTRUCTION: 0.55
6. RUNOFF COEFFICIENT AFTER CONSTRUCTION: 0.67
7. MATERIAL SITES: ALL CONSTRUCTION MATERIALS WILL BE OBTAINED FROM CONTRACTOR FURNISHED SITES.

**GRAPHIC SCALE**



North



ENVIRONMENTAL INFORMATION:

1. RECEIVING WATER BODIES: AREA PONDS
2. IMPAIRED WATER BODIES: NONE
3. TOTAL MAXIMUM DAILY LOAD (TMDL) WATERS: N/A
4. THREATENED & ENDANGERED SPECIES (ESA): NONE
5. HISTORIC IMPACTS: NONE KNOWN
6. MIGRATORY BIRD TREATY ACT: CLEARING AND GRUBBING ACTIVITIES BETWEEN MAY 1ST AND JULY 15TH 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.

EROSION & SEDIMENT CONTROL PLAN (ESCP) NOTES:

1. THE ESCP IS A GENERAL PLAN FOR GUIDING THE DEVELOPMENT OF THE CONTRACTOR'S BEST MANAGEMENT PRACTICES (BMPs). THE CONTRACTOR IS EXPECTED TO PROVIDE ADDITIONAL DETAILS AND BMPs BASED ON THE CONTRACTOR'S ACTUAL SCHEDULE AND CONSTRUCTION METHODS, AND ARE REQUIRED TO COMPLY WITH THE CONSTRUCTION GENERAL PERMIT AND SECTION 641 OF THE SPECIFICATIONS.
2. SEDIMENT CONTROL MEASURES AND TEMPORARY EROSION CONTROL FEATURES SHALL BE BASED ON BMPs AS CONTAINED IN THE DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES' 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 14 DAYS IN AREAS WHERE EARTHWORK DISTURBANCE HAS TEMPORARILY OR PERMANENTLY CEASED.
6. TEMPORARY PERIMETER CONTROL BMPs SHALL BE INSTALLED BEFORE ANY UP-GRADIENT SOIL DISTURBANCE OCCURS.
7. PROVIDE PERIMETER CONTROLS IN AREAS NOT SHOWN ON THE PLANS AS NEEDED TO PREVENT SEDIMENT FROM LEAVING THE PROJECT AREA.
8. 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.
9. AVOID CONDITIONS WHICH PROMOTE CONCENTRATED FLOWS. INSTALL VELOCITY CONTROL BMPs WHEN CONCENTRATED FLOWS OCCUR.
10. SLOPE PROTECTION MAY INCLUDE SLOPE ROUGHENING, TACKIFYING, EROSION CONTROL BLANKETS, SEEDING, ROCK LINING, OR OTHER METHODS AS APPROVED BY THE PROJECT ENGINEER.
11. ALL STOCKPILES OF ERODIBLE MATERIALS SHALL HAVE PERIMETER CONTROL IN PLACE. ERODIBLE MATERIALS MAY NOT BE STOCKPILED WITHIN 100 FEET OF ORDINARY HIGH WATER.

**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**

**CHENA RIVER SRA: UPPER STILES CREEK**  
**SHOOTING RANGE IMPROVEMENTS**  
**PROJECT No. 70011-1**

**EROSION AND SEDIMENT CONTROL PLAN**



PREPARED: FWS  
DRAWN: FWS  
REVIEWED: KRW  
DATE: JULY 2026

SHEET

1

OF 1 SHEETS



# **APPENDIX D**

## **SPECIAL REPORTS**

**1. Design Alaska - Geotechnical Investigation Field Report**

**2. Shannon & Wilson - Lead Assessment Summary Report**

Note that these reports do not serve as substitution for the requirements of Subsection 102-1.04. Contractors are highly encouraged to conduct an examination of the work site as per Subsection 102-1.04 Examination of Plans, Specifications, Special Provisions, and Work Site.



# Geotechnical Investigation Field Report



---

|                         |                                                             |                          |                  |
|-------------------------|-------------------------------------------------------------|--------------------------|------------------|
| <b>Date:</b>            | 02-03-2023                                                  | <b>Field Visit Date:</b> | 02-02-2023       |
| <b>Project:</b>         | Stiles Creek Shooting Range Pavilion                        | <b>Field Visit Time:</b> | 11:00 am         |
| <b>Location:</b>        | Stiles Creek Shooting Range, 36 Mile Chena Hot Springs Road | <b>Weather:</b>          | 10°F and Snowing |
| <b>Present at Site:</b> | Isaac Ladines, Taylor Tharp, Ron Drumhiller                 |                          |                  |

---

The following field report documents the results of a geotechnical investigation performed for the Stiles Creek Shooting Range Pavilion in Fairbanks, Alaska. The purpose of the investigation was to obtain a general understanding of the subsurface conditions. Based off the topography and location adjacent to gravel pits used to construct the Chena Hot Springs Road, it is likely that the first few feet at the drilling locations are overburden from the original gravel extraction.

Two boreholes were performed. BH-1 was advanced within the western footprint of the proposed pavilion while BH-2 was advanced within the eastern footprint. The borings were advanced with a truck mounted auger. Borehole data is attached to this report and findings discussed below.

BH-1 encountered a vegetative mat a few inches thick followed by frozen silt with organic debris through the first 3' beneath the snowpack. At 3-5' the material transitioned to a frozen silty gravel then to a thawed silty gravel with slightly larger aggregate before hitting groundwater at an approximate 6' depth. From 7' to 14' the consistency of the material was a saturated poorly graded gravel with silt and some sand. The gravel appeared alluvial in nature with round rocks up to 1" in size and smaller subrounded rocks.

BH-2 similarity encountered frozen silt with organic debris to the first 3'. From 3-5' frozen silty gravel was encountered before transitioning to a thawed silty gravel just before hitting ground water at approximately 6'. From 7-15' there was a significant amount of free water and the material was composed mostly of poorly graded gravel with silt with some sand. The gravel appeared lighter in color but overall similar to what was discovered in BH-1.



Figure 1: BH-1 Bottom of boring material.



Figure 2: BH-2 Bottom of boring material.



