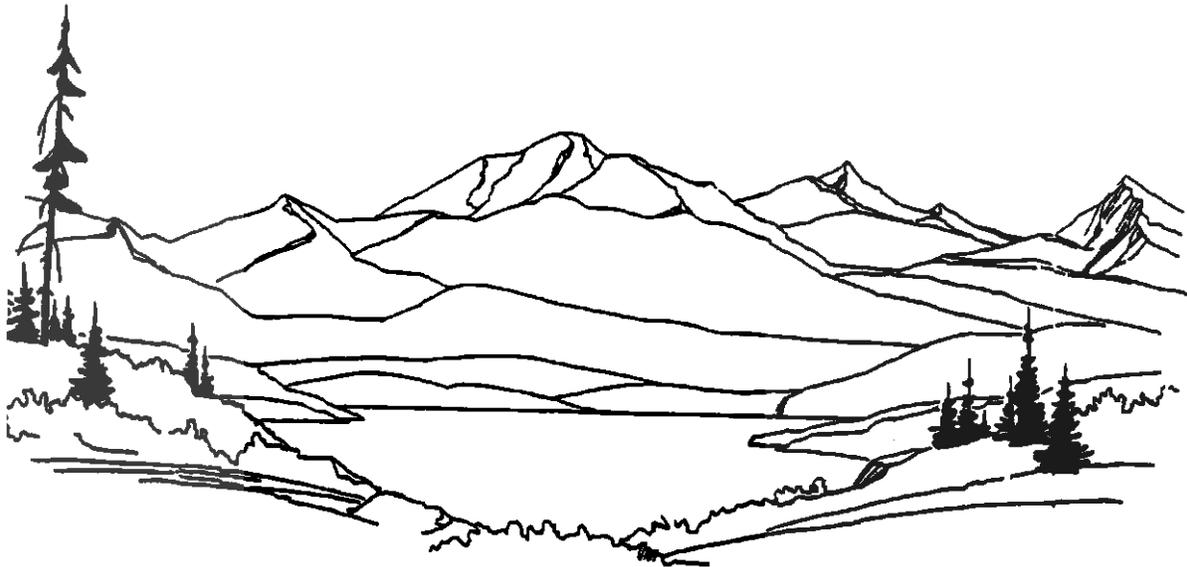


**STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES**

**DIVISION OF PARKS
AND
OUTDOOR RECREATION**



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

**DIVISION OF FORESTRY
STANDARD CREEK MATERIAL SITE &
FORTUNE CREEK BRIDGE
REPLACEMENT
PROJECT NO. 39030-1**

COPY NO. _____

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



STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

INVITATION FOR BIDS
for Construction Contract

Date May 24, 2016

Standard Creek Material Site & Fortune Creek Bridge Replacement Project No. 39030-1

Project Name and Number

Location of Project: Fairbanks, AK
Contracting Officer: Rys Miranda, DNR Procurement Officer
Issuing Office: Design & Construction Section, Division of Parks and Outdoor Recreation

State Funded Federal Aid

Description of Work:

Work under this contract includes the excavation, removal of existing culverts, installation of culverts, subgrade modification, geotextile placement, development of a material site near Standard Creek, placement of rock fill from developed material site. Also included in the contract is the removal and disposal of an existing bridge and abutments, installation of a modular bridge and abutments, placement of riprap, and signs at Fortune Creek.

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 September 2, 2016.
Interim Completion dates, if applicable, will be shown in the Special Provisions.

Bidders are invited to submit sealed bids, in single copy, for furnishing all labor, equipment, and materials and for performing all work for the project described above. Bids will be opened publicly at 2:00 PM local time, at 550 W. 7th Ave., Suite 1380; Anchorage, AK 99501 on the 14th of June 2016.

SUBMISSION OF BIDS

ALL BIDS INCLUDING ANY AMENDMENTS OR WITHDRAWALS MUST BE RECEIVED PRIOR TO BID OPENING. BIDS SHALL BE SUBMITTED ON THE FORMS FURNISHED AND MUST BE IN A SEALED ENVELOPE MARKED AS FOLLOWS:

<p>Bid for Project: Standard Creek Material Site & Fortune Creek Bridge Replacement Project No. 39030-1</p>	<p>ATTN: Design & Construction Section Division of Parks & Outdoor Recreation 550 W. 7th Ave., Suite 1380 Anchorage AK 99501</p>
--	--

Bids, amendments or withdrawals transmitted by mail must be received at the above specified address no later than 30 minutes prior to the scheduled time of bid opening. Hand-delivered bids, amendments or withdrawals must be received at the above specified address prior to the scheduled time of bid opening. Faxed bid amendments must be addressed to the above specific address. Fax number: (907) 269-8917.

A bid guaranty is required with each bid in the amount of 5% of the amount bid. (Alternate bid items as well as supplemental bid items appearing on the bid schedule shall be included as part of the total amount bid when determining the amount of bid guaranty required for the project.)

The Department hereby notifies all bidders that it will affirmatively insure that in any contract entered into pursuant to this Invitation, Disadvantaged Business Enterprises (DBEs) 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

Bidders are hereby notified that data to assist in preparing bids is available as follows:

SEE SPECIAL NOTICE TO BIDDERS

Plans and Specifications may be downloaded from: <http://dnr.alaska.gov/parks/designconstruct/bidcalresults.htm>
For additional information contact:

Kathleen Raynor
550 W. 7th Ave., Suite 1380
Anchorage AK 99501
Phone: (907) 269-8731

All questions relating to design features, constructability, quantities, or other technical aspects of the project should be directed to the following. Bidders requesting assistance in viewing the project must make arrangements at least 48 hours in advance with:

Jacob S. Gondek, P.E.
Project Manager
Fax: (907) 269-8917 Phone: (907) 269-8756 Email: jacob.gondek@alaska.gov

All questions concerning bidding procedures should be directed to:

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

Other Information:

Bid results are available approximately 30 minutes after each 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**. These items are available upon request in the Anchorage Department of Transportation and Public Facilities Building Plans Room located at 4111 Aviation Avenue:
 - a. **Standard Specifications for Highway Construction 2015. (\$25.00)** Available online at: http://www.dot.state.ak.us/stwddes/dcspsecs/pop_hwyspecs_english.shtml
 - b. **Alaska Test Methods Manual (Lab & Field), 2007 Edition. (\$25.00)** Available online at: http://www.dot.state.ak.us/stwddes/desmaterials/mat_waqtc/pop_testman.shtml
2. **Other Publications**. These items are available upon request from the Department of Natural Resources, Division of Parks & Outdoor Recreation, Design & Construction Section (DNR-DPOR-D&C) at 550 West 7th Avenue, Suite 1340, Anchorage, AK:
 - a. **Quantity Computations.**
3. **High Visibility Clothing**. The Department requires all workers within the project limits to wear an outer visible surface or layer of high visibility color and retroreflectivity. See subsection 643-3.11.
4. **Prevailing Wage Requirements**. The Lt. Governor certified the revised regulatory definition of "on-site" in 8 AAC 30.910 to clarify the scope of activities covered by Alaska's Little Davis Bacon Act (AS 36.05.010 - AS 36.05.110) as proposed by the Department of Labor and Workforce Development (DOLWD) proposed a. For a copy of the revised definition of 8 AAC 30.910, go to: <http://www.labor.alaska.gov/lss/2011-02-22-regs.pdf>

DOLWD will enforce the revised provisions on all projects with bid opening date on or after February 15, 2011. Prospective bidders on projects with a bid opening date on or after February 15, 2011, must consider the impact of the revised regulation and bid accordingly. DOLWD will not enforce the new "on-site" definition on projects with a bid opening date prior to February 15, 2011.



STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

REQUIRED DOCUMENTS
State Funded Contracts

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 Form (Form 25D-9DNR)**
 2. **Bid Schedule**
 3. **Bid Security (Form 25D-14DNR or Certified Check)**
 4. Any bid revisions must be submitted by the bidder prior to bid opening on the following form:
Bid Modification (Form 25D-16DNR)
-

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

1. **Subcontractor List (Form 25D-5DNR)**
-

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-10ADNR)**
2. **Payment Bond (Form 25D-12DNR)**
3. **Performance Bond (Form 25D-13DNR)**
4. **Contractor's Questionnaire (Form 25D-8DNR)**
5. **Certificate of Insurance (from carrier)**



STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

SUBCONTRACTOR LIST

Standard Creek Material Site & Fortune Creek Bridge Replacement Project No. 39030-1

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.

Failure to submit this form with all required information by the due date will result in the bidder being declared nonresponsive and may result in the forfeiture of 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 greater than 1/2 of 1% of the contract amount.

or
Subcontractor List is as follows:

LIST FIRST TIER SUBCONTRACTORS ONLY

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

CONTINUE SUBCONTRACTOR INFORMATION ON REVERSE

For projects with federal-aid funding, I hereby certify Alaska Business Licenses and Contractor registrations will be valid for all subcontractors prior to award of the subcontract. For projects without federal-aid funding (State funding only), I hereby certify the listed Alaska Business Licenses and Contractor's Registration 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 material necessary for this project?

NO YES If NO, explain:

C. EXPERIENCE

1. Have you had previous construction contracts or subcontracts with the State of Alaska?

NO YES If YES, explain:

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 & Title of Person Signing

Signature

Date



STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

BID FORM

for

Standard Creek Material Site & Fortune Creek Bridge Replacement Project No. 39030-1
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 for Bids dated May 24, 2016, 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 Anchorage, 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 Natural Resources 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 September 2, 2016, 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.

INSTRUCTIONS FOR ALASKA PRODUCTS PREFERENCE WORKSHEET

Special Notice: All procurements, except those funded from Federal sources, shall contain Contract provisions for the preference of Alaska products. To be considered for the Alaska Product Preference, each product listed by the Bidder on this worksheet must have current certification from the Alaska Products Preference Program at the time of Bid Opening. A product with expired certification at the bid opening date will not be considered eligible. Products that are not specified for use on the project will not be considered eligible. The Alaska Product Preference Program List of certified products is available online at: <http://www.commerce.state.ak.us/ded/dev/prodpref/prodprsf.htm>, or may be obtained by contacting the local DCED office or writing: Dept. of Commerce & Economic Development, Alaska Products Preference List, P.O. Box 110800, Juneau, Alaska 99811-0800.

BIDDERS INSTRUCTIONS:

- A. General.** The contracting Agency may request documentation to support entries made on this form. False presentations may be subject to AS 36.30.687. All Bidder's entries must conform to the requirements covering bid preparations in general. Discrepancies in price extensions shall be resolved by multiplying the declared total value times the preference percentage and adjusting any resulting computation(s) accordingly.
- B. Form Completion – BASIC BIDS.**
- (1) Enter project number and name, the words "Basic Bid" and the CONTRACTOR'S name in the heading of each page as provided.
 - (2) The Bidder shall compare those candidate products appearing on the preference listing (see Special Notice comments above) against the requirements of the technical specifications appearing in the contract documents. If the Bidder determines that a candidate product can suitably meet the contract requirements, then that product may be included in the worksheet as follows.
 - (3) For each suitable product submitted under the "Basic Bid" enter:
 - The product name, generic description and its corresponding technical specification section number under the heading "PRODUCT",
 - The company name of the Alaska producer under the heading "Manufacturer", and
 - The product class (I, II, or III) and preference percentage (3, 5, or 7% respectively) under the "CLASS/%" heading.
 - (4) For each product appearing on the list and to be utilized by the CONTRACTOR enter:
 - Under the heading "TOTAL DECLARED VALUE" the manufacturer's quoted price of the product, (caution: this value is to be the manufacturer's quoted price at the place of origin and shall not include costs for freight, handling or miscellaneous charges of incorporating the product into the Work,) and
 - The resulting preference – i.e. the preference percentage times the total declared value amount – under the heading "REDUCTION AMOUNT".
 - (5) Continue for all "suitable" basic bid products. If the listing exceeds one page enter the words "Page # __ SUB" in front of the word "TOTAL" and on the first line of the following pages enter "SUBTOTAL OF REDUCTION AMOUNT FROM PREVIOUS PAGE".
 - (6) On the final page of the listing enter "BASIC BID PREFERENCE GRAND" immediately before the word "TOTAL".
 - (7) Total the entries in the "REDUCTION AMOUNT" column for each page by commencing at the first entry for that page. If a continuation page exists, ensure that the subtotal from the previous page is computed into the running total. Number pages as appropriate.
 - (8) Compute a Grand Total for the Basic Bid Preference. Enter the amount on the final page of the worksheet. (Note: When solicitations require written bids this amount should also be entered on line "C" of the Basic Bid Schedule.) Submit worksheet(s) with the Bid Schedule.
- C. Form Completion – ALTERNATE BIDS.**
- (1) Enter project number and name, the words "ALTERNATE BID # __", and CONTRACTOR'S name in the heading of each page as provided.
 - (2) On the first entry line enter "ADDITIONAL ALASKA PRODUCTS FOR ALTERNATE BID # __", and repeat procedures 2 through 5 under part B these Bidder's instructions except that references to "Basic Bid" shall be replaced with the words "Alternate Bid # __".
 - (3) Following the listing of all additional Alaska products enter the words "ADDITIONAL PRODUCTS PREFERENCE FOR ALTERNATE BID # __ - SUBTOTAL" and enter a subtotal amount for all additional products as listed. Subtotal amount to be determined by adding all additional product entries in the "REDUCTION AMOUNT" column.
 - (4) Skip three lines and enter "LESS THE FOLLOWING NON-APPLICABLE ALASKA PRODUCTS:
(5) Beginning on the next line, enter the product name and manufacturer of each Alaska Product appearing on the "Basic Bid" listing which would be deleted or reduced from the Project should the "Alternate Bid" be selected. Details of entry need only be sufficient to clearly reference the subject product. (i.e. "Pre-hung doors by Alaska Door Co., Anchorage.") Products being reduced shall specify the amount of the reduction. Should no products require deletion enter "None". When a product is listed as a "NON-APPLICABLE ALASKA PRODUCT" for this alternate bid and if under the basic bid the Bidder received a preference on his basic bid as a result of that product, then the applicable entries under the headings "TOTAL DECLARED VALUE" and "REDUCTION AMOUNT" (for each product and from the basic bid listing) shall also be entered into the corresponding headings of this form. Where only a portion of the products has been deleted, the entry (which will differ from those on the basic bid listing) may be "pro-rated" or as otherwise substantiated.
 - (6) Following the listing of all non-applicable Alaska products enter the words "NON-APPLICABLE PRODUCTS PREFERENCE FROM BASIC BID ____ SUBTOTAL" and enter a subtotal amount for all non-applicable products listed. Subtotal amount to be determined by adding all non-applicable entries in the "REDUCTION AMOUNT" column.
 - (7) At the bottom of the final page enter the words "ALTERNATE BID # __ PREFERENCE GRAND" immediately before the word "TOTAL".
 - (8) Compute a Grand Total for the Alternate Bid Preference (for Alternate # __) by subtracting the non-applicable product preference subtotal from the additional product preference subtotal. Enter on the final page. (Note: When solicitations require written bids this amount should also be entered on line "C" of the Alternate Bid Schedule.) Submit separate worksheet(s) with each Alternate Bid.

BID SCHEDULE

STATE OF ALASKA – DEPARTMENT OF NATURAL RESOURCES – DIVISION OF PARKS AND OUTDOOR RECREATION

Project Name: **Standard Creek Material Site & Fortune Creek Bridge Replacement**

Project Number: **39030-1**

Before preparing this bid schedule, read carefully, Section 102 of the 2015 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 *****					
202(1)	Removal of Structures and Obstructions	Lump Sum	All Req'd	\$	\$
203(5A)	Rock Fill, Selected Material	Cubic Yard	4,800	\$	\$
203(19)	Material Source Development	Lump Sum	All Req'd	\$	\$
302(3)	Subgrade Modification	Station	37	\$	\$
504(3)	Modular Bridge	Lump Sum	All Req'd	\$	\$
517(1)	Prefabricated Modular Bin Wall	Lump Sum	All Req'd	\$	\$
603(17-18)	18-Inch Pipe	Linear Foot	250	\$	\$
611(1)	Riprap, Class II	Cubic Yard	49	\$	\$
615(1)	Standard Sign	Square Foot	49.5	\$	\$

BID SCHEDULE
 Standard Creek Material Site &
 Fortune Creek Bridge Replacement
 Project No. 39030-1

Name of Bidding Firm _____

618(1)	Seeding	Acre	1.0	\$	\$
630(1)	Geotextile, Separation	Square Yard	7,800	\$	\$
640(1)	Mobilization and Demobilization	Lump Sum	All Req'd	\$	\$
641(1)	Erosion, Sediment, and Pollution Control Administration	Lump Sum	All Req'd	\$	\$
641(2)	Temporary Erosion, Sediment, and Pollution Control	Contingent Sum	All Req'd	\$ 4,000.00	\$ 4,000.00
641(6)	DESCP Price Adjustment	Contingent Sum	All Req'd	\$ 0.00	\$ 0.00
642(1)	Construction Surveying	Lump Sum	All Req'd	\$	\$
643(2)	Traffic Maintenance	Lump Sum	All Req'd	\$	\$
a) TOTAL BASIC BID (BB)					\$
b) ALASKA BIDDER PREFERENCE					-
c) ALASKA PRODUCTS PREFERENCE					-
d) AK VETERAN'S PREFERENCE					-
e) ADJUSTED BASIC BID AMOUNT					\$

No: _____ Expires _____
Alaska Business License

No: _____ Expires _____
Alaska Contractor's License

BID SCHEDULE
Standard Creek Material Site &
Fortune Creek Bridge Replacement
Project No. 39030-1

Name of Bidding Firm _____



STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

CONSTRUCTION CONTRACT

Standard Creek Material Site & Fortune Creek Bridge Replacement Project No. 39030-1
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.

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: **September 2, 2016** 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 (See Section 108-1.07) _____ dollars (\$ _____) per day for each calendar day elapsing between the time stipulated for the completion and the actual date of completion in accordance with the terms hereof; such deduction to be made, or sum to be recovered, not as a penalty but as liquidated damages.

The bonds given by the Contractor in the sum of \$ **(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**

Design & Construction Duly Authorized Representative (Signature)

Date

Typed Name

Signature of Contracting Officer

Date

Typed Name



STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

PAYMENT BOND

Bond No. _____

For

Standard Creek Material Site & Fortune Creek Bridge Replacement Project No. 39030-1

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

Standard Creek Material Site & Fortune Creek Bridge Replacement Project No. 39030-1

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

Standard Creek Material Site & Fortune Creek Bridge Replacement Project No. 39030-1

Project Name and Number

DATE BOND EXECUTED: _____

PRINCIPAL (Legal name and business address):

TYPE OF ORGANIZATION:

	[] Individual	[] Partnership
	[] Joint Venture	[] Corporation
STATE OF INCORPORATION:		

SURETY(IES) (Name and business address):

A.	B.	C.
----	----	----

PENAL SUM OF BOND:	DATE OF BID:
--------------------	--------------

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

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

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

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

PRINCIPAL

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

Corporate Seal

See Instructions on Reverse

CORPORATE SURETY(IES)

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

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

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

INSTRUCTIONS

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

SPECIAL PROVISIONS

to the

STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

2015 STANDARD SPECIFICATIONS for HIGHWAY CONSTRUCTION

STANDARD CREEK MATERIAL SITE &

FORTUNE CREEK BRIDGE REPLACEMENT

PROJECT NUMBER 39030-1

SECTION 101

DEFINITIONS AND TERMS

101-1.02 ACRONYMS. Add the following Acronyms.

DOF Division of Forestry

DNR Department of Natural Resources

101-1.03 DEFINITIONS.

DEPARTMENT. Replace with the following: The Alaska Department of Natural Resources, Division of Forestry.

ROADWAY. Replace with the following: The portion of a highway, road, or facility including shoulders within the limits of construction within the Tanana Valley State Forest.

(02/10/15)FORESTRY-Special Provision

Add the following Definitions.

Project Engineer. The authorized representative from the Division of Forestry who is the technical point of contact. The project engineer is typically the project manager.

Region I. All land in Southeast Alaska, plus land that is south of the crest of the Chugach Mountains and Saint Elias Mountains and east of a line running from the crest of the Chugach Mountains to O'Malley Peak, then southerly to Gull Rock, then southwesterly to the eastern junction of Skilak Lake road and the Sterling Highway, then southwesterly to the mouth of the Fox River, then southwesterly through Kachemak Bay to Mt. Douglas, plus all land on the Alaska Peninsula between Mt. Douglas and Cape Kumliun that is east of the crest of the Aleutian Range, plus all islands in the Gulf of Alaska north of 56 degrees 23 minutes North latitude.

Region II. All land in the state south of the Nutzotin Mountains and Mentasta Mountains, south of the Alaska Range, and east of the Aleutian Range, **except** for the area within Region I and peninsular and island land south of Cape Kumliun.

Region III. All land in the state outside of Regions I and II.

SPECIAL PROVISIONS

Project Number 39030-1

Standard Creek Material Site & Fortune Creek Bridge Replacement

SECTION 102

BIDDING REQUIREMENTS AND CONDITIONS

102-1.04 EXAMINATION OF PLANS, SPECIFICATIONS, SPECIAL PROVISIONS, AND WORK SITE. Replace this Subsection in its entirety with the following: Bidders shall examine the work site and all Contract documents before preparing a bid. Submitting a bid is a binding representation that the bidder has examined the work site, is aware of the conditions to be encountered, and has examined and understands all of the Contract documents.

Material Reports and/or Soils Investigation Reports are not available for this project.

The inclusion of material source information in the plans is described in Subsection 106-1.02. For a material source to be considered Mandatory, Designated, or Available, it must be included in the Special Provisions, or so described on the Plans.

Any questions about bidding procedures, site conditions, or Contract requirements must be submitted in writing to the persons designated on the Invitation To Bid. Questions must be submitted in sufficient time to get a reply before submitting a bid. No oral responses or other oral statements are binding on the Department. Any response to a material question shall be issued by addendum sent to all bidders.

(02/10/15)FORESTRY-Special Provision

SECTION 104

SCOPE OF WORK

104-1.01 INTENT OF CONTRACT. Add the following:

This project's purpose is to supply all professional services, labor, equipment, materials and supplies to construct a new bridge at an existing bridge location identified as Bridge Number 1958, Cache Creek Road over Fortune Creek, develop a material site, and improve a number of segments of roadway.

Work includes development of a material site, culvert installation, sign installation, subgrade modification, geotextile placement, placement of rock fill collected from the developed material site. Work also includes the design, supply, and installation of a prefabricated modular bridge substructure and superstructure including all ancillary work required to provide a crossing similar to that shown in the plans. Engineer shall review and approve proposed bridge design and material.

The existing bridge at Fortune Creek is closed. The Contractor is not required to provide access to the public during construction.

104-1.06 VALUE ENGINEERING PROPOSALS BY CONTRACTOR. Replace this Subsection in its entirety with the following: No value engineering proposals will be considered for this project.

(11/29/95)R2M-Special Provision

SECTION 105

CONTROL OF WORK

105-1.02 PLANS AND WORKING DRAWINGS. Replace this Subsection in its entirety with the following: The Contractor shall supplement structure plans with working drawings that include all details that may be required to adequately control the work and that are not included in the Plans furnished by the Department. The Contractor shall not perform work or order materials until the working drawings for such work, or for changes, are approved by the Engineer.

The Contractor shall submit to the Engineer for approval of any required preliminary detail or working drawings. The project name and number shall be stated in the title block for all drawings, as shall the state bridge number, when applicable. The Contractor shall submit drawings in either an electronic or paper format that is acceptable to the Engineer. When paper copies are submitted, provide three sets.

The Contractor shall submit drawings to the Engineer and allow 14 days for review and correction before beginning the work detailed in the drawing. The Engineer shall return one set of these drawings, either approved or marked with corrections to be made, and shall retain the other sets. The Engineer's approval of working drawings does not change the Contract requirements or release the Contractor of the responsibility for successful completion of the work.

The Contractor is responsible for the accuracy of dimensions and details and for conformity of the working drawings with the Plans and Specifications. The Contractor shall indicate clearly on the working drawings any intended deviations from the Plans and Specifications and itemize and explain each deviation in the Contractor's transmittal letter. The Engineer may order the Contractor to comply with the Plans and Specifications at the Contractor's sole expense if the approved working drawings deviate from the Plans and Specifications and the Contractor failed to itemize and explain the deviations in the Contractor's transmittal letter.

The Contractor shall include the cost of furnishing all working drawings in the Contract price. Plans are not available in CAD digital format. (02/10/15)FORESTRY-Special Provision

105-1.06 UTILITIES. Add the following:

Request locates from the utilities having facilities in the area. Use the Alaska Digline, Inc. Locate Call Center for the following utilities.

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Project Number 39030-1

Standard Creek Material Site & Fortune Creek Bridge Replacement

ALASKA DIGLINE, INC.

Locate Call Centers:

Anchorage	278-3121
Statewide	(800) 478-3121

Call Centers will notify the following:

Alaska Communications Systems (ACS)

Alaska Fiber Star (WCI)

Alaska Railroad Corporation (ARRC)

AT & T Alascom (AT&T)

Fairbanks Natural Gas (FNG)

General Communications, Inc. (GCI)

105-1.07 COOPERATION BETWEEN CONTRACTORS. Add the following: The following projects will be under construction concurrently with this project:

Coordinate traffic control, construction, and material hauling operations so as to minimize impact on the traveling public, and to minimize conflicts with logging operations being performed under the other contracts.

(11/16/06)FORESTRY-Special Provision

105-1.08 SURVEY CONTROL. Replace with the following: The survey control established by the DOF corresponds to conditions needing specific work under this agreement. Any control that is damaged or destroyed during construction shall be the Contractor's responsibility and shall be replaced at his own expense. The clearing limits for the borrow site shall be verified by the contractor prior to construction. (02/10/15)FORESTRY-Special Provision

105-1.15 PROJECT COMPLETION. Replace the last paragraph with the following: When all physical work and cleanup provided for under the contract is found to be complete, except for work specified under Section 641 Erosion, Sediment, and Pollution Control, a letter of project completion will be issued by the Engineer. Project completion will relieve you from further maintenance responsibilities and will stop the count of contract time but will not relieve you of any obligations under the Contract. (05/28/03)R237USC02-Special Provision

This project shall be completed by September 2, 2016.

Add the following Subsection:

105-1.17 CLAIMS. Add the following: Any appeal to the superior court under AS 36.30.685 must be filed in the third judicial district. (03/21/01)R93-Special Provision

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105-1.19 CONSTRUCTION LIMITATIONS. It is the intent of this contract to develop a material site, repair road areas, and construct a new bridge without entering land and/or property outside clearing or ROW limits. Equipment, materials, and manpower shall not be allowed outside clearing or ROW limits without prior approval of the Engineer. Excavation of any kind shall only be stored within clearing limits or at a location identified by the Engineer while awaiting final placement or disposal. The Contractor shall not use construction equipment or workers that, in the opinion of the Engineer, cannot consistently operate within clearing limits.

(02/10/15)FORESTRY-Special Provision

SECTION 106

CONTROL OF MATERIAL

106-1.01 SOURCE OF SUPPLY AND QUALITY REQUIREMENTS. Add the following: Pursuant to AS 36.15.050 and AS 36.30.322, agricultural/wood products harvested in Alaska shall be used in state funded projects whenever they are priced no more than seven percent above agricultural/wood products harvested outside the state and are of a like quality as compared with agricultural/wood products harvested outside the state.