2/3/2023 3:54 PM STILES CREEK BORING LOCATIONS.DWG

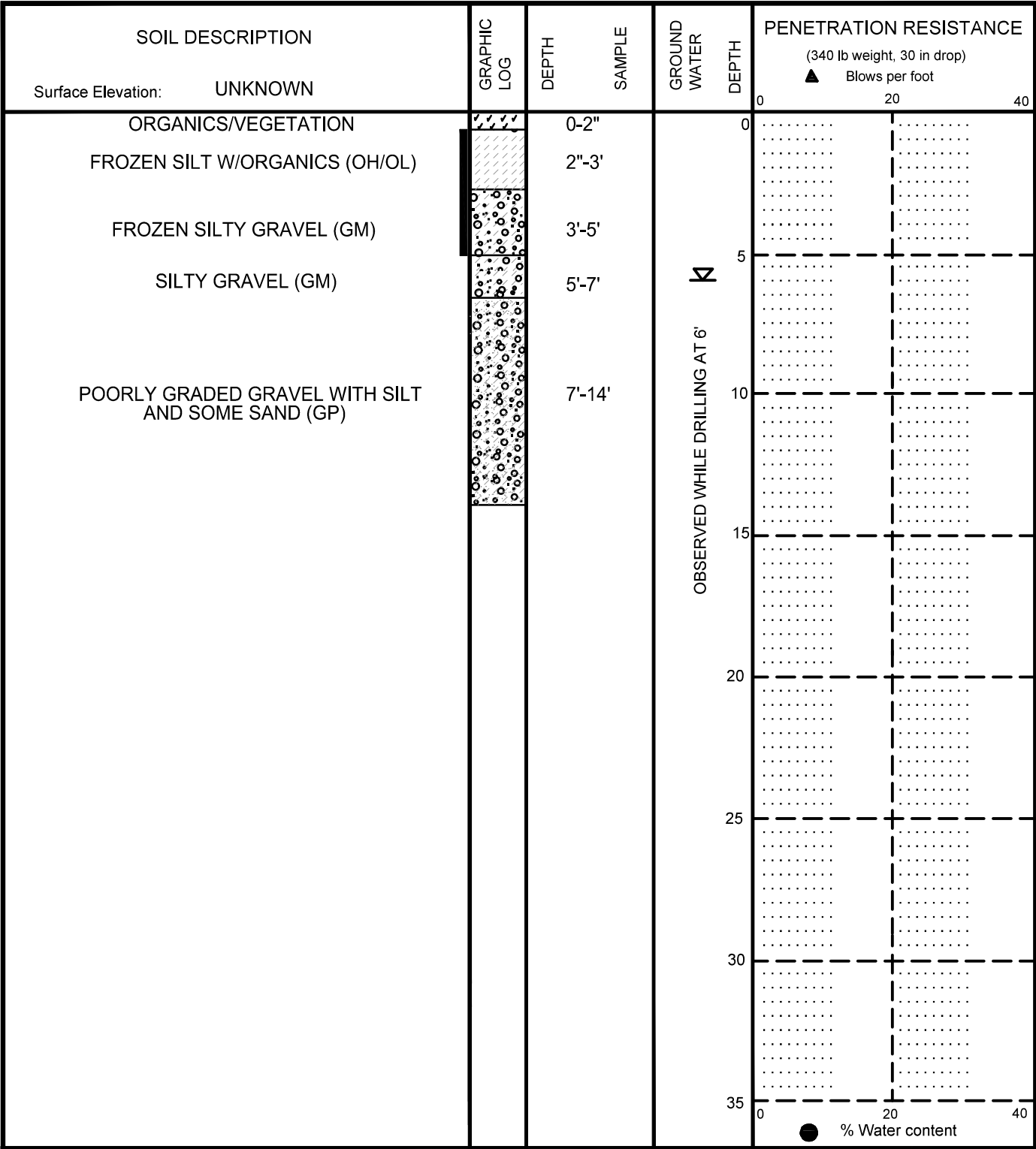
**Design  
Alaska**

Architects • Engineers • Surveyors  
601 College Road Fairbanks AK 99701  
907.452.1241 AECC511 designalaska.com

**STILES CREEK SHOOTING RANGE BORE HOLE LOCATIONS**  
SCALE 1" = 200'

|              |             |
|--------------|-------------|
| ISSUE DATE   | 10-FEB-2023 |
| COMM. NUMBER | 862203      |
| DESIGNED BY  | -           |
| DRAWN BY     | IAL         |

0" 1"



Legend

Frozen Ground

Water level

1 Sample number

\* Sample not recovered

Note: The stratification lines represent the approximate boundaries between soil types and the transition may be gradual.

PROJECT: STILES CREEK SHOOTING RANGE

LOG OF BORING No. 1

DATE DRILLED: 2-2-23

LOGGED BY: IAL

DRILLING METHOD: AUGER

DRILL RIG TYPE: TRUCK MOUNTED

DRILLED BY: RON (THE DRILLING COMPANY)

SURFACE ELEVATION: UNKNOWN

COMMENTS: ADJACENT BLACK SPRUCE AND SOME WILLOW

Design Alaska

Architects Engineers Surveyors

601 College Road Fairbanks, Alaska 99701

Telephone 907 452 1241

PROJ. NO: 862203

DRAWN BY: IAL

DATE: 2/3/2023

FIG.