The Contractor shall maintain records which establish the type and extent of agricultural/wood products utilized. When such products are not utilized, the Contractor shall document the efforts he made towards obtaining agricultural/wood products harvested in Alaska and include in this documentation a written statement that he contacted the manufacturers and suppliers identified on the Department of Commerce and Economic Development's list of suppliers of Alaska forest products concerning the availability of agricultural/wood products harvested in Alaska and, if available, the product prices. The Contractor shall complete this documentation at a time determined by the Contracting Officer.

The Contractor's use of agricultural/wood products that fail to meet the requirements of this Subsection shall be removed and replaced in accordance with the last paragraph of Subsection 105-1.03, Conformity With Plans and Specifications.

(05/07/91)S18-Special Provision

Whenever materials or equipment are specified or described in the contract documents by using the name of a proprietary item or the name of a particular supplier the naming of the item is intended to establish the type, function and quality required. Materials or equipment of other suppliers may be accepted by the Department if sufficient information is submitted by the operator which clearly demonstrates to the Department that the material or equipment proposed is equivalent or equal in all aspects to that named. Requests for review of substitute items of material and equipment will not be accepted by the Department from anyone other than the operator.

If the operator wishes to furnish or use a substitute item of material or equipment, the operator shall make written application to the Department for approval thereof, certifying that the proposed substitute will perform adequately the functions and achieve the results called for by the general design, be similar and of equal substance to that specified and be suited to the same use as that specified. The application will state that the evaluation and approval of the proposed substitute will not delay the operator's achievement of final completion on time, whether or not acceptance of the substitute for use in the work will require a change in any of the contract documents to adapt the design to the proposed substitute. Any payment of license fee or royalty in connection with the substitute shall be borne by the Contractor.

Submittals are required for all materials. Submittal approval by the Department is required prior to incorporation of materials into work. Complete submittal information is required to be

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on the job site at all times during construction. Operator shall make materials available for inspection in a convenient manner, at the time of arrival, for conformance with the submittal information and contract documents. Materials found to differ from contract specifications shall be replaced at no additional expense to Department.

When materials or work are specified to be per manufacturer's recommendations, submit written manufacturer's recommendations for the materials or work prior to commencing work or incorporating materials into work.

(01/01/01)PARKS-Special Provision

106-1.02 MATERIAL SOURCES. Replace the first paragraph within Subparagraph 4. Type of Sources., b. Mandatory Sources:

Standard Creek Site:

The borrow source for constructing the road is specified on the plans. The DOF identified pit site in the plans contains quantities of material that would be suitable to use as 703-2.17 ROCK FILL, SELECTED MATERIAL and 703-2.18 UNCLASSIFIED BEDDING. It is the contractor's responsibility and cost to develop this site as needed for the work and to the full extent as depicted on the plans. The approval and the continued use of these sites will be contingent on the approval of the Engineer. The Engineer will base approval on the suitability of the material for the proposed use. If the pit site does not provide enough material meeting the Engineer's approval, another pit site will be required to be used until adequate material is furnished to meet requirements. There will be no royalty cost for use of borrow associated with this project from Tanana Valley State Forest land.

Fortune Creek Site:

Rock fill sources for constructing the road are unspecified but material may be used from the developed material site near Standard Creek. It is the contractor's responsibilities to locate suitable rock fill and propose pit sites or sources prior to development to the DOF. It is the contractor's responsibility and cost to develop these sites as needed for the work. The approval and the continued use of these sites will be contingent on the approval of the project engineer. The project engineer will base approval on the suitability of the material for the proposed use. If the pit site does not provide enough material meeting the project engineer's approval, another pit site will be required until adequate material is furnished to meet requirements.

(02/10/16)FORESTRY-Special Provision

SECTION 107

LEGAL RELATIONS AND RESPONSIBILITY TO PUBLIC

107-1.02 PERMITS, LICENSES, AND TAXES. Add the following: Obtain a written statement from the State Historic Preservation Officer stating that material disposal, extraction, stockpiling or staging, on any off-project site, is not expected to impact any cultural resources. The State Historic Preservation Officer is with the Department of Natural Resources in Anchorage, and may be contacted at (907) 269-8715. If you discover cultural resources during construction activities, stop work at that site and notify the project engineer.

(05/29/02)R7M98-Special Provision

Add the following: Provide a copy of the Department of Labor permit or receipt of payment prior to the start of any physical work. (01/01/05)PARKS-Special Provision

107-1.11 PROTECTION AND RESTORATION OF PROPERTY AND LANDSCAPE.

Under Item 4. Damage to property, add the following:

- d. Any maintenance or upkeep of the haul roads, including water for dust control, shall be at the Contractor's expense. Upon completion of hauling over a roadway it shall be left in as good or better condition than prior to commencing of hauling operations. This determination shall be made by the Engineer.

(01/01/01)PARKS-Special Provision

Under Item 5. Protection of natural resources: The Contractor shall:

Replace with the following:

- c. When working in or near designated anadromous fish streams, as defined by AS 41.14.840 and AS 41.14.870, place no fill or dredge material, nor operate equipment, within or on the banks of the stream (including fording) except as permitted by the State Fish Habitat Permit issued for the project. The contractor will responsible to acquire the State Fish Habitat Permit.

Add the following:

- d. If you require water for any construction purpose from a non-municipal 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) 269-8609.

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(02/10/15)FORESTRY-Special Provision

Add the following: All clearing and/or grubbing activities shall take place outside of the Migratory Bird Treaty Act (MBTA) window as determined by the U.S. Fish and Wildlife Service (FWS) under the website publication for the construction year:

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

(06/30/98)PARKS-Special Provision

Under Item 7. Protected areas.

Add the following:

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

Maintain a Primary Zone of a minimum 330 ft as an undisturbed habitat buffer around nesting bald eagles. If topography or vegetation does not provide an adequate screen or separation, extend this buffer to 0.25 miles, 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 ft and 660 ft from eagles 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, this buffer shall extend up to 0.5 miles. No blasting, logging and other noisy, disturbing activities should occur during the nesting period (March 1 – August 31) within the primary or secondary zones.

Extremely noisy activities such as road construction or other activities that occur within the Secondary Zone shall be conducted outside the nesting period to avoid disturbance to eagles. If activities occur in proximity to a nest site, employ an individual qualified to observe and assess the impact of such activities on nesting eagles. Behavior generally associated with disturbed eagles includes alarm calls, birds flushed from their nest or perch, and aggressiveness.

If nest trees are discovered within the vicinity of the project site, the U.S. Fish and Wildlife Service must be notified immediately by calling (907) 786-3503 or (907) 271-2772, before starting construction activities, for further site evaluation.

(08/12/10)CR1071-Special Provision

107-1.12 FOREST PROTECTION. Add the following:

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7. During the Term of this Contract, contractor shall make every effort to prevent and suppress fires within the Project Area. Unless otherwise required herein, or prevented by circumstances over which contractor has no control, contractor shall place its equipment, employees, contractors, and employees of contractors at the disposal of any authorized State employee for the purpose of fighting forest fires within or near the Project Area.
8. Contractor will ensure that the road building crews have adequate fire fighting equipment and training for its use on site when operating in the contract area, pursuant to the approved operating plan. In the event of "extreme fire danger," a fire watch will remain in the active road building areas a minimum of one hour after work has stopped for the day, or at its election, the State may suspend road building operations until the fire danger is reduced. Contractor shall report all fires to the Alaska Division of Forestry by calling 911, the Area Forestry Office at (907) 451-2600, or AICC (800)-237-3633 immediately after becoming aware of a fire or imminent threat of fire.

(11/16/06)FORESTRY-Special Provision

107-1.15 CONTRACTOR'S RESPONSIBILITY FOR WORK. Add the following: This road is being constructed in support of timber harvesting operations. The contractor will maintain the constructed road and associated roads used to access the area to the standards of the Alaska Forest Practices Act and Regulations for active roads. The contractor will provide surface blading, minor structure replacement, ditch and culvert cleaning, brushing, and reconstruction of the road structure where needed during the project. Other maintenance may be mutually agreed upon from time to time. Maintenance shall consist of:

- a. current maintenance as necessary to preserve, repair, and protect the roadbed, surface and all structures and appurtenances, and
- b. resurfacing equivalent in extent to the wear and loss of surfacing caused by operations authorized by this contract.
- c. Provide all necessary erosion control measures as required by the Engineer to maintain existing water quality per the Alaska Forest Practices Act and Regulations for road construction activities.

(05/01/06)FORESTRY-Special Provision

SECTION 108

PROSECUTION AND PROGRESS

108-1.01 SUBLETTING OF CONTRACT. Delete paragraph one and replace with the following: The Contractor shall submit a Contractor Self Certification for Subcontractors and Lower Tier Subcontractors, Form 25D-042, before the Contractor or any subcontractor sublets, sells, transfers, assigns, or otherwise disposes of the Contract or any portion of the Contract. The Department has authority to review subcontracts and to deny permission to sublet work. The Department may penalize the Contractor for false statements or omissions made in connection with Form 25D-042.

Delete paragraph four and replace with the following:

1. The Contractor shall ensure that for all subcontracts (agreements):
 - a. The Department is furnished with one completed Contractor Self certification, Form 25D-042, for each subcontract;
 - b. The required prompt payment provisions of AS 36.90.210, as well as other items listed in Form 25D-042, are included in the subcontracts;
 - c. The subcontractors pay current prevailing rate of wages as per Subsection 107-1.04 and file certified payrolls with the Engineer and DOLWD for all work performed on the project; and
 - d. Upon receipt of a request for more information regarding subcontracts, the requested information is provided to the Department within 5 calendar days.

(05/02/11)PARKS-Special Provision

108-1.02 NOTICE TO PROCEED. Add the following: The Contractor may request a Limited Notice to Proceed after the Award has been made, to permit him to order long lead materials which would cause delays in project completion. However, granting is within the sole discretion of the Contracting Officer, and refusal or failure to grant a Limited Notice to Proceed shall not be a basis for claiming for delay, extension of time, or alteration of price.

Notice to Proceed will not be issued prior to **July 18, 2016.**

(6/30/98)PARKS-Special Provision

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

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Replace item 1. A progress schedule. 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 to 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.

(12/13/02)R261-Special Provisions

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SECTION 109

MEASUREMENT AND PAYMENT

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 project engineer. The measurement shall start when the required equipment and operator, surveyor, or survey party begins work at the specified location as directed by the project engineer. The measurement will stop when the required work is accomplished, when the equipment fails, when directed to stop work by the project engineer, or when the operator stops work. Elapsed work item time periods will be reconciled with the Contractor on a daily basis.

(01/01/05)PARKS-Special Provision

109-1.05 COMPENSATION FOR EXTRA WORK ON TIME AND MATERIALS BASIS. Under item 3. Equipment, subitem a. Hourly Rental Rate, 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 Alaska - North. (04/31/05)R14-Special Provision

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SECTION 201

CLEARING AND GRUBBING

201-3.01 GENERAL. Add the following: All clearing of spruce trees will conform to the Alaska Forest Practices Act. Decking of spruce logs will not be allowed within the project area as a disposal method.

Birch logs with a top diameter greater than 4 inches and having a length longer than 12 feet shall be decked adjacent to the roadway in a stable manner in areas approved by the engineer. Log decks will not restrict sight distance on the road, obstruct traffic or be located in a manner that will obstruct surface waters or runoff from the road.

Avoid depositing debris in streams. Immediately remove debris deposited in stream courses unless directed otherwise by the engineer.

Fell all dead trees that are outside the clearing limits and that lean toward the clearing area and are tall enough to reach the borrow site limits. Felled trees outside the clearing limits will be treated in the same manner as the trees felled inside the clearing limits.

The following are approved methods of disposal of construction debris:

- (a) Remove from project. Recycle or dispose of material legally off the project. Furnish a statement documenting the nature and quantity of material processed or sold for recycling. Otherwise, furnish a signed copy of the disposal agreement before disposal begins.
- (b) Burn. Obtain necessary burning permits. Furnish a copy of the burning permits before burning begins. Provide a competent watchperson during the burning operations. When burning is complete, extinguish the fire so no smoldering debris remains. Dispose of unburned material according to (c, e) below, or (a) above.
- (c) Bury. Bury debris excavated as part of this work in trenches or pits in approved areas within the right-of-way. Do not bury debris beneath drainage ditches, or in any areas subject to free-flowing water. Place debris in alternating layers of 4 feet of debris covered with 2 feet of earth material. Distribute stumps, logs, and other large pieces to form a dense mass and minimize air voids. Cover the top layer of buried debris with at least 1 foot of compacted earth. Grade and shape the area.
- (d) Scatter. Residual debris and slash may be scattered less than 12 inches in depth above the existing ground within the project limits. Do this by spreading in an even layer so that material does not intrude into the upper 3 feet of subgrade.
- (e) Hazardous material. Furnish a copy of all disposal permits. Dispose of material according to Federal, State, and local regulations.

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(f) Chipping or Grinding. Use an approved chipping machine to grind slash and stumps greater than 3 inches in diameter and longer than 3 feet. Deposit chips or ground woody material on embankment slopes or outside the roadway to a loose depth less than 12 inches.

(11/16/06)FORESTRY-Special Provision

201-3.06 DISPOSAL. Replace paragraphs three and four with the following: Combustible material from any operations shall be disposed of by transporting to locations outside the forestry controlled lands. Burning will not be permitted in other areas close to the project limits to cause, as determined by the Engineer, a fire danger to the resources.

Burning will not be permitted on private lands without the written approval of the property owner. The approval of the Engineer shall be required on a day to day basis when burning is within a two mile radius of the park lands. Constant care by competent watchmen with immediate access to adequate firefighting equipment shall be required during burning operations. Full compliance with applicable laws and ordinances will be the Contractor's responsibility.

(01/01/01)PARKS-Special Provision

201-4.01 METHOD OF MEASUREMENT. Replace the entire Subsection with the following: Work described under this Section will not be measured for payment but shall be considered subsidiary Material Source Development under Section 203 EXCAVATION AND EMBANKMENT. (04/10/07) Forestry-Special Provision

201-5.01 BASIS OF PAYMENT. . Replace the entire Subsection with the following: Work described under this Section will not be paid for separately but shall be considered subsidiary to Item 203(5A) Rock Fill, Selected Material and 203(19) Material Source Development.

(04/10/07) Forestry-Special Provision

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SECTION 202

REMOVAL OF STRUCTURES AND OBSTRUCTIONS

202-3.01 GENERAL. Add the following:

At Fortune Creek remove an existing bridge (rail car), abutments, and any associated bridge material. At Standard Creek remove 8 culverts. Dispose of materials off site in a lawful manner at the Contractor's expense.

202-4.01 METHOD OF MEASUREMENT. Add the following:

Removal of bridge, abutments, and associated bridge material will not be measured for payment.

202-5.01 BASIS OF PAYMENT. Add the following:

Removal of culverts, bridge, abutments, and associated bridge material is considered subsidiary to pay Item 202(1) Removal of Structures and Obstructions.

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SECTION 203

EXCAVATION AND EMBANKMENT

203-1.01 DESCRIPTION. Add the following: This item includes work required to develop a material site. Excavated, blasted, screened, and/or crushed material developed from the site, Rock Fill, Selected Material, will be hauled, placed, and compacted to the final grade and elevations shown on the Plans and as described within the contract.

(05/18/16)FORESTRY-Special Provision

203-2.01 MATERIALS. Add the following: Perform common excavation and processing to formulate the aggregate gradations listed in Section 703.

6. Rock Fill, Selected Material. As specified on the Plans or Special Provisions.

203-3.01 GENERAL. Add the following: The contractor shall develop a material source as shown in Plans. Material source plans are shown for reference only and shall be field verified prior to construction. Rock Fill, Selected Material shall be mined from the developed material source and used as fill material.

(01/10/15)FORESTRY-Special Provision

203-3.02 ROCK EXCAVATION. Replace this Subsection with the following:

This work consists of fracturing rock and constructing stable final rock cut faces using controlled blasting and production blasting techniques.

Controlled blasting uses explosives to form a shear plane in the rock along a specified backslope. Controlled blasting includes presplitting and cushion blasting.

Production blasting uses explosives to fracture rock.

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

- (a) Safety and health. OSHA, 29 CFR Part 1926, Subpart U.
- (b) Storage, security, and accountability. Bureau of Alcohol, Tobacco, and Firearms (BATF), 27 CFR Part 181.
- (c) Shipment. DOT, 49 CFR Parts 171-179, 390-397.
- (d) Forest Service Manual (FSM) 6745 Explosives and Blasting Materials.

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

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

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

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

(1) Working procedures and safety precautions for storing, transporting, handling, and detonating explosives.

(2) Proposed product selection for both dry and wet holes. Furnish Manufacturer's Material Safety Data Sheets for all explosives, primers, initiators, and other blasting devices.

(3) Typical plan and section views for both production and controlled blasting, including maximum length of the shot, burden, hole spacing, hole inclination, hole depth, hole diameter, subdrill depth, and powder factor.

(4) Proposed initiation and delay methods and delay times.

(5) Proposed format for providing all the required information for the site specific blasting plans.

(b) Site-specific blasting plans. After the general blasting plan is accepted, submit site-specific blasting plans for acceptance before drilling operations begin. Allow up to three days for review of these plans. Include the following information in the site-specific blasting plan.

(1) Site drawings showing a scaled map of the blast area and cross-sectional views which indicate beginning and ending stations, free face location, hole spacing, hole diameter, hole depth, burden, hole inclination, and subdrill depth. Include on the drawings any significant joints or bedding planes within the blast zone and incorporate this geology into the blast design.

(2) Where blasting may affect nearby structures or utilities, provide method of monitoring and controlling blast vibrations according to Subsection 205.06.

(3) Loading pattern diagram showing the location and amount of each type of explosive

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to be used in the holes including primer and initiators and the location, type, and depth of stemming, column heights, and overall powder factor for each type of loading.

(4) Delay and initiation diagram showing delay pattern, sequence, and delay times.

Blasting.

(a) General. Drill and blast according to the blasting plan.

Before drilling, remove overburden soil and loose rock along the top of the excavation for at least 30 feet beyond the hole drilling limits or to the end of the cut.

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

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

Free blast holes of obstructions for their entire depth. Place charges without caving the blast hole walls. Stem the upper portion of all blast holes with dry sand or other granular material passing the 3/8-inch sieve.

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

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

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

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

- (1) Slopes are unstable;
- (2) Slopes exceed tolerances or overhangs are created;
- (3) Backslope damage occurs;
- (4) Safety of the public is jeopardized;
- (5) Property or natural features are endangered;
- (6) Fly rock is generated; or
- (7) Excessive ground or airblast vibrations occur in an area where damage to buildings, structures, or utilities is possible.
- (8) Halt blasting operations when any of the following conditions exist:

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Precipitation exceeds 1 inch in a previous 24 hour period.
A landslide occurs within 300 feet of a blast site under any precipitation conditions.

(b) Drill logs. Submit drill logs. Include the following:

- (1) Blast plan map showing designated hole numbers; and
- (2) Individual hole logs completed and signed by the driller that show total depth drilled, depths and descriptions of significant conditions encountered during drilling that may affect loading such as water or voids, and date drilled.

(c) Controlled blasting. When test blasts indicate the need for controlled blasting, use controlled blasting methods to form the final rock cut faces when the rock height is more than 10 feet above ditch grade and the staked slope is 2V:1H or steeper.

Controlled blasting includes only those holes drilled on the row furthest from the free face and that are drilled on the design slope.

Use downhole angle or fan drill blast holes for pioneering the tops of rock cuts or preparing a working platform for controlled blasting. Use the blast hole diameter and hole spacing established for controlled blasting during the test blasts.

Drill controlled blast holes not greater than 4 inches in diameter along the final rock face line. Drill controlled blast holes within 3 inches of the proposed surface location. Drill controlled blast holes at least 30 feet beyond the production holes to be detonated or to the end of the cut.

Use drilling equipment with mechanical or electrical-mechanical devices that accurately control the angle the drill enters the rock. Select a lift height and conduct drilling operations so the blast hole spacing and downhole alignment does not vary more than 9 inches from the proposed spacing and alignment. When more than 5 percent of the holes exceed the variance, reduce the lift height and modify the drilling operations until the blast holes are within the allowable variance. Maximum lift height is 50 feet.

A 12-inch offset is allowed for a working bench at the bottom of each lift for drilling the next lower controlled blasting hole pattern. Adjust the drill inclination angle or the initial drill collar location so the required ditch cross-section is obtained when the bench is used.

Drilling 20 inches below the ditch bottom is allowed for removing the toe.

Do not use bulk ammonium nitrate and fuel oil for controlled blasting.

Where presplitting, delay the nearest production blast row at least 25 milliseconds after blasting the presplit line. Presplit a minimum of 30 feet ahead of production blasting zone.

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Where cushion (trim) blasting, delay the cushion blast row from 25 to 75 milliseconds after blasting the nearest production row.

- (d) Production blasting. Drill the row of production blast holes closest to the controlled blast line parallel and no closer than 6 feet to the controlled blast line. Do not drill production blast holes lower than the bottom of the controlled blast holes.
Detonate production holes on a delay sequence toward a free face.

After Blast Reports. Within 3 days after a blast and before the next blast if required by the Engineer, submit an after-blast report that includes the following:

- (a) Results of the blast and whether or not blasting objectives were met. If blasting objectives were not met, submit proposed changes to future site-specific blasting plans that will produce acceptable results and proposed repair or stabilization plan for unstable or blast damaged backslopes.
- (b) Blasting logs that include the following:
 - (1) All actual dimensions of the shot including blast hole depths, hole diameter, burden, spacing, subdrilling, stemming, powder loads, and timing; and
 - (2) A drawing or sketch showing the direction of the face, or faces, and the physical shot layout.
- (c) If a seismograph was used, provide the following:
 - (1) Identification of instrument used;
 - (2) Name of qualified observer and interpreter;
 - (3) Distance and direction of recording station from blast area;
 - (4) Type of ground recording station and material on which the instrument is sitting;
 - (5) Maximum particle velocity in each direction;
 - (6) A dated and signed copy of the seismograph readings; and
 - (7) Post-blast condition survey.
- (d) Results of airblast monitoring.
- (e) Results of post blast condition survey.

Acceptance. Material for rock blasting will be evaluated under Certification. For material manufactured off-site, use a manufacturer with an ISO 9000 certification or an effective testing and inspection system. Require the manufacturer to clearly mark the material or packaging with a unique product identification or specification standard to which it is produced.

Other than references in or to the FAR or Federal Law, when these Standard Specifications reference certifications; certificates; or certified documents, equipment, or individuals, these references are not certifications under Section 4301 of Public Law 104-106, National Defense Authorization Act for Fiscal Year 1996. These references refer to documentation of non-

regulatory, peripheral contract requirements that are required to be validated by an individual or organization having unique knowledge or qualifications to perform such validation.

Material accepted by certification may be sampled and tested at any time. If found not in conformance with the contract, the material will be rejected whether in place or not.

One of the following certifications may be required:

(a) Production certification. Material requiring a production certification is identified in the Acceptance Subsection of each Section. Require the manufacturer to furnish a production certification for each shipment of material. Include the following with each production certification:

- (1) Date and place of manufacture;
- (2) Lot number or other means of cross-referencing to the manufacturer's inspection and testing system; and
- (3) Substantiating evidence that the material conforms to the contract quality requirements as required by FAR 46.105(a)(4), including all of the following:
 - (a) Test results on material from the same lot and documentation of the inspection and testing system;
 - (b) A statement from the manufacturer that the material complies with all contract requirements; and
 - (c) Manufacturer's signature or other means of demonstrating accountability for the certification.

Rock blasting work and services will be accepted is based on visual inspection of the work for compliance with the contract and prevailing industry standards.

203-4.01 METHOD OF MEASUREMENT. Replace the entire Subsection with the following: Section 109 and the following:

- 1. Work for blasting will require blasting logs submitted in the After Blast Reports (203-3.02) to ensure that minimum quantities shown on the plans were achieved.
- 2. Item 203(5A) Rock Fill, Selected Material will be measured by end area method.
- 3. Item 203(19) Material Source Development will be measured by Engineers acceptance.

203-5.01 BASIS OF PAYMENT. Replace the entire Subsection with the following: All work required for material source development is subsidiary to Item 203 (19) Material Source Development.

Work described under this Section will be paid for under:

Pay Item	Pay Unit
203 (5A) Rock Fill, Selected Material	Cubic Yard
203 (19) Material Source Development	Lump Sum

(12/23/15) Forestry-Special Provision

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SECTION 204
**STRUCTURE EXCAVATION FOR CONDUITS
AND MINOR STRUCTURES**

204-2.01 MATERIALS. Replace the entire Subsection with the following: Use materials that conform to the following special provision: 703-2.18 UNCLASSIFIED BEDDING

Add the following Subsections:

204-3.02 BEDDING. Place bedding as follows:

(a) For pipe culverts. Provide a uniform grade for the pipe foundation. Place un-compacted bedding material over the foundation in a layer of uniform thickness. The bedding thickness is 4 inches. For belled joints, recess the bedding to receive the joints. Place the culvert on un-compacted bedding layer.

204-3.03 BACKFILL. Backfill as follows:

(a) Pipe culverts. Place and compact material in evenly balanced layers on each side of each pipe culvert. Backfill according to one of the following:

(1) Pipe culverts with compacted backfill. Place and compact backfill material to a height of 12 inches above the top of the pipe. Complete the backfilling of the trench with suitable roadway excavation or unclassified borrow.

Place the material in layers that, when compacted, do not exceed 6 inches in thickness. Compact each layer according to Subsection 203-3.03.

(05/01/06)FORESTRY-Special Provision

204-5.01 BASIS OF PAYMENT. Replace the second and third paragraphs with the following: When Item 204(1), Structure Excavation, does not appear in the Bid Schedule, structure excavation required to complete other items of work will not be paid for directly but will be considered as subsidiary to those items. (05/01/06)PARKS-Special Provision

SECTION 302

SUBGRADE MODIFICATION

302-1.01 DESCRIPTION. Replace with the following: This section is intended to accomplish all subgrade preparations to the road, ditches, and shoulders not covered in Section 203. It also performs road reconditioning to finish grade where Rock Fill, Selected Material will not be installed.

302-2.01 MATERIALS. Replace with the following: Existing roadway material.

302-3.01 PROCESSING. Replace with the following: Blade the shoulder slopes and ditches to form a uniform shoulder line. First remove and dispose of weeds, sod, grass, roots, or other objectionable material from the surface. Spread the usable material obtained from the shoulder slopes and ditches and the surfacing material existing on the road surface uniformly over the roadbed. Acceptance by the engineer is required prior to placement of Rock Fill, Selected Material.

Spread surface material to line and grade and compact uniformly as specified in Subsection 203- 3.05.

302-4.01 METHOD OF MEASUREMENT. Replace with the following: Section 109 and the following:

Subgrade modification is measured along centerline.

302-5.01 BASIS OF PAYMENT. Add the following:

Pay Item	Pay Unit
302(3) Subgrade Modification	Station

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SECTION 504

STEEL STRUCTURES

504-1.01 DESCRIPTION. Add the following:

Work shall include providing a fully engineered galvanized steel modular bridge. The work included under this item shall consist of design, fabricating, finishing and transporting the steel beam bridge superstructure including bearings.

Each Contractor is required to identify their intended supplier as part of the bid submittal. Qualified Bridge Manufacturers must have at least 5 years of experience fabricating these types of structures and shall have an up to date certification by the American Institute of Steel Construction (AISC) as a Certified Bridge Fabricator - Intermediate (IBR).

Fracture Critical structures are not permitted.