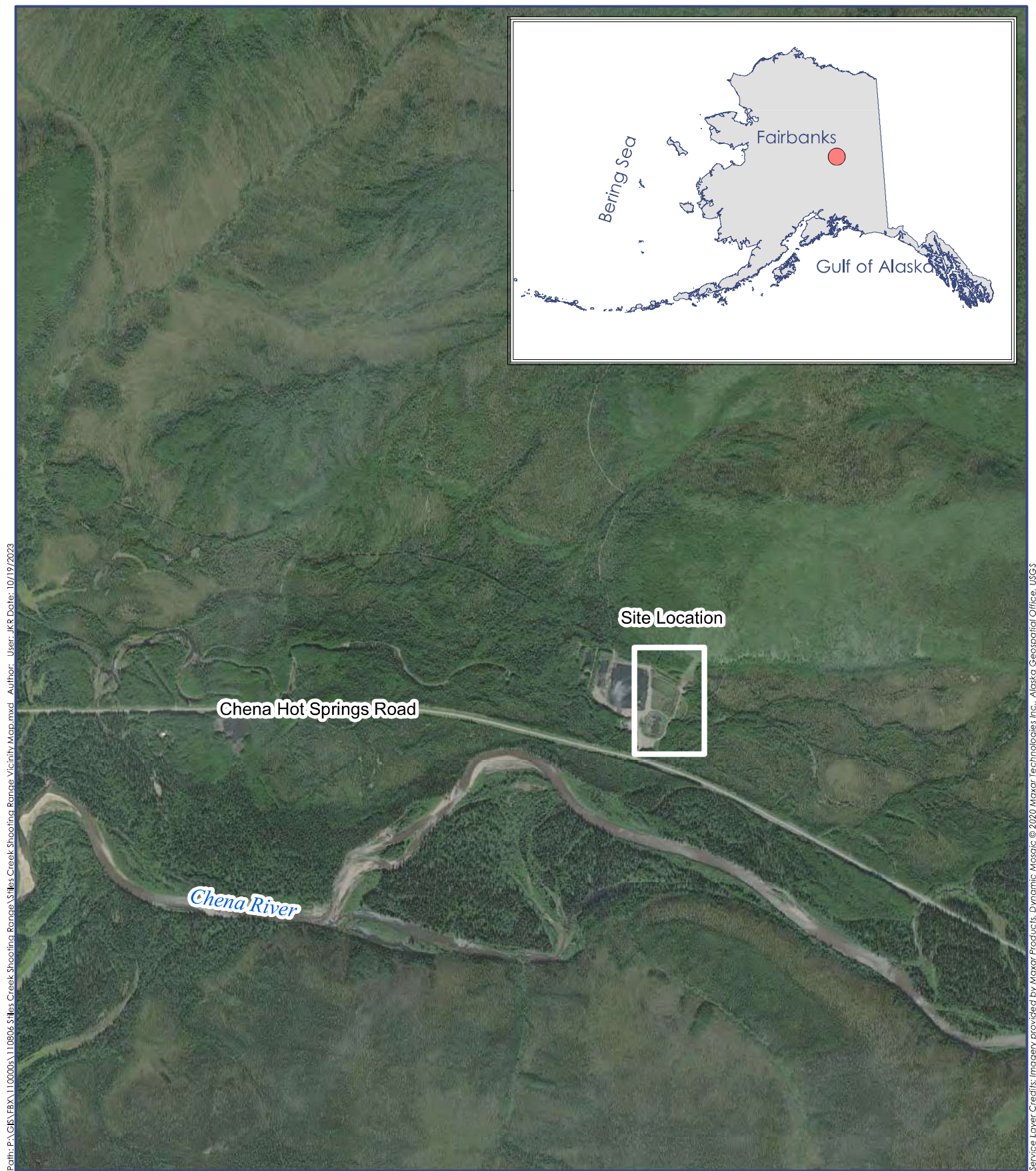




SUBMITTED TO:  
Design Alaska, Inc.  
601 College Road  
Fairbanks, AK 99701

BY:  
Shannon & Wilson  
2355 Hill Rd.  
Fairbanks, AK 99709  
  
(907) 479-0600  
[www.shannonwilson.com](http://www.shannonwilson.com)

LEAD ASSESSMENT SUMMARY REPORT  
**Milepost 36.4 Shooting Range  
Improvements Project**  
FAIRBANKS, ALASKA

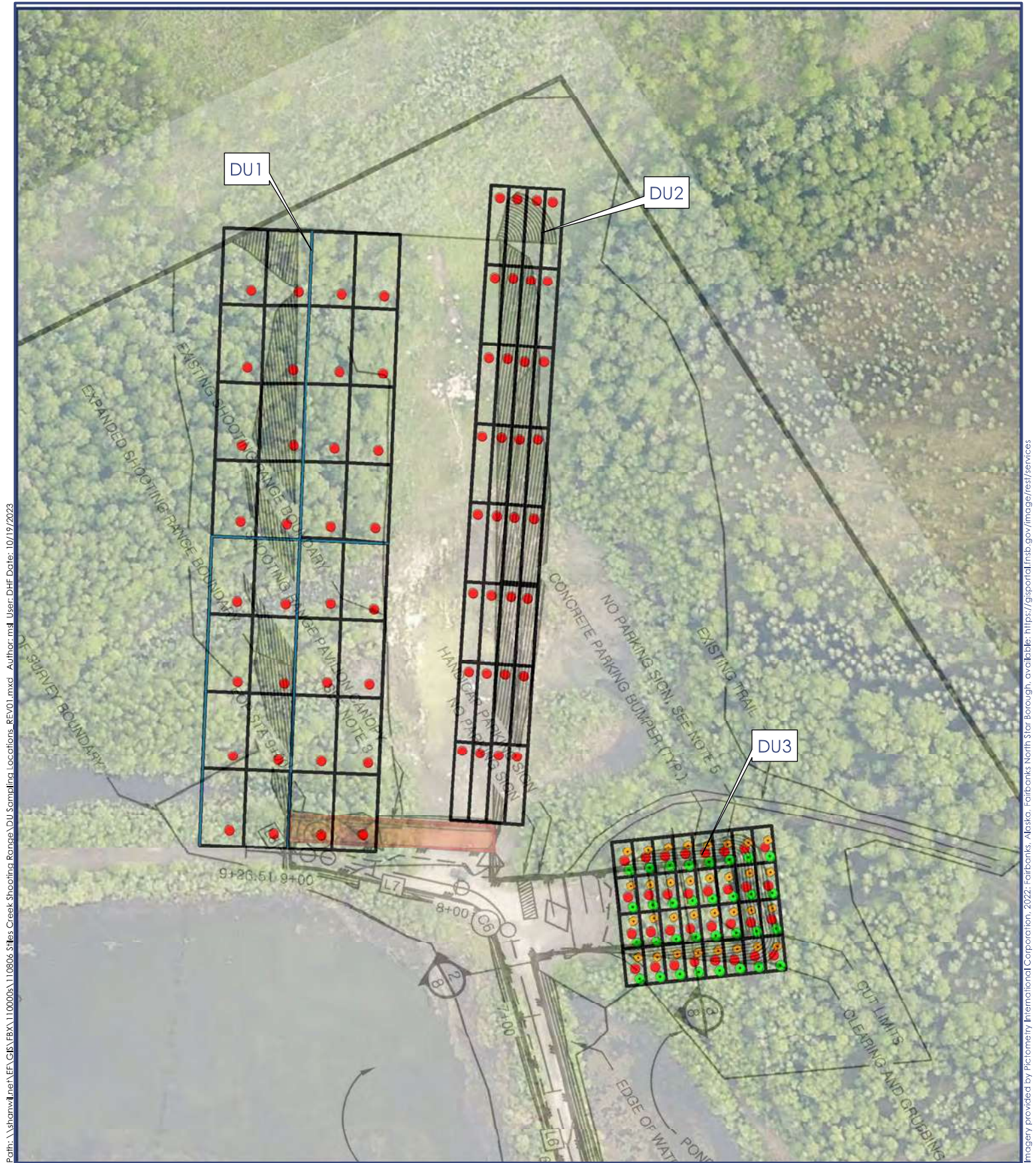


Path: P:\GIS\FBX\110806\Stiles Creek Shooting Range Vicinity Map.mxd Author: User: JKR Date: 10/19/2023

Service Layer Credits: Imagery provided by Maxar Products, Dynamic Mosaic © 2020 Maxar Technologies Inc., Alaska Geospatial Office, USGS



October 2023  
**VICINITY MAP**  
Figure 1



Path: \\shannonwilson\Projects\110806 Stiles Creek Shooting Range\DU Sampling Locations REV01.mxd Author: msj User: DHF Date: 10/19/2023

Imagery provided by Pictometry International Corporation, 2022; Fairbanks, Alaska, Fairbanks North Star Borough, available: <https://gisportal.nstb.gov/image/rest/services>

October 2023

ISM SAMPLE LOCATIONS

Figure 2

**Table 1 - Lead ISM Sample Results**

| Analytical Method | Analyte    | DEC              |       | SC23 - ISM03 |              |         |           |       |
|-------------------|------------|------------------|-------|--------------|--------------|---------|-----------|-------|
|                   |            | Regulatory Limit | Units | SC23 - ISM01 | SC23 - ISM02 | Primary | Duplicate | CV    |
| EPA 6020          | Total Lead | 400              | mg/kg | 18.5         | 161          | 10.6    | 9.43      | 0.072 |
|                   |            |                  |       |              |              | 10.8    |           | 11.5  |

Notes: Results reported from SGS Laboratory Work Order 1234625.  
Regulatory limits from 18 AAC 75.341 Table B1 Method Two - Soil Cleanup Levels Table (Under 40 Inch Zone; Human Health).  
DEC Alaska Department of Environmental Conservation  
EPA U.S. Environmental Protection Agency  
mg/kg milligrams per kilogram

## Laboratory Qualifiers

Enclosed are the analytical results associated with the above work order. The results apply to the samples as received. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the context or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry & Microbiology) & 17-021 (CS) for ADEC and 2944.01 for DOD ELAP/ISO17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020B, 7470A, 7471B, 8015C, 8021B, 8082A, 8260D, 8270D, 8270D-SIM, 9040C, 9045D, 9056A, 9060A, AK101 and AK102/103). SGS is only certified for the analytes listed on our Drinking Water Certification (DW methods: 200.8, 2130B, 2320B, 2510B, 300.0, 4500-CN-C,E, 4500-H-B, 4500-NO3-F, 4500-P-E and 524.2) and only those analytes will be reported to the State of Alaska for compliance. Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities.

The following descriptors or qualifiers may be found in your report:

|                    |                                                                         |
|--------------------|-------------------------------------------------------------------------|
| *                  | The analyte has exceeded allowable regulatory or control limits.        |
| !                  | Surrogate out of control limits.                                        |
| B                  | Indicates the analyte is found in a blank associated with the sample.   |
| CCV/CVA/CVB        | Continuing Calibration Verification                                     |
| CCCV/CVC/CVCA/CVCB | Closing Continuing Calibration Verification                             |
| CL                 | Control Limit                                                           |
| DF                 | Analytical Dilution Factor                                              |
| DL                 | Detection Limit (i.e., maximum method detection limit)                  |
| E                  | The analyte result is above the calibrated range.                       |
| GT                 | Greater Than                                                            |
| IB                 | Instrument Blank                                                        |
| ICV                | Initial Calibration Verification                                        |
| J                  | The quantitation is an estimation.                                      |
| LCS(D)             | Laboratory Control Spike (Duplicate)                                    |
| LLQC/LLIQC         | Low Level Quantitation Check                                            |
| LOD                | Limit of Detection (i.e., 1/2 of the LOQ)                               |
| LOQ                | Limit of Quantitation (i.e., reporting or practical quantitation limit) |
| LT                 | Less Than                                                               |
| MB                 | Method Blank                                                            |
| MS(D)              | Matrix Spike (Duplicate)                                                |
| ND                 | Indicates the analyte is not detected.                                  |
| RPD                | Relative Percent Difference                                             |
| TNTC               | Too Numerous To Count                                                   |
| U                  | Indicates the analyte was analyzed for but not detected.                |

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content. All DRO/RRO analyses are integrated per SOP.

## Sample Summary

| <u>Client Sample ID</u> | <u>Lab Sample ID</u> | <u>Collected</u> | <u>Received</u> | <u>Matrix</u>           |
|-------------------------|----------------------|------------------|-----------------|-------------------------|
| SC23 - ISM01            | 1234625001           | 08/23/2023       | 08/29/2023      | Soil/Solid (dry weight) |
| SC23 - ISM02            | 1234625002           | 08/23/2023       | 08/29/2023      | Soil/Solid (dry weight) |
| SC23 - ISM03            | 1234625003           | 08/23/2023       | 08/29/2023      | Soil/Solid (dry weight) |
| SC23 - ISM13            | 1234625004           | 08/23/2023       | 08/29/2023      | Soil/Solid (dry weight) |
| SC23 - ISM23            | 1234625005           | 08/23/2023       | 08/29/2023      | Soil/Solid (dry weight) |

| <u>Method</u>          | <u>Method Description</u> |
|------------------------|---------------------------|
| SW6020B                | Metals by ICP-MS (S)      |
| MI-ITRC ISM (Feb 2012) | MI Sampling/Sieving       |
| SM21 2540G             | Percent Solids SM2540G    |

Print Date: 09/20/2023 4:53:35PM

## Detectable Results Summary

Client Sample ID: **SC23 - ISM01**

Lab Sample ID: 1234625001

**ITRC Incremental Samp Method (2012)**  
**Metals by ICP/MS**

| <u>Parameter</u>               | <u>Result</u> | <u>Units</u> |
|--------------------------------|---------------|--------------|
| Multi-Incremental Sub Sampling | 0.00          |              |
| Lead                           | 18.5          | mg/kg        |

Client Sample ID: **SC23 - ISM02**

Lab Sample ID: 1234625002

**ITRC Incremental Samp Method (2012)**  
**Metals by ICP/MS**

| <u>Parameter</u>               | <u>Result</u> | <u>Units</u> |
|--------------------------------|---------------|--------------|
| Multi-Incremental Sub Sampling | 0.00          |              |
| Lead                           | 161           | mg/kg        |

Client Sample ID: **SC23 - ISM03**

Lab Sample ID: 1234625003

**ITRC Incremental Samp Method (2012)**  
**Metals by ICP/MS**

| <u>Parameter</u>               | <u>Result</u> | <u>Units</u> |
|--------------------------------|---------------|--------------|
| Multi-Incremental Sub Sampling | 0.00          |              |
| Lead                           | 10.6          | mg/kg        |

Client Sample ID: **SC23 - ISM13**

Lab Sample ID: 1234625004

**ITRC Incremental Samp Method (2012)**  
**Metals by ICP/MS**

| <u>Parameter</u>               | <u>Result</u> | <u>Units</u> |
|--------------------------------|---------------|--------------|
| Multi-Incremental Sub Sampling | 0.00          |              |
| Lead                           | 9.43          | mg/kg        |

Client Sample ID: **SC23 - ISM23**

Lab Sample ID: 1234625005

**ITRC Incremental Samp Method (2012)**  
**Metals by ICP/MS**

| <u>Parameter</u>               | <u>Result</u> | <u>Units</u> |
|--------------------------------|---------------|--------------|
| Multi-Incremental Sub Sampling | 0.00          |              |
| Lead                           | 10.8          | mg/kg        |

## Results of **SC23 - ISM01**

Client Sample ID: **SC23 - ISM01**  
 Client Project ID: **110806-001 Stiles Creek Range**  
 Lab Sample ID: 1234625001  
 Lab Project ID: 1234625