504-2.01 MATERIALS. Add the following:

Prefabricated bridge substructure and superstructure are to satisfy the following performance specifications:

1. Governing Design Code.
 - a. Design is in accordance with the AASHTO LRFD Bridge Design Specifications – Latest Edition. Contractor shall submit calculations and formulas shall reference the appropriate sections.
2. General Dimensions.
 - a. Bridge length shall be as shown in the plans.
 - b. Bridge width shall be as shown in the plans and Standard Details.
 - c. Bridge shall be not be skewed.
 - d. Bridge shall have a vertical camber dimension at the mid-span equal to 100% of the anticipated full dead load deflection.
3. Design Loadings. See Standard Detail Sheet N-01.00.
4. Materials. See Standard Detail Sheet N-01.00.
5. Engineering.
 - a. Structural design of the bridge superstructure shall be performed by or under the direct supervision of a Professional Engineer, registered in the State of Alaska.
 - b. Bridge drawings and calculations shall be submitted for approval prior to fabrication. Submittals shall carry the signature and seal of the Registered Professional Engineer.

504-3.01 GENERAL. Add the following:

Install prefabricated bridge substructure and superstructure in accordance with methods and instructions provided by the bridge manufacturer.

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Place E-1 aggregate surface course as final grading of bridge approaches and deck to provide smooth transition from roadway surface to bridge deck. When possible, salvage embankment material excavated for installation of bridge to raise road to roadway profile elevations shown in the Drawings.

504-4.01 METHOD OF MEASUREMENT. Add the following:

Freight costs will not be measured for payment.

504-5.01 BASIS OF PAYMENT. Add the following:

Furnishing, mobilizing, modifying, operating, and maintaining all materials and equipment necessary to install prefabricated bridge and not covered under other pay items is subsidiary to pay item 504 (3) Modular Bridge.

Add the following pay items:

Pay Item	Pay Unit
504 (3) Modular Bridge	Lump Sum

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Add the following section:

SECTION 517

MODULAR BIN ABUTMENT

517-1.01 DESCRIPTION. This work shall consist of designing, furnishing materials, and erecting a permanent earth retention system in accordance with the lines, dimensions, elevations, and details as shown on the plans and provided in the contract documents.

517-2.01 MATERIALS. The operator shall furnish all components of the modular proprietary wall system from an approved manufacturer.

The name of companies supplying materials shall be furnished to the Owner within 21 days of the award of contract.

517-3.01 DESIGN REQUIREMENTS. It is the responsibility of the operator to supply a design and supporting documentation as required by this provision for review by the Alaska Department of Natural Resources to show that the proposed wall design is in compliance with these design specifications.

The design of the wall system shall be in compliance with the latest AASHTO Standard Specifications for Highway Bridges including interim specifications, the standard specifications, and standard engineering design procedures as determined by the department.

517-3.02 WALL COMPONENTS. All Bin wall components shall be fabricated in accordance with AASHTO M-36 or M-218.

517-3.03 SELECT GRANULAR BACKFILL. As shown on the plans, select granular backfill materials for the wall structure shall be free from organic and otherwise deleterious materials and shall conform to section 703-2.07, Type A.

CONSTRUCTION REQUIREMENTS

517-4.01 GENERAL. Perform the work specified in Section 205.

517-4.02 WALL ERECTION. Place the wall units to the lines, elevations, batter, and tolerances shown on the plans. Do not place successive layers of wall units until after backfill has been placed and compacted behind the lower units. At the end of each working day provide good temporary drainage such that backfill shall not become contaminated with runoff soil or water if it should rain. Do not stockpile or store materials within 10 feet of the back of the wall. Do not operate heavy wheeled or tracked equipment within 3 feet of the back of the wall.

Compact all backfill placed behind or in the wall units to 95% density according to AASHTO T 99 method C or D, with oversize correction, at optimum moisture content ($\pm 2\%$).

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If dewatering is required to provide appropriate compaction, the contractor shall acquire the necessary permits.

517-5.01 MEASUREMENT. Freight cost will not be measured for payment. The item will not be measured for payment; the Engineers acceptance will constitute payment.

517-6.01 BASIS OF PAYMENT. Supplying design and shop drawings, all labor, materials, and equipment required to prepare the wall foundation, supplying the wall components, dewatering if necessary, constructing the retaining system, and backfilling will be considered subsidiary.

Pay Item	Pay Unit
517 (1) Prefabricated Modular Bin Wall	Lump Sum

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SECTION 603

CULVERTS AND STORMDRAINS

603-1.01 DESCRIPTION. Add the following: This work shall consist of installing 707-2.01, Corrugated Steel Pipe. (02/10/15)FORESTRY-Special Provision

Add the following Subsection:

603-3.06 CULVERT MARKER POSTS. Culvert marker posts shall be installed 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 by the Engineer. Forty-two (42) inches of post shall remain above the ground after driving.

(08/27/03)R42USC-Special Provision

603-4.01 METHOD OF MEASUREMENT. Add the following: Culvert marker posts will not be measured for payment. (08/27/03)R42USC-Special Provision

603-5.01 BASIS OF PAYMENT. Add the following: Culvert marker posts will not be paid for directly, but will be subsidiary to pipe items. (08/27/03)R42USC-Special Provision

Add the following:

Payment will be under:

Pay Item	Pay Unit
603(17-18) 18 Inch Pipe	Linear Foot

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SECTION 640

MOBILIZATION AND DEMOBILIZATION

640-1.01 DESCRIPTION. Add the following:

6. Comply with the Alaska Department of Labor and Workforce Development (DOLWD) requirements for Worker Meals and Lodging, or Per Diem; as described in their October 15, 2004 memo WHPL #197 (Amended) and the State Laborer's and Mechanic's Minimum Rates of Pay (current issue).

Ensure subcontractors comply with the DOLWD requirements.

Ensure facilities meet the Alaska Administrative Code 8 AAC 61.1010 and 8 AAC 61.1040 *Occupational Safety and Health Standards*, 18 AAC 31 *Alaska Food Code*, and U. S. Code of Federal Regulations 29 CFR Section 1910.142 *Temporary Labor Camps*.

Do not consider the cost of Meals and Lodging, or Per Diem in setting wages for the worker or in meeting wage requirements under AS 23.10.065 or AS 36.05.

(05/01/06)FORESTRY-Special Provision

640-4.01 METHOD OF MEASUREMENT Replace with the following:

1. When 4 % of the original contract amount has been earned from other bid items: 40% of the amount bid for mobilization and demobilization, or 4% of the original contract amount, whichever is less, will be paid.
2. When 8% of the original contract amount has been earned from other bid items: an additional 40% of the amount bid for mobilization and demobilization, or an additional 4% of the original contract amount, whichever is less, will be paid.
3. The remaining balance of the amount bid for this item will be paid after submittals required under the Contract are received and approved.

640-5.01 BASIS OF PAYMENT. Replace with the following: At the contract lump sum price in partial payments as described above.

Payment will be made under:

Pay Item	Pay Unit
640(1) Mobilization and Demobilization	Lump Sum

(10/21/04)R275USC04-Special Provision

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Replace this entire Section 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 Forest Practices Act.

The Alaska Department of Natural Resources (ADNR) Division of Forestry (DOF) created plan sheets B9 and C3 - Erosion and Sediment Control Plans (ESCP's). The ESCP plan sheets 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 ESCP's to meet Alaska Department of Environmental Conservation requirements for construction.

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

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 ADOT&PF and others). The Department recognizes AK-CESCLs as "qualified personnel". An AK-CESCL must be recertified every three years.

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

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

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

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

Construction Activity. Physical activity by the Contractor, Subcontractor or utility company; that may result in erosion, sedimentation, or a discharge of pollutants into storm water. Construction Activity includes soil disturbing activities (e.g. clearing, grubbing, grading,

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excavating); and construction materials or equipment storage or maintenance (e.g. material piles, borrow area, concrete truck chute washdown, fueling); and other industrial storm water directly related to the construction process (e.g. concrete or asphalt batch plants).

Construction General Permit (CGP). A permit authorizing storm water discharges from Construction Activities, issued and enforced by ADEC. The CGP is not applicable for Department work in Project Area.

Detailed Erosion Sediment Control Plan (DESCP). The Contractor's detailed project specific plan to minimize erosion and contain sediment within the Project Area, and to prevent discharge of pollutants that exceed applicable water quality standards. The DESCPC includes, but is not limited to, amendments, records of activities, inspection schedules and reports, qualifications of key personnel, and all other documentation, required by the DESCPC and this specification, and other applicable local, state, and federal laws and regulations.

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

Erosion and Sediment Control Plan (ESCP). The Department's project specific document that illustrates measures to control erosion and sediment on the project. The ESCP provides bidders with the basis for cost estimating and guidance for developing the DESCPC for use during the construction activity.

Final Stabilization. Final stabilization occurs when soil disturbing activities at the site have been completed and one of the following methods, as identified in the contract, has been completed: (a) establish a uniform and evenly distributed perennial vegetative cover with a density of 70 percent of the native background vegetative cover, or (b) construct non-erodible permanent stabilization measures (such as riprap, gabions, geotextiles, pavement, and crushed aggregate base course) where vegetative cover is not required.

Forest Resources and Practices Act and Regulations (FRPA). The Department's statutory authority for managing site conditions and the associated risks to water quality by non point pollution sources from forest operations. This is done through the use of best management practices as described in 11 AAC 95 or other Department approved methods.

Hazardous Material Control Plan (HMCP). The Contractor's 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 DESCPC.

Inspection. An inspection required by the DESCPC, usually performed together by the Contractor's Superintendent and Department's Project Engineer.

Pollutant. Any substance or item meeting the definition of pollutant contained in 40 CFR § 122.2. A partial listing from this definition includes: dredged spoil, solid waste, sewage,

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

Project Area. The physical area provided by the Department for construction. The Project Area includes the area of the facility under construction, project staging and equipment areas, and material and disposal sites; when those areas, routes and sites, are provided by the Department by the Contract and are directly related to the Contract.

Support Activities including haul routes, staging and equipment storage areas; that are furnished by the Contractor or a commercial operator; are not included in the Project Area.

Records. Any record, report, information, document, or photograph required to be created or maintained pursuant to the requirements of the DESC, the FRPA, the contract; and applicable local, state, and federal laws and regulations regarding document preservation.

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

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

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

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

Support Activities. Further defined as construction activities in which the Department is not an operator and the activity is outside the Project Area.

DESC Preparer. The Contractor's qualified representative who is responsible for developing the Contractor's initial DESC.

641-1.03 PLAN SUBMITTALS.

1. Detailed Erosion Sediment Control Plan (DESC). Submit one hard copy of the DESC to the Project Engineer for approval. Deliver this document to the Project Engineer at least 15 days before beginning Construction Activity. Organize and bind the DESC and related documents for submittal according to the requirements of Subsection 641-2.01.2. The Department will review the DESC submittals within 15 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 DESC. The 15 day review period will restart when the contractor

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submits an electronic copy and a hard copy of the revised DESCOP to the Project Engineer for approval.

2. Hazardous Material Control Plan. Submit the HMCP, as an appendix to the DESCOP, to the Project Engineer for approval. The HMCP submittal and review timeline, and signature requirements are the same as the DESCOP.

3. Spill Prevention, Control and Countermeasure Plan. When a SPCC Plan is required under Subsection 641-2.03, submit two signed hard copies of the SPCC Plan to the Project Engineer. Deliver these documents to the Project Engineer at least 21 days before beginning Construction Activity. The Department reserves the right to review the SPCC Plan and require modifications.

4. FRPA Coverage. The Department is the authorizing agency for best management practices used within the project area. The Contractor is responsible for obtaining approval from the Department for Contractor and subcontractor Construction Activities related to the Project. The Contractor cannot use the DESCOP for Support Activities outside the Project Area where the Department is not the land manager.

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

641-1.04 PERSONNEL QUALIFICATIONS.

The DESCOP Preparer must meet at least one of the following qualifications:

- a. Current certification as a Certified Professional in Erosion and Sediment Control (CPESC);
- b. Current certification as AK-CESCL, and at least two years experience in erosion and sediment control. Provide documentation including project names, project timelines, and work responsibilities demonstrating the experience requirement; or
- c. Professional Engineer registered in the State of Alaska with current certification as AK-CESCL

The Superintendent must meet the following qualifications:

- a. Current certification as AK-CESCL.

The Department accepts people having any of the following certificates as equivalent to AK-CESCL, if the certificates are current according to the sponsoring organization's policies:

- a. CPESC, Certified Professional in Erosion and Sediment Control; or
- b. CISEC, Certified Inspector in Sediment and Erosion Control

641-1.06 RESPONSIBILITY FOR FRPA COVERAGE.

1. The Department and the Contractor are jointly responsible for complying with FRPA within the Project Area.

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2. The Contractor is responsible for permitting and permit compliance outside the Project Area for Support Activities. The Contractor has sole responsibility for compliance with other applicable federal, state, and local requirements, and for securing all necessary clearances, rights, and permits. Subsection 107-1.02 describes the requirement to obtain permits, and to provide permit documents to the Project Engineer.

3. An entity that owns or operates, a commercial plant (as defined in Subsection 108-1.01.3) or material source or disposal site outside the Project Area, is responsible for permitting and permit compliance. The Contractor has sole responsibility to verify that the entity has appropriate permit coverage. Subsection 107-1.02 describes the requirement to obtain permits, and to provide permit documents to the Project Engineer.

4. 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 or Support Activities outside the Project Area and
- b. For commercial plants, commercial material sources, and commercial disposal sites.

641-2.01 DETAILED EROSION SEDIMENT CONTROL PLAN (DESCP) REQUIREMENTS.

1. DESCP Preparer and Pre-Construction Site Visit. Use qualified personnel to develop the DESCP and associated documents to meet the requirements of the FRPA. The DESCP Preparer must put their name, qualifications (including the expiration date of any certifications), title and company name in the DESCP.

The DESCP Preparer must conduct a pre-construction inspection of the Project site before construction activity begins. Site visits may be phased; the construction site must be visited by the preparer and an approved DESCP in place fifteen days prior to the Contractor working in the plan area.

If the DESCP Preparer is not a Contractor employee, the DESCP Preparer must visit the site accompanied by the Contractor. Give the Department at least seven days notice of the site visit, so that the Department may participate.