Collection Date: 08/23/23 09:00  
 Received Date: 08/29/23 09:53  
 Matrix: Soil/Solid (dry weight)  
 Solids (%):72.3  
 Location:

## Results by **ITRC Incremental Samp Method (2012)**

### Parameter

Multi-Incremental Sub Sampling

### Date Analyzed

08/30/23 09:52

## Batch Information

Analytical Batch: SPT11891  
 Analytical Method: MI-ITRC ISM (Feb 2012)  
 Analyst: KNT  
 Analytical Date/Time: 08/30/23 09:52  
 Container ID: 1234625001-A

## Results of SC23 - ISM01

Client Sample ID: **SC23 - ISM01**  
 Client Project ID: **110806-001 Stiles Creek Range**  
 Lab Sample ID: 1234625001  
 Lab Project ID: 1234625

Collection Date: 08/23/23 09:00  
 Received Date: 08/29/23 09:53  
 Matrix: Soil/Solid (dry weight)  
 Solids (%):72.3  
 Location:

## Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>LOD</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|---------------|-------------|---------------|-----------|------------|--------------|-----------|-------------------------|----------------------|
| Lead             | 18.5          |             | 0.0266        | 0.00824   | 0.0133     | mg/kg        | 10        |                         | 09/14/23 18:11       |

## Batch Information

Analytical Batch: MMS12065  
 Analytical Method: SW6020B  
 Analyst: HGS  
 Analytical Date/Time: 09/14/23 18:11  
 Container ID: 1234625001-A

Prep Batch: MXX36133  
 Prep Method: SW3050B  
 Prep Date/Time: 08/29/23 15:39  
 Prep Initial Wt./Vol.: 10.415 g  
 Prep Extract Vol: 50 mL

## Results of SC23 - ISM02

Client Sample ID: **SC23 - ISM02**  
 Client Project ID: **110806-001 Stiles Creek Range**  
 Lab Sample ID: 1234625002  
 Lab Project ID: 1234625

Collection Date: 08/23/23 09:15  
 Received Date: 08/29/23 09:53  
 Matrix: Soil/Solid (dry weight)  
 Solids (%):61.8  
 Location:

## Results by ITRC Incremental Samp Method (2012)

### Parameter

Multi-Incremental Sub Sampling

### Date Analyzed

08/30/23 09:52

## Batch Information

Analytical Batch: SPT11891  
 Analytical Method: MI-ITRC ISM (Feb 2012)  
 Analyst: KNT  
 Analytical Date/Time: 08/30/23 09:52  
 Container ID: 1234625002-A

## Results of SC23 - ISM02

Client Sample ID: **SC23 - ISM02**  
 Client Project ID: **110806-001 Stiles Creek Range**  
 Lab Sample ID: 1234625002  
 Lab Project ID: 1234625

Collection Date: 08/23/23 09:15  
 Received Date: 08/29/23 09:53  
 Matrix: Soil/Solid (dry weight)  
 Solids (%):61.8  
 Location:

## Results by Metals by ICP/MS

| Parameter | Result | Qual | LOQ/CL | DL     | LOD    | Units | DF | Allowable Limits | Date Analyzed  |
|-----------|--------|------|--------|--------|--------|-------|----|------------------|----------------|
| Lead      | 161    |      | 0.153  | 0.0475 | 0.0765 | mg/kg | 50 |                  | 09/18/23 20:57 |

## Batch Information

Analytical Batch: MMS12069  
 Analytical Method: SW6020B  
 Analyst: HGS  
 Analytical Date/Time: 09/18/23 20:57  
 Container ID: 1234625002-A

Prep Batch: MXX36133  
 Prep Method: SW3050B  
 Prep Date/Time: 08/29/23 15:39  
 Prep Initial Wt./Vol.: 10,553 g  
 Prep Extract Vol: 50 mL

## Results of SC23 - ISM03

Client Sample ID: **SC23 - ISM03**  
 Client Project ID: **110806-001 Stiles Creek Range**  
 Lab Sample ID: 1234625003  
 Lab Project ID: 1234625

Collection Date: 08/23/23 12:05  
 Received Date: 08/29/23 09:53  
 Matrix: Soil/Solid (dry weight)  
 Solids (%):85.2  
 Location:

## Results by ITRC Incremental Samp Method (2012)

### Parameter

Multi-Incremental Sub Sampling

### Date Analyzed

08/31/23 10:07

## Batch Information

Analytical Batch: SPT11893  
 Analytical Method: MI-ITRC ISM (Feb 2012)  
 Analyst: KNT  
 Analytical Date/Time: 08/31/23 10:07  
 Container ID: 1234625003-A

## Results of SC23 - ISM03

Client Sample ID: **SC23 - ISM03**  
 Client Project ID: **110806-001 Stiles Creek Range**  
 Lab Sample ID: 1234625003  
 Lab Project ID: 1234625

Collection Date: 08/23/23 12:05  
 Received Date: 08/29/23 09:53  
 Matrix: Soil/Solid (dry weight)  
 Solids (%):85.2  
 Location:

## Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>LOD</u> | <u>Units</u> | <u>DF</u> | <u>Allowable</u><br><u>Limits</u> | <u>Date Analyzed</u> |
|------------------|---------------|-------------|---------------|-----------|------------|--------------|-----------|-----------------------------------|----------------------|
| Lead             | 10.6          |             | 0.225         | 0.0699    | 0.113      | mg/kg        | 10        |                                   | 09/06/23 20:17       |

## Batch Information

Analytical Batch: MMS12058  
 Analytical Method: SW6020B  
 Analyst: HGS  
 Analytical Date/Time: 09/06/23 20:17  
 Container ID: 1234625003-C

Prep Batch: MXX36145  
 Prep Method: SW3050B  
 Prep Date/Time: 09/01/23 12:16  
 Prep Initial Wt./Vol.: 10.408 g  
 Prep Extract Vol: 500 mL

## Results of **SC23 - ISM13**

Client Sample ID: **SC23 - ISM13**  
 Client Project ID: **110806-001 Stiles Creek Range**  
 Lab Sample ID: 1234625004  
 Lab Project ID: 1234625

Collection Date: 08/23/23 11:55  
 Received Date: 08/29/23 09:53  
 Matrix: Soil/Solid (dry weight)  
 Solids (%):84.2  
 Location:

## Results by **ITRC Incremental Samp Method (2012)**

### Parameter

Multi-Incremental Sub Sampling

### Date Analyzed

08/31/23 10:07

### **Batch Information**

Analytical Batch: SPT11893  
 Analytical Method: MI-ITRC ISM (Feb 2012)  
 Analyst: KNT  
 Analytical Date/Time: 08/31/23 10:07  
 Container ID: 1234625004-A