During the pre-construction inspection, the DESCP Preparer must identify, or if a draft of the DESCP has already been prepared verify that the DESCP fully addresses and describes:

- a. Appropriate BMPs and their sequencing; and
- b. Sediment controls that must be installed prior to beginning Construction Activities.

2. Developing the DESCP. A plan sheet titled "Standard Creek Material Site MS—02 Detailed Erosion Sediment Control Plan" is provided for use in developing the DESCP. Use the Department's ESCP and other Contract documents as a starting point for developing an approved DESCP. The Contractor's approved DESCP replaces the Department's ESCP.

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Develop the DESCOP framework according to the Departments ESCP outline with additional information as required.

Develop the DESCOP according to this specification, and account for the Contractor's construction methods.

Minimize unstabilized areas to achieve temporary or final stabilization quickly. Whenever practicable incorporate final stabilization work into excavation, embankment, and grading activities.

State in the DESCOP that Inspections are conducted once every seven (7) days, and as required during continuous precipitation or sequential storm events.

The DESCOP is a dynamic document. Keep the DESCOP current by noting installation, modification, and removal of BMPs, and by using amendments, Inspection Reports, records of land disturbance and stabilization, and any other records necessary to document storm water pollution prevention activities and to satisfy the requirements of this specification.

3. Recording Personnel and Contact Information in the DESCOP

Include in the DESCOP, Records of the AK-CESCL cards or certificates for the Superintendent. If the Superintendent is replaced permanently or temporarily; record in the DESCOP the names of the replacement personnel, the date of the replacement. For temporary personnel record their beginning and ending dates.

Provide 24 hour contact information for the Superintendent.

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

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

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

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

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

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

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

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

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

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

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

Reference the SPCC Plan in the HMCP and DESC.

641-2.04 RESPONSIBILITY AND AUTHORITY OF THE SUPERINTENDENT. The Superintendent is responsible for the overall operation of the Project and all Contractor

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furnished sites and facilities directly related to the Project. The Superintendent shall sign and certify the DESC. The Superintendent may not delegate the task or responsibility of signing and certifying the DESC submitted under Subsection 641-1.03.1.

The Superintendent may assign certain duties to qualified personnel; those duties may include:

1. Ensuring Contractor's and subcontractor's compliance with the DESC;
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 DESC including adding amendments and forms.

The Superintendent and the assigned personnel shall be knowledgeable in the requirements of this Section 641, the DESC, BMPs, HMCP, SPCC Plan, environmental permits, environmental commitments, and historic preservation commitments.

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

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 DESC and the Specifications.

641-2.06 CONTRACTOR REQUIREMENTS. The Contractor must be familiar with the requirements of the FRPA and the DESC because Contractor's employees will be conducting duties that relate to compliance with the FRPA.

CONSTRUCTION REQUIREMENTS

641-3.01 CONSTRUCTION REQUIREMENTS.

1. Before Construction Activity may Begin.

a. Confirm the following:

- 1) The DESC Preparer must visit the Project, the visit must be documented in the DESC, and the DESC must be developed (or amended) with findings from the visit;
- 2) The DESC must be approved by the Project Engineer;
- 3) The Contractor must be authorized to begin by the Project Engineer;

b. Install sediment controls and implement operational BMPs in a timely manner appropriate for the Construction Activity. The cutting of trees and brush is allowed without disturbing the vegetative mat, prior to installing sediment controls.

2. During Construction.

Make copies of the applicable portions of the DESC available to subcontractors before they begin soil disturbing activities. Inform subcontractors of amendments that affect them in a

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timely manner. Ensure all subcontractors who engage in soil-disturbing activities understand and comply with the DESC. Coordinate with subcontractors doing work in the Project Area so that BMPs, including temporary and permanent stabilization, are installed, maintained, and protected from damage.

Notify the Project Engineer immediately if the actions of any subcontractor do not comply with the DESC.

3. Pollutant and Hazardous Materials Reporting Requirements.

Fuel in designated areas. Place absorbent pads or other suitable containment under fill ports while fueling, and under equipment during maintenance or repairs. Install secondary containment under all stationary equipment that contains petroleum products.

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.

Keep the HMCP current.

4. Corrective Action and Maintenance of BMPs.

a. Implement corrective action:

- 1) If an incident of non-compliance with the DESC is identified;
- 2) If an Inspection identifies the DESC or any part of the DESC is ineffective in preventing erosion, sedimentation or the discharge of pollutants;
- 3) If the Project Engineer determines the DESC or any part of the DESC is ineffective in preventing the erosion, sedimentation, or the discharge of pollutants;
- 4) If a required BMP was never installed, was installed incorrectly;
- 5) If any BMP is not operating as intended, or has not been maintained in an effective operation condition, or is unable to effectively perform the intended function;
- 6) Before sediment or debris fills a BMP to the percentage of design capacity (or manufacturer's specifications or DESC requirements, whichever is lower);
- 7) Whenever there is a change in conditions, design, construction, operation, or maintenance that could result in erosion, sedimentation, or the discharge of pollutants;
- 8) If a prohibited discharge is occurring or will occur; or
- 9) If there are accumulations and tracking of sediment or other pollutants, in or near any storm water conveyance channels, on roadways or parking lots within and adjacent to the project area, in the immediate vicinity of control measures or discharge points or in other areas within the project area.

b. Implement corrective actions so that all of the following time requirements are satisfied:

- 1) Conditions that are easily remedied (i.e. removal of tracked sediment, maintenance of control measure, or spill clean-up), initiate corrective action within 24 hours and complete as soon as possible;
- 2) Corrective action is completed in time to protect water quality; and

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- 3) Corrective action is completed no later than the Complete-by-Date that was entered in an Inspection Report.

If a corrective action is not implemented within the time requirements of this section, notify the Project Engineer, and implement corrective action as soon as possible.

5. Stabilization.

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

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

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

Temporarily stabilize from wind and water erosion portions of disturbed soils, portions of stockpiles, and portions of disposal sites, that are not in active construction. Temporary stabilization measures may require a combination of measures including but not limited to vegetative cover, mulch, stabilizing emulsions, blankets, mats, soil binders, non-erodible cover, dust palliatives, or other approved methods.

6. Streams.

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

Install temporary and permanent stabilization:

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

6. Ending BMP Maintenance.

The Project Engineer will determine the date that all the following conditions have been met within the Project Area:

- a. Land disturbing activities have ceased;

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- b. Final Stabilization has been achieved (including at Department furnished material sources, disposal sites, staging areas, equipment areas, etc.); and
- c. Temporary BMPs have been removed.

After the Project Engineer has determined the conditions have been met, the Department will:

- a. Send written notice to the Contractor with the date that the conditions were met.

7. Transmit final DESC

Transmit one copy of the final DESC, including all amendments and appendices, to the Project Engineer at the end of the project

641-3.02 DESC DOCUMENTS, LOCATION ON-SITE, AVAILABILITY, AND RECORD RETENTION.

The DESC and related documents maintained by the Contractor are the Record for demonstrating compliance with FRPA.

Keep the DESC, HMCP and SPCC Plan at the on-site project office. If there is not an on-site project office, keep the documents at a location approved by the Project Engineer. Records may be moved to another office for record retention after the end of the project. Records may be moved to another office during winter shutdown. Provide the Department with copies of all Records.

The DESC and related documents must be made available for review and copy, to the Department and other regulatory agencies that request them. 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.

641-3.03 DESC INSPECTIONS, AMENDMENTS, REPORTS, AND LOGS.

Perform and document inspections, prepare DESC Amendments in compliance with the ESCP. Update DESC Grading and Stabilization Activities Log. For active projects update the Records daily.

1. Inspection during Construction.

Conduct Inspections at least every seven (7) days.

Inspections must be performed by the Contractor's DESC Lead or Superintendent. The Department's Project Engineer shall be contacted 24 hours prior to an Inspection. The Department's Project Engineer shall be present during inspections if available. If Department's Project Engineer is unavailable to attend the Inspection, the Contractor shall provide a copy of the Inspection to the Project Engineer within three days of the Inspection date and pictures taken during the inspection.

2. Inspection Reports.

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Use only the ADNR DESCPC 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 included on the Inspection Report form; do not leave any field blank.

Unless otherwise directed by the Project Engineer, insert a Complete-by-Date for each corrective action listed that is (1) a date that complies with the time requirements listed in Subsection 641-3.01.4, or (2) seven days from the date of the inspection, whichever is sooner. Provide a copy of the completed, unsigned Inspection Report to the Project Engineer by noon of the day after inspection.

The Superintendent must review the Inspection Report. The Project Engineer may coordinate with the Superintendent to review the Inspection 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. Deliver a copy of the signed and certified Inspection Report to the Project Engineer with three days.

The Project Engineer may recommend corrections on the Inspection Report after the Superintendent has signed and certified the Inspection Report. If the Superintendent 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 Project Engineer on the day it is recertified.

3. Inspection before Seasonal Suspension of Work.

Conduct an inspection before seasonal suspension of work to confirm BMPs are installed and functioning according to the requirements of the DESCPC.

4. Reduced Inspection Frequencies.

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

Resume recording land disturbance and stabilization activities on the Grading and Stabilization Activities Log when construction activity resumes.

5. 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.

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6. Items and Areas to Inspect.

Conduct Inspections of the areas near surface waters and as identified by the DESCP.

7. DESCP Amendments.

The Superintendent and the DESCP Lead are the only persons authorized to amend the DESCP. The Superintendent or the DESCP Lead must sign and date amendments to the DESCP.

DESCP Amendments must be approved by the Project 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 DESCP;
- b. If an Inspection identifies that any portion of the DESCP is ineffective in preventing erosion, sedimentation, or the discharge of pollutants;
- c. Whenever an Inspection identifies a problem that requires additional or modified BMPs
- d. Whenever a BMP is modified during construction, or a BMP not shown in the original DESCP is added;
- e. If the Inspection frequency is modified (note beginning and ending dates); or
- f. When there is a change in personnel who are named in the DESCP, according to Subsection 641-2.01.4.

Amend the DESCP narrative 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. Every DESCP Amendment must be signed and dated. Cross-reference the amendment DESCP page number, as applicable. When a BMP is modified or added, describe the BMP according to Subsection 641-2.01.2.

8. Site Maps.

Document installation, routine maintenance, and removal of BMPs by making notes on the DESCP Site Maps. Include the date and the recording person's initials by these notes. Identify areas where Construction Activities begin, areas where Construction Activities temporarily or permanently cease, and areas that are temporarily or permanently stabilized.

10. Grading and Stabilization Activities Log.

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The DESCOP Lead and Superintendent are the only persons authorized to date and initial entries on the DESCOP Grading and Stabilization Activities Log, Form 25D-110. Use the DESCOP 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 Project Engineer prior to performing each scheduled DESCOP Inspection.

Keep the Grading and Stabilization Activities Log as an appendix to the DESCOP.

641-3.04 FAILURE TO PERFORM WORK. The Project Engineer has authority to suspend work and withhold monies, for an incident of non-compliance with the DESCOP that may endanger health or the environment. If the suspension is to protect workers, the public, or the environment from imminent harm, the Project Engineer may orally order the suspension of work. Following an oral order of suspension, the Project Engineer will promptly give written notice of suspension. In other circumstances, the Project Engineer will give the Contractor written notice of suspension before suspension of work. A notice of suspension will state the defects or reasons for a suspension, the corrective actions required to stop suspension, and the time allowed to complete corrective actions.

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

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

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

641-4.01 METHOD OF MEASUREMENT. Section 109.

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

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

**TABLE 641-1 BMP VALUES
- RESERVED**

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

EROSION, SEDIMENT, AND POLLUTION CONTROL – LIQUIDATED DAMAGES

Code	Specification Subsection Number and Description	Deductable Dollars	Cumulative Deductable Dollars
A	641-1.04 Failure to have a qualified (AK-CESCL or equivalent) Superintendent or DESC Manager	Calculated in Code B or F	
B	Failure to meet ESCP requirements of: (1) 641-2.01.1 Name of DESC Preparer and Date of Pre-Construction Inspection (2) Not Applicable (3) 641-3.03.8 Sign and Date DESC amendments with qualified person. 641-2.01.4 DESC Include approving person's name and AK-CESCL expiration date. (4) 641-3.02 Records maintained at project and made available for review	\$750 per omission	
C	641-2.01.3 and 641-303.8 Failure to either reference a BMP manual or publication, or state that no BMP manual or publication was used	\$250 per omission	
D	641-3.03.5 Failure to stabilize a Project prior to Seasonal Thaw	\$5,000 per Project per year	
E	641-2.01.1 Failure to conduct pre-construction inspections before Construction Activities	\$2,000 per Project	
F	641-3.03. Failure to conduct and record Inspections 641-3.03.1 Personnel conducting Inspections and Frequency 641-3.03.2 Inspection Reports, use Form 25D-100, completed with all required information paragraph 7.c, parts (1) through (11)	\$750 per Inspection	
G	641-3.01.4 Failure to timely accomplish BMP maintenance and/or repairs, In effect until BMP maintenance and/or repairs is completed.	\$500 per Project per day	Not to exceed \$250,000 per year for all projects

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H	641-3.01.3 Failure to provide to the Project Engineer a timely oral endangerment report of violations or for a deficient oral endangerment report	\$750 for the first day the report is late or deficient	Additional \$750 for every 14 day period without the required information
I	641-3.01.3 Failure to provide to the Project Engineer a timely written endangerment report of violations or for a deficient written endangerment report	\$750 for the first day the report is late or deficient	Additional \$750 for every 14 day period without the required information

Item 641(1) 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, DESCP and HMCP preparation, Storm Water Lead (when not included as a separate Pay Item under 641(7)) DESCP amendments, pre-construction Inspections, Inspections, monitoring, reporting, and Record keeping or copying Records related to the DESCP and required by FLUP, and Record retention.

Work required by the HMCP and SPCC Plan including hazardous material storage, containment, removal, cleanup and disposal, are subsidiary to Pay Item 641(1) Erosion, Sediment and Pollution Control Administration.

Item 641(2) Temporary Erosion, Sediment and Pollution Control. At the contingent sum prices specified for all labor, supervision, material, equipment, and incidentals to install, maintain, remove and dispose of approved temporary erosion, sedimentation, and pollution control BMPs required to implement the DESCP and SPCC Plan.

Item 641(6) DESCP Price Adjustment. Withholding according to Section 641-3.04, equal to any penalties and fines levied against the Department by local, state, or federal agencies for pollutant violations, including violations of the CWA, FRPA, and any other Permit, except when due to the Department's sole negligence. The Contractor is also responsible for the payment of any and all penalties and fines levied against the Department or Contractor by entities (including agencies) other than the Department.

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

Subsidiary Items. Temporary erosion, sediment, and pollution control measures that are required outside the Project Area are subsidiary. Work required by the HMCP and SPCC Plan including hazardous material storage, containment, removal, cleanup and disposal, are subsidiary to Item 641(1) Erosion, Sediment and Pollution Control Administration.

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

- a. Dewatering;

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

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

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

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SECTION 642

CONSTRUCTION SURVEYING AND MONUMENTS

642-1.01 DESCRIPTION. Add the following: Work described under this section shall be performed by qualified personnel, necessary equipment, and material to survey, stake, calculate, and record data for the control of work. Technically qualified survey crews shall be experienced in highway construction survey and staking. Provide personnel capable of performing in a timely and accurate manner. An acceptable crew supervisor shall be on the project whenever surveying/staking is in progress. (05/01/06)PARKS-Special Provision

642-2.01 MATERIAL. Add the following: Furnish acceptable tools, supplies, and stakes of the type and quality normally used in highway survey work and suitable for the intended use. Furnish stakes and hubs of sufficient length to provide a solid set in the ground with sufficient surface area above ground for necessary legible markings.

Use required stake dimensions and materials. Pre-paint the top 2 inches of all stakes and lath, or mark them with plastic flagging. Use designated colors for paint or flagging. Mark all stakes with a stake pencil that leaves a legible imprint, or with waterproof ink. Do not use aerosol spray paints.

(05/01/06)PARKS-Special Provision

642-3.01 GENERAL. Add the following: Include staking activities in construction schedule.

Preserve all initial reference stakes and flagging. After initial sub-grade work, replace all destroyed or disturbed initial reference or centerline stakes and ribbon necessary to the work.

Remove and dispose of all flagging, lath, stakes, and other staking material after the project is complete.

(05/01/06)PARKS-Special Provision

642-3.03 MONUMENTS. Replace the five remaining sentences of the first paragraph after the first sentence, with the following: Reference property markers/corners, monuments or accessories which may be disturbed or buried during construction. Prepare and record Monument Record Forms in the appropriate Recorder's Office before disturbing monuments. Monument Record Forms may be obtained from the project engineer. Reestablish monuments in their original position before the completion of the Project. Then, prepare and file a Monument Record Form for each reestablished monument. (2/25/05)R61USC04-Special Provision

(8/29/07) Forestry- Special Provision

SPECIAL PROVISIONS

Project Number 39030-1

Standard Creek Material Site & Fortune Creek Bridge Replacement

642-4.01 METHOD OF MEASUREMENT. Replace this Subsection the following: Work described under this Section will not be measured separately for payment but shall be considered subsidiary to the entire project. (05/01/06)PARKS-Special Provision

642-5.01 BASIS OF PAYMENT. Replace this Subsection with the following: Work described under this Section will not be paid for separately. (05/01/06)PARKS-Special Provision

SECTION 643

TRAFFIC MAINTENANCE

643-3.01 GENERAL CONSTRUCTION REQUIREMENTS. Add the following: Immediately notify the project 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. (02/05/04)E10-Standard Modification

Add the following:

Whenever construction activity encroaches onto the safe route in a traffic control zone, active trail i.e. mushing, snow-machine, ATV, station a flagger at the encroachment to assist users past the construction activity.

(04/08/05)R222USC04-Special Provision

643-3.04 TRAFFIC CONTROL DEVICES.

In the sixth paragraph, replace the words "ATTSA" with "ATSSA". (06/30/04)E16-Standard Modification

Replace the first sentence of the eighth paragraph with the following: Items paid under this Section remain the Contractor's property unless stated otherwise. (04/08/05)R222USC04-Special Provision

Replace item 4.b. with the following: Flagger Certification by ATSSA. (04/08/05)R222USC04-Special Provision

Add the following:

"Active Logging Road..." sign will be erected the beginning of the project. Contractor shall submit shop drawings for this structure.

Add the following new Subsection:

643-3.11. HIGH VISIBILITY CLOTHING. Ensure all workers within project limits wear an outer visible surface or layer that conforms to Class 2 at all times. Class 2 requires at least 775 square inches of conforming fluorescent red-orange background material and at least 201 square inches of conforming retroreflective striping. Retroreflective striping shall be fluorescent yellow-green combined-performance material. When workers are inside an enclosed compartment of a vehicle, they are not required to wear high visibility clothing.

(5/01/06)PARKS-Special Provision

SPECIAL PROVISIONS

Project Number 39030-1

Standard Creek Material Site & Fortune Creek Bridge Replacement

643-4.01 METHOD OF MEASUREMENT. Replace the entire Subsection with the following:

Work described under this Section will not be measured separately for payment but shall be incidental to the project.

(05/01/06)PARKS-Special Provision

643-5.01 BASIS OF PAYMENT. Replace the entire Subsection with the following:

Work described under this Section will not be paid for separately.

(05/01/06)FORESTRY-Special Provision

SECTION 703

AGGREGATES

Add the following Subsections:

703-2.17 ROCK FILL, SELECTED MATERIAL. Furnish granular material free of excess moisture, muck, frozen lumps, roots, sod, or other deleterious material conforming to the following:

- (a) Maximum particle size 8 inches
- (b) A free draining well graded material locally produced from the designated borrow site to be developed.

703-2.18 UNCLASSIFIED BEDDING. Furnish granular material free of excess moisture, muck, frozen lumps, roots, sod, or other deleterious material conforming to the following:

- (a) Maximum particle size 4 inches
- (b) A free draining well graded material locally produced from the designated borrow site to be developed.

SPECIAL PROVISIONS

Project Number 39030-1

Standard Creek Material Site & Fortune Creek Bridge Replacement

**APPENDIX A
STANDARD CREEK OVERVIEW MAP,
DETAIL MAP, AND MATERIAL SITE
LOCATION**

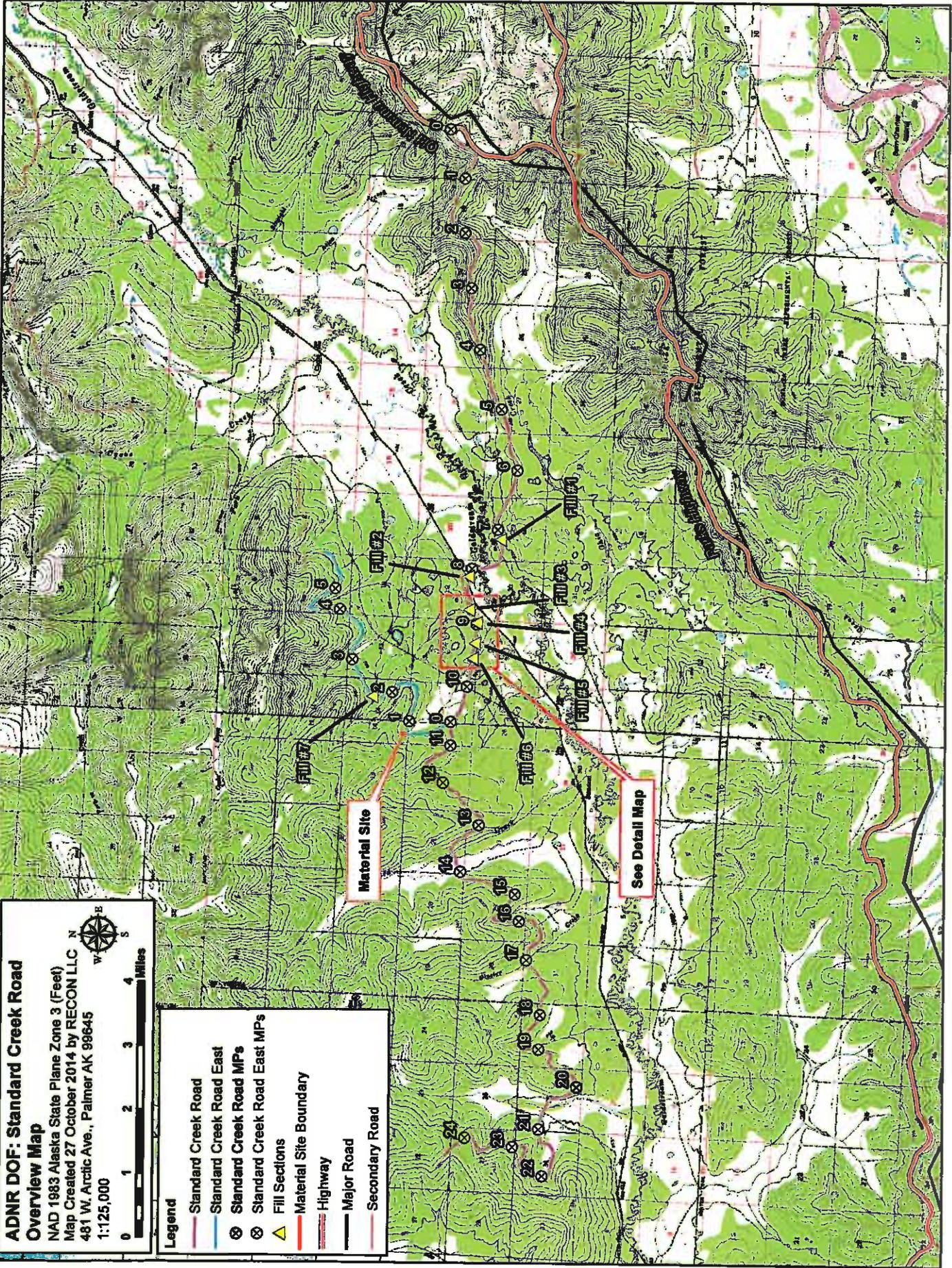
ADNR DOF: Standard Creek Road Overview Map

NAD 1983 Alaska State Plane Zone 3 (Feet)
Map Created 27 October 2014 by RECON LLC
481 W. Arctic Ave., Palmer AK 99645
1:125,000



Legend

- Standard Creek Road
- Standard Creek Road East
- Standard Creek Road MPs
- Standard Creek Road East MPs
- Fill Sections
- Material Site Boundary
- Highway
- Major Road
- Secondary Road



ADNR DOF: Standard Creek Road

Detail Map: Miles 8.5-9.5

NAD 1983 Alaska State Plane Zone 3 (Feet)
Map Created 8 October 2014 by RECON LLC
481 W. Arctic Ave., Palmer AK 99645

1:6,000

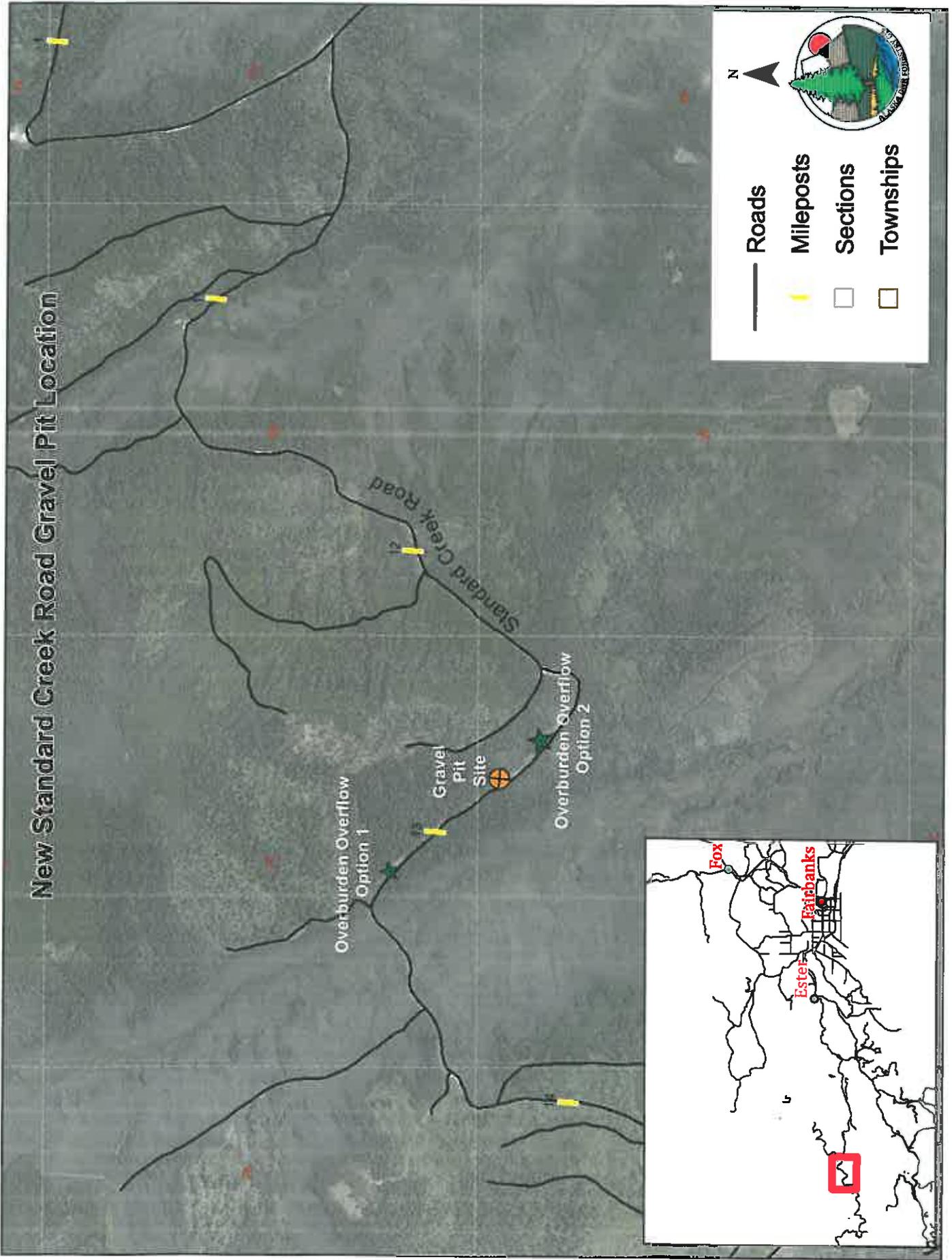


Legend

- Standard Creek Road
- Standard Creek Road MPs
- Fill Sections
- Culvert Location