## Results of SC23 - ISM13

Client Sample ID: **SC23 - ISM13**  
 Client Project ID: **110806-001 Stiles Creek Range**  
 Lab Sample ID: 1234625004  
 Lab Project ID: 1234625

Collection Date: 08/23/23 11:55  
 Received Date: 08/29/23 09:53  
 Matrix: Soil/Solid (dry weight)  
 Solids (%):84.2  
 Location:

## Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>LOD</u> | <u>Units</u> | <u>DF</u> | <u>Allowable</u><br><u>Limits</u> | <u>Date Analyzed</u> |
|------------------|---------------|-------------|---------------|-----------|------------|--------------|-----------|-----------------------------------|----------------------|
| Lead             | 9.43          |             | 0.231         | 0.0715    | 0.116      | mg/kg        | 10        |                                   | 09/06/23 20:25       |

## Batch Information

Analytical Batch: MMS12058  
 Analytical Method: SW6020B  
 Analyst: HGS  
 Analytical Date/Time: 09/06/23 20:25  
 Container ID: 1234625004-C

Prep Batch: MXX36145  
 Prep Method: SW3050B  
 Prep Date/Time: 09/01/23 12:16  
 Prep Initial Wt./Vol.: 10.297 g  
 Prep Extract Vol: 500 mL

## Results of SC23 - ISM23

Client Sample ID: **SC23 - ISM23**  
 Client Project ID: **110806-001 Stiles Creek Range**  
 Lab Sample ID: 1234625005  
 Lab Project ID: 1234625

Collection Date: 08/23/23 11:45  
 Received Date: 08/29/23 09:53  
 Matrix: Soil/Solid (dry weight)  
 Solids (%):85.6  
 Location:

## Results by ITRC Incremental Samp Method (2012)

### Parameter

Multi-Incremental Sub Sampling

### Date Analyzed

08/31/23 10:07

## Batch Information

Analytical Batch: SPT11893  
 Analytical Method: MI-ITRC ISM (Feb 2012)  
 Analyst: KNT  
 Analytical Date/Time: 08/31/23 10:07  
 Container ID: 1234625005-A

## Results of SC23 - ISM23

Client Sample ID: **SC23 - ISM23**  
 Client Project ID: **110806-001 Stiles Creek Range**  
 Lab Sample ID: 1234625005  
 Lab Project ID: 1234625

Collection Date: 08/23/23 11:45  
 Received Date: 08/29/23 09:53  
 Matrix: Soil/Solid (dry weight)  
 Solids (%):85.6  
 Location:

## Results by Metals by ICP/MS

| Parameter | Result | Qual | LOQ/CL | DL     | LOD   | Units | DF | Allowable Limits | Date Analyzed  |
|-----------|--------|------|--------|--------|-------|-------|----|------------------|----------------|
| Lead      | 10.8   |      | 0.221  | 0.0685 | 0.111 | mg/kg | 10 |                  | 09/06/23 20:28 |

## Batch Information

Analytical Batch: MMS12058  
 Analytical Method: SW6020B  
 Analyst: HGS  
 Analytical Date/Time: 09/06/23 20:28  
 Container ID: 1234625005-C

Prep Batch: MXX36145  
 Prep Method: SW3050B  
 Prep Date/Time: 09/01/23 12:16  
 Prep Initial Wt./Vol.: 10,569 g  
 Prep Extract Vol: 500 mL

## Method Blank

Blank ID: MB for HBN 1863421 [MXX/36133]  
Blank Lab ID: 1731207

Matrix: Soil/Solid (dry weight)

QC for Samples:  
1234625001, 1234625002

## Results by SW6020B

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>LOD</u> | <u>Units</u> |
|------------------|----------------|---------------|-----------|------------|--------------|
| Lead             | 0.100U         | 0.200         | 0.0620    | 0.100      | mg/kg        |

## Batch Information

Analytical Batch: MMS12050  
Analytical Method: SW6020B  
Instrument: P7 Agilent 7800  
Analyst: HGS  
Analytical Date/Time: 8/30/2023 5:07:00PM

Prep Batch: MXX36133  
Prep Method: SW3050B  
Prep Date/Time: 8/29/2023 3:39:08PM  
Prep Initial Wt./Vol.: 1 g  
Prep Extract Vol: 50 mL

Print Date: 09/20/2023 4:53:41PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1234625 [MXX36133]  
 Blank Spike Lab ID: 1731208  
 Date Analyzed: 08/30/2023 17:10

Matrix: Soil/Solid (dry weight)

QC for Samples: 1234625001, 1234625002

Results by SW6020B

| Blank Spike (mg/kg) |       |        |         |            |
|---------------------|-------|--------|---------|------------|
| Parameter           | Spike | Result | Rec (%) | CL         |
| Lead                | 50    | 50.8   | 102     | ( 84-118 ) |

Batch Information

Analytical Batch: MMS12050  
 Analytical Method: SW6020B  
 Instrument: P7 Agilent 7800  
 Analyst: HGS

Prep Batch: MXX36133  
 Prep Method: SW3050B  
 Prep Date/Time: 08/29/2023 15:39  
 Spike Init Wt./Vol.: 50 mg/kg    Extract Vol: 50 mL  
 Dupe Init Wt./Vol.:        Extract Vol:

## Matrix Spike Summary

Original Sample ID: 1731209  
MS Sample ID: 1731212 MS  
MSD Sample ID: 1731213 MSD

Analysis Date: 09/18/2023 17:21  
Analysis Date: 09/18/2023 17:23  
Analysis Date: 09/18/2023 17:35  
Matrix: Solid/Soil (Wet Weight)

QC for Samples: 1234625001, 1234625002

## Results by SW6020B

| Parameter | Sample | Matrix Spike (mg/kg) |        |         | Spike Duplicate (mg/kg) |        |         | CL     | RPD (%) | RPD CL  |
|-----------|--------|----------------------|--------|---------|-------------------------|--------|---------|--------|---------|---------|
|           |        | Spike                | Result | Rec (%) | Spike                   | Result | Rec (%) |        |         |         |
| Lead      | 2.87   | 47.3                 | 50.6   | 101     | 48.4                    | 51.4   | 100     | 84-118 | 1.69    | (< 20 ) |

## Batch Information

Analytical Batch: MMS12069  
Analytical Method: SW6020B  
Instrument: P7 Agilent 7800  
Analyst: HGS  
Analytical Date/Time: 9/18/2023 5:23:00PM

Prep Batch: MXX36133  
Prep Method: Soils/Solids Digest for Metals by ICP-MS  
Prep Date/Time: 8/29/2023 3:39:08PM  
Prep Initial Wt./Vol.: 1.06g  
Prep Extract Vol: 50.00mL

Print Date: 09/20/2023 4:53:44PM



#### Method Blank

Blank ID: MB for HBN 1863590 [MXX/36145]  
Blank Lab ID: 1732019

Matrix: Soil/Solid (dry weight)