New Standard Creek Road Gravel Pit Location



APPENDIX B

SURVEY REQUIREMENTS

1. Alaska Construction Surveying Requirements (US Customary Units)



**Alaska
Department of
Transportation
and
Public Facilities**

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

Alaska Construction Surveying Requirements (US Customary Units)

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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

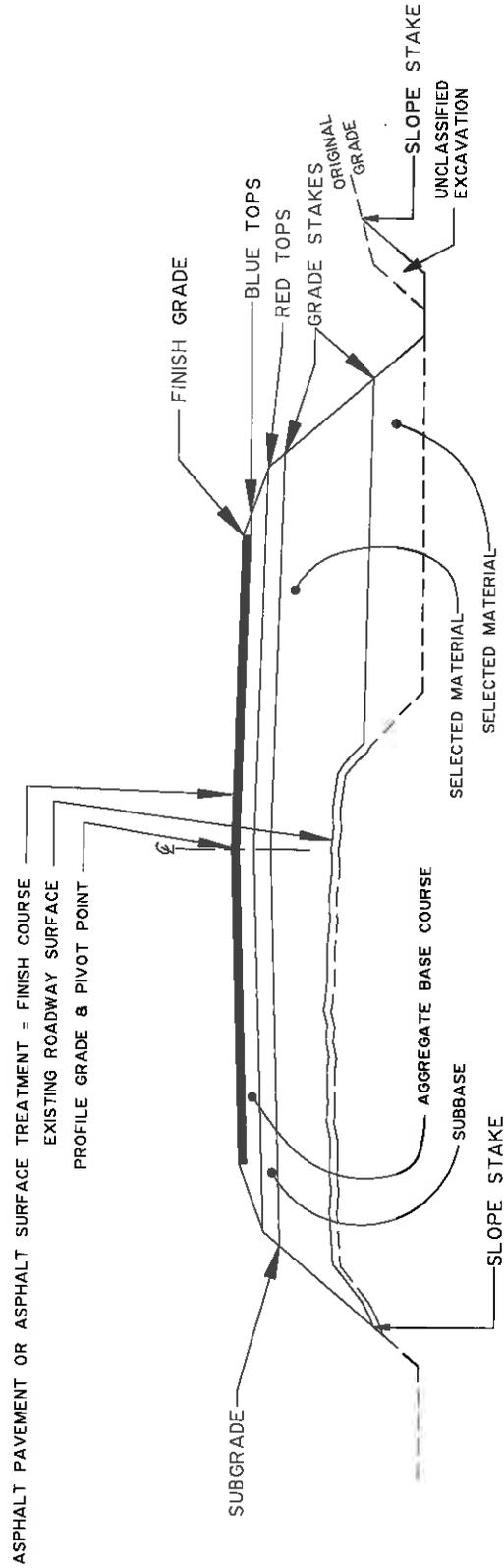
Table 2—Survey frequency requirements (in feet)

	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



TYPICAL SECTION

NOT TO SCALE

3. Survey point materials requirements

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

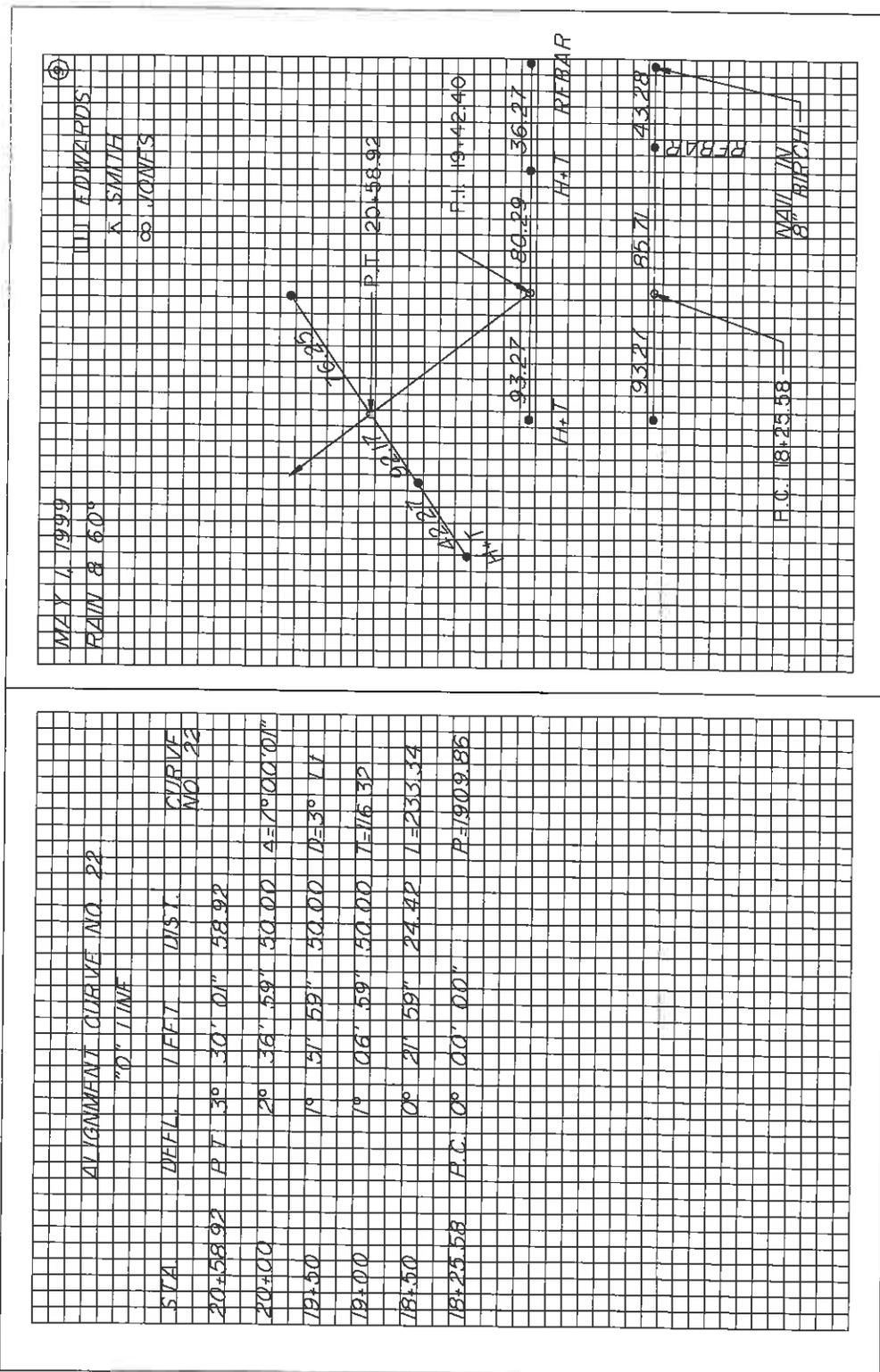
Table 3—Survey point materials requirements

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

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

4. Typical alignment notes

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



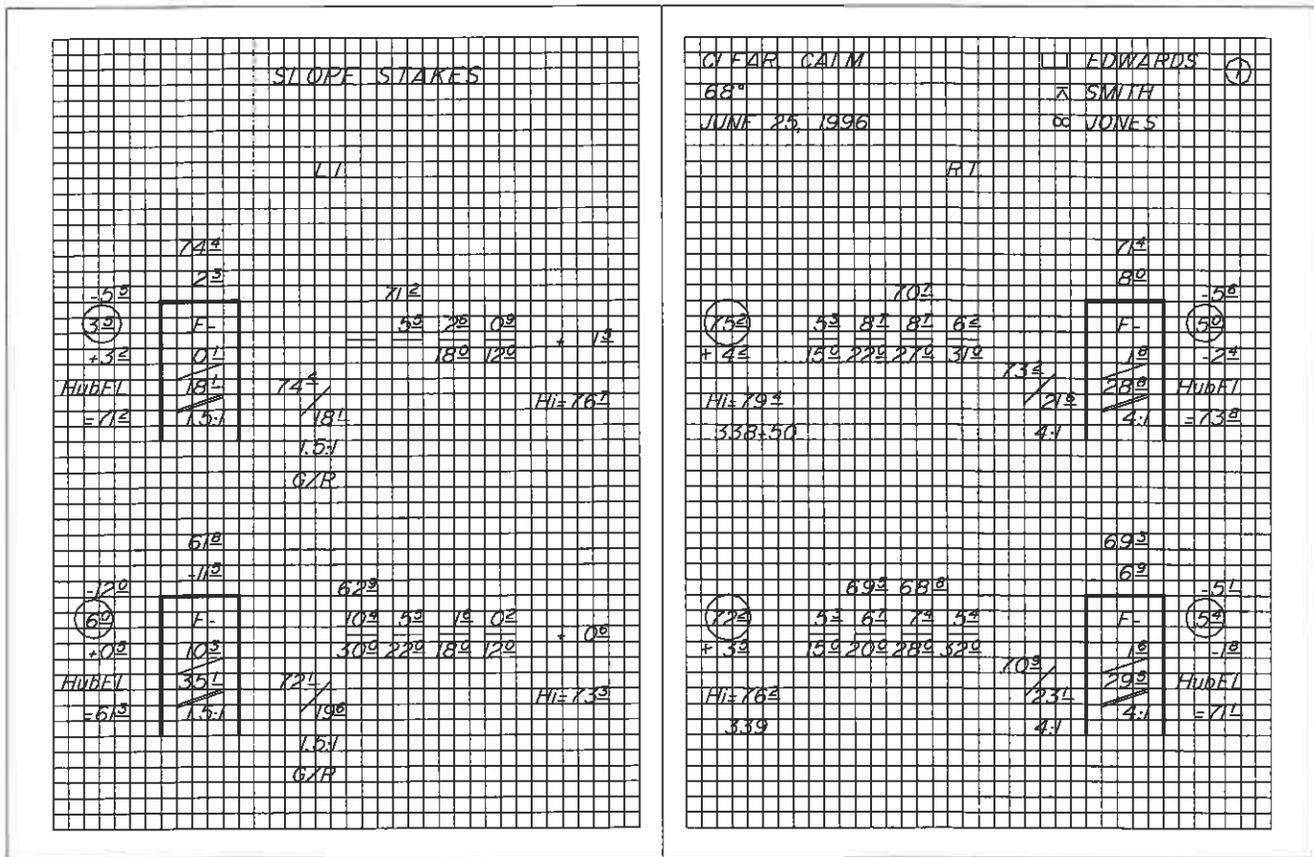
6. Typical level notes

- ✓ 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.

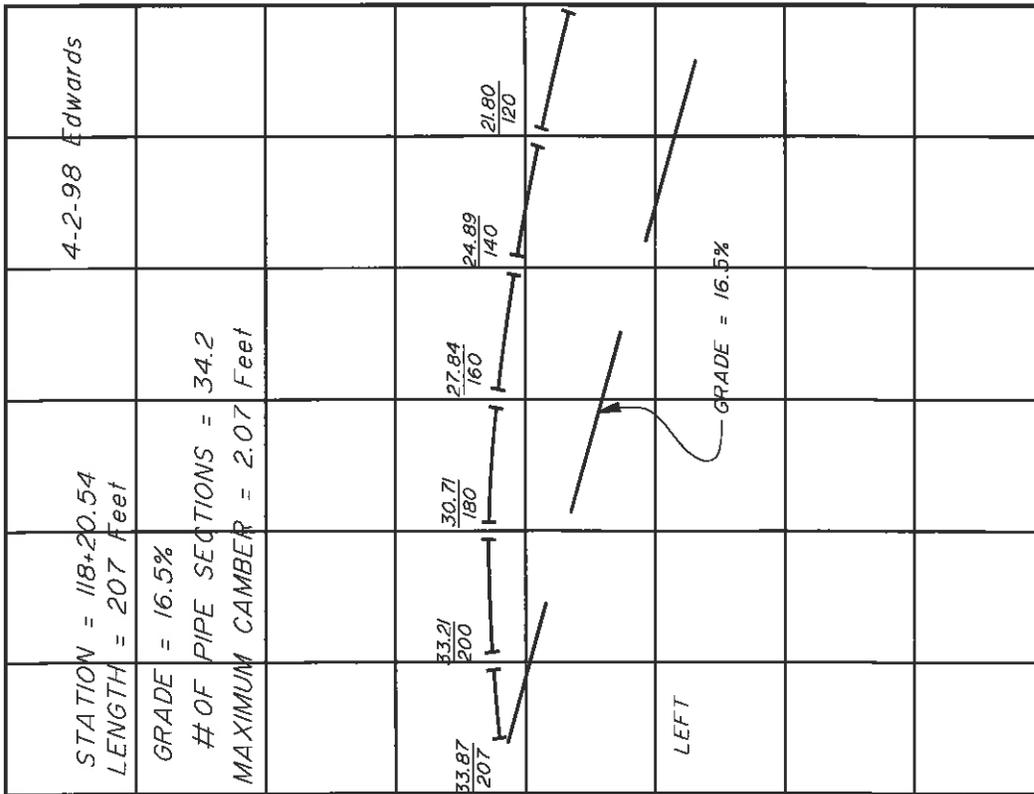