QC for Samples:  
1234625003, 1234625004, 1234625005

#### Results by SW6020B

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>LOD</u> | <u>Units</u> |
|------------------|----------------|---------------|-----------|------------|--------------|
| Lead             | 0.100U         | 0.200         | 0.0620    | 0.100      | mg/kg        |

#### Batch Information

Analytical Batch: MMS12058  
Analytical Method: SW6020B  
Instrument: P7 Agilent 7800  
Analyst: HGS  
Analytical Date/Time: 9/6/2023 3:29:00PM

Prep Batch: MXX36145  
Prep Method: SW3050B  
Prep Date/Time: 9/1/2023 12:16:00PM  
Prep Initial Wt./Vol.: 1 g  
Prep Extract Vol: 50 mL

Print Date: 09/20/2023 4:53:46PM

## Blank Spike Summary

Blank Spike ID: LCS for HBN 1234625 [MXX36145]

Blank Spike Lab ID: 1732020

Date Analyzed: 09/06/2023 15:32

Matrix: Soil/Solid (dry weight)

QC for Samples: 1234625003, 1234625004, 1234625005

## Results by SW6020B

| Parameter | Blank Spike (mg/kg) |               |                | CL         |
|-----------|---------------------|---------------|----------------|------------|
|           | <u>Spike</u>        | <u>Result</u> | <u>Rec (%)</u> |            |
| Lead      | 50                  | 48.4          | 97             | ( 84-118 ) |

## Batch Information

Analytical Batch: MMS12058

Analytical Method: SW6020B

Instrument: P7 Agilent 7800

Analyst: HGS

Prep Batch: MXX36145

Prep Method: SW3050B

Prep Date/Time: 09/01/2023 12:16

Spike Init Wt./Vol.: 50 mg/kg Extract Vol: 50 mL

Dupe Init Wt./Vol.: Extract Vol:

## Matrix Spike Summary

Original Sample ID: 1732021  
MS Sample ID: 1732022 MS  
MSD Sample ID: 1732023 MSD

Analysis Date: 09/06/2023 15:34  
Analysis Date: 09/06/2023 15:37  
Analysis Date: 09/06/2023 15:39  
Matrix: Solid/Soil (Wet Weight)

QC for Samples: 1234625003, 1234625004, 1234625005

## Results by SW6020B

| Parameter | Sample | Matrix Spike (mg/kg) |        |         | Spike Duplicate (mg/kg) |        |         | CL     | RPD (%) | RPD CL  |
|-----------|--------|----------------------|--------|---------|-------------------------|--------|---------|--------|---------|---------|
|           |        | Spike                | Result | Rec (%) | Spike                   | Result | Rec (%) |        |         |         |
| Lead      | 8.57   | 49.1                 | 56.6   | 98      | 49.6                    | 56.3   | 96      | 84-118 | 0.66    | (< 20 ) |

## Batch Information

Analytical Batch: MMS12058  
Analytical Method: SW6020B  
Instrument: P7 Agilent 7800  
Analyst: HGS  
Analytical Date/Time: 9/6/2023 3:37:00PM

Prep Batch: MXX36145  
Prep Method: Soils/Solids Digest for Metals by ICP-MS  
Prep Date/Time: 9/1/2023 12:16:00PM  
Prep Initial Wt./Vol.: 1.02g  
Prep Extract Vol: 50.00mL

Print Date: 09/20/2023 4:53:51PM

## Method Blank

Blank ID: MB for HBN 1863455 [SPT/11892]  
Blank Lab ID: 1731357

Matrix: Soil/Solid (dry weight)

QC for Samples:  
1234625001, 1234625002

## Results by SM21 2540G

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>LOD</u> | <u>Units</u> |
|------------------|----------------|---------------|-----------|------------|--------------|
| Total Solids     | 100            |               |           |            | %            |

## Batch Information

Analytical Batch: SPT11892  
Analytical Method: SM21 2540G  
Instrument:  
Analyst: LJC  
Analytical Date/Time: 8/29/2023 6:49:00PM

Print Date: 09/20/2023 4:53:56PM

## Duplicate Sample Summary

Original Sample ID: 1234614019

Duplicate Sample ID: 1731362

QC for Samples:

Analysis Date: 08/29/2023 18:49

Matrix: Soil/Solid (dry weight)

## Results by SM21 2540G

| <u>NAME</u>  | <u>Original</u> | <u>Duplicate</u> | <u>Units</u> | <u>RPD (%)</u> | <u>RPD CL</u> |
|--------------|-----------------|------------------|--------------|----------------|---------------|
| Total Solids | 89.0            | 88.8             | %            | 0.29           | (< 15 )       |

## Batch Information

Analytical Batch: SPT11892

Analytical Method: SM21 2540G

Instrument:

Analyst: LJC

Print Date: 09/20/2023 4:53:58PM

## Duplicate Sample Summary

Original Sample ID: 1234619007

Duplicate Sample ID: 1731363

QC for Samples:

1234625001, 1234625002

Analysis Date: 08/29/2023 18:49

Matrix: Soil/Solid (dry weight)

## Results by SM21 2540G

| <u>NAME</u>  | <u>Original</u> | <u>Duplicate</u> | <u>Units</u> | <u>RPD (%)</u> | <u>RPD CL</u> |
|--------------|-----------------|------------------|--------------|----------------|---------------|
| Total Solids | 82.3            | 80.6             | %            | 2.10           | (< 15 )       |

## Batch Information

Analytical Batch: SPT11892

Analytical Method: SM21 2540G

Instrument:

Analyst: LJC

Print Date: 09/20/2023 4:53:58PM

## Method Blank

Blank ID: MB for HBN 1863522 [SPT/11894]  
Blank Lab ID: 1731737

Matrix: Soil/Solid (dry weight)

QC for Samples:  
1234625003, 1234625004, 1234625005

## Results by SM21 2540G

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>LOD</u> | <u>Units</u> |
|------------------|----------------|---------------|-----------|------------|--------------|
| Total Solids     | 99.9           |               |           |            | %            |

## Batch Information

Analytical Batch: SPT11894  
Analytical Method: SM21 2540G  
Instrument:  
Analyst: APS  
Analytical Date/Time: 8/30/2023 6:49:00PM

Print Date: 09/20/2023 4:54:06PM

## Duplicate Sample Summary

Original Sample ID: 1234647002

Duplicate Sample ID: 1731738

QC for Samples:

1234625003, 1234625004, 1234625005

Analysis Date: 08/30/2023 18:49

Matrix: Soil/Solid (dry weight)

## Results by SM21 2540G

| <u>NAME</u>  | <u>Original</u> | <u>Duplicate</u> | <u>Units</u> | <u>RPD (%)</u> | <u>RPD CL</u> |
|--------------|-----------------|------------------|--------------|----------------|---------------|
| Total Solids | 92.0            | 92.2             | %            | 0.19           | (< 15 )       |

## Batch Information

Analytical Batch: SPT11894

Analytical Method: SM21 2540G

Instrument:

Analyst: APS

Print Date: 09/20/2023 4:54:08PM

# **APPENDIX E**

## **MASTER MATERIAL CERTIFICATION**

### **LIST (MCL)**



# MATERIALS CERTIFICATION LIST

| Specifications | Construction                 |                     |                          | Design             |                    |                     | Statewide                      | Manufacturer/<br>Remarks |
|----------------|------------------------------|---------------------|--------------------------|--------------------|--------------------|---------------------|--------------------------------|--------------------------|
|                | Approved<br>Products<br>List | Project<br>Engineer | QA/Materials<br>Engineer | Design<br>Engineer | Bridge<br>Engineer | Traffic<br>Engineer | State<br>Materials<br>Engineer |                          |

**Project Name** CHENA RIVER SRA: UPPER STILES CREEK SHOOTING RANGE IMPROVEMENTS

**Project Number** 70011-1

**Project Engineer Signature**

## 203 EXCAVATION AND EMBANKMENT

|                |          |  |  |  |  |  |  |  |
|----------------|----------|--|--|--|--|--|--|--|
| Borrow, Type A | 203-2.01 |  |  |  |  |  |  |  |
| Borrow, Type C | 203-2.01 |  |  |  |  |  |  |  |

## 301 AGGREGATE BASE COURSE, GRADING D-1

|                                    |          |  |  |  |  |  |  |  |
|------------------------------------|----------|--|--|--|--|--|--|--|
| Aggregate Base Course, Grading D-1 | 703-2.03 |  |  |  |  |  |  |  |
|------------------------------------|----------|--|--|--|--|--|--|--|

## 401 ASPHALT HOT MIX PAVEMENT

|                      |          |  |  |  |  |  |  |  |
|----------------------|----------|--|--|--|--|--|--|--|
| Mix Design           | 401-2.01 |  |  |  |  |  |  |  |
| Tack Coat            | 401-2.02 |  |  |  |  |  |  |  |
| Quality Control Plan | 401-2.03 |  |  |  |  |  |  |  |
| Joint Adhesive       | 401-2.04 |  |  |  |  |  |  |  |

## 603 CSP 18 INCH

|                     |          |  |  |  |  |  |  |  |
|---------------------|----------|--|--|--|--|--|--|--|
| CSP 18 Inch Culvert | 603-2.01 |  |  |  |  |  |  |  |
|---------------------|----------|--|--|--|--|--|--|--|

## 615 STANDARD SIGNS

|                        |           |  |  |  |  |  |  |  |
|------------------------|-----------|--|--|--|--|--|--|--|
| Sheet Aluminum         | 6.15-2.02 |  |  |  |  |  |  |  |
| Reflective Sheeting    | 6.15-2.02 |  |  |  |  |  |  |  |
| <u>Sign Posts</u>      |           |  |  |  |  |  |  |  |
| Perforated Steel Posts | 615-2.04  |  |  |  |  |  |  |  |
| Zinc Coating           | 615-2.05  |  |  |  |  |  |  |  |

## 618 SEEDING

|         |          |  |  |  |  |  |  |  |
|---------|----------|--|--|--|--|--|--|--|
| Seeding | 618-2.01 |  |  |  |  |  |  |  |
|---------|----------|--|--|--|--|--|--|--|

## 620 TOPSOIL

|         |          |  |  |  |  |  |  |  |
|---------|----------|--|--|--|--|--|--|--|
| Topsoil | 620-2.01 |  |  |  |  |  |  |  |
|---------|----------|--|--|--|--|--|--|--|

## 622 PARK FACILITIES

|                    |          |  |  |  |  |  |  |  |
|--------------------|----------|--|--|--|--|--|--|--|
| Concrete Fasteners | 622-2.10 |  |  |  |  |  |  |  |
|--------------------|----------|--|--|--|--|--|--|--|

| Specifications | Construction                 |                     |                          | Design             |                    |                     | Statewide                      | Manufacturer/<br>Remarks |
|----------------|------------------------------|---------------------|--------------------------|--------------------|--------------------|---------------------|--------------------------------|--------------------------|
|                | Approved<br>Products<br>List | Project<br>Engineer | QA/Materials<br>Engineer | Design<br>Engineer | Bridge<br>Engineer | Traffic<br>Engineer | State<br>Materials<br>Engineer |                          |

Shooting Range Bench  
Shooting Range Pavilion  
-Roof Sheathing  
-Lumber Nailers  
-Structural Steel  
-Fasteners  
-Concrete  
-Reinforcing Steel  
-Post-Installed Anchors  
-Roof Flashing  
-Paint  
-Asphalt Shingle Roofing  
-Steel Coating  
-Acoustic Panels

|                  |  |  |  |  |  |  |  |  |
|------------------|--|--|--|--|--|--|--|--|
| 622-2.12         |  |  |  |  |  |  |  |  |
| Plans            |  |  |  |  |  |  |  |  |
| Plans - Sheet 11 |  |  |  |  |  |  |  |  |
| Plans - Sheet 11 |  |  |  |  |  |  |  |  |
| Plans - Sheet 11 |  |  |  |  |  |  |  |  |
| Plans - Sheet 11 |  |  |  |  |  |  |  |  |
| Plans - Sheet 12 |  |  |  |  |  |  |  |  |
| Plans - Sheet 12 |  |  |  |  |  |  |  |  |
| Plans - Sheet 12 |  |  |  |  |  |  |  |  |
| Plans - Sheet 16 |  |  |  |  |  |  |  |  |
| Plans - Sheet 16 |  |  |  |  |  |  |  |  |
| Plans - Sheet 16 |  |  |  |  |  |  |  |  |
| Plans - Sheet 16 |  |  |  |  |  |  |  |  |
| Plans - Sheet 16 |  |  |  |  |  |  |  |  |

#### 641 EROSION, SEDIMENT, AND POLLUTION CONTROL

BMP Materials

|          |  |  |  |  |  |  |  |  |
|----------|--|--|--|--|--|--|--|--|
| 641-2.04 |  |  |  |  |  |  |  |  |
|----------|--|--|--|--|--|--|--|--|

#### 643 TRAFFIC CONTROL DEVICES

Traffic Control Devices

|          |  |  |  |  |  |  |  |  |
|----------|--|--|--|--|--|--|--|--|
| 643-3.02 |  |  |  |  |  |  |  |  |
|----------|--|--|--|--|--|--|--|--|

#### 670 PAINTED TRAFFIC MARKINGS

Pavement Markings

|          |  |  |  |  |  |  |  |  |
|----------|--|--|--|--|--|--|--|--|
| 708-2.03 |  |  |  |  |  |  |  |  |
|----------|--|--|--|--|--|--|--|--|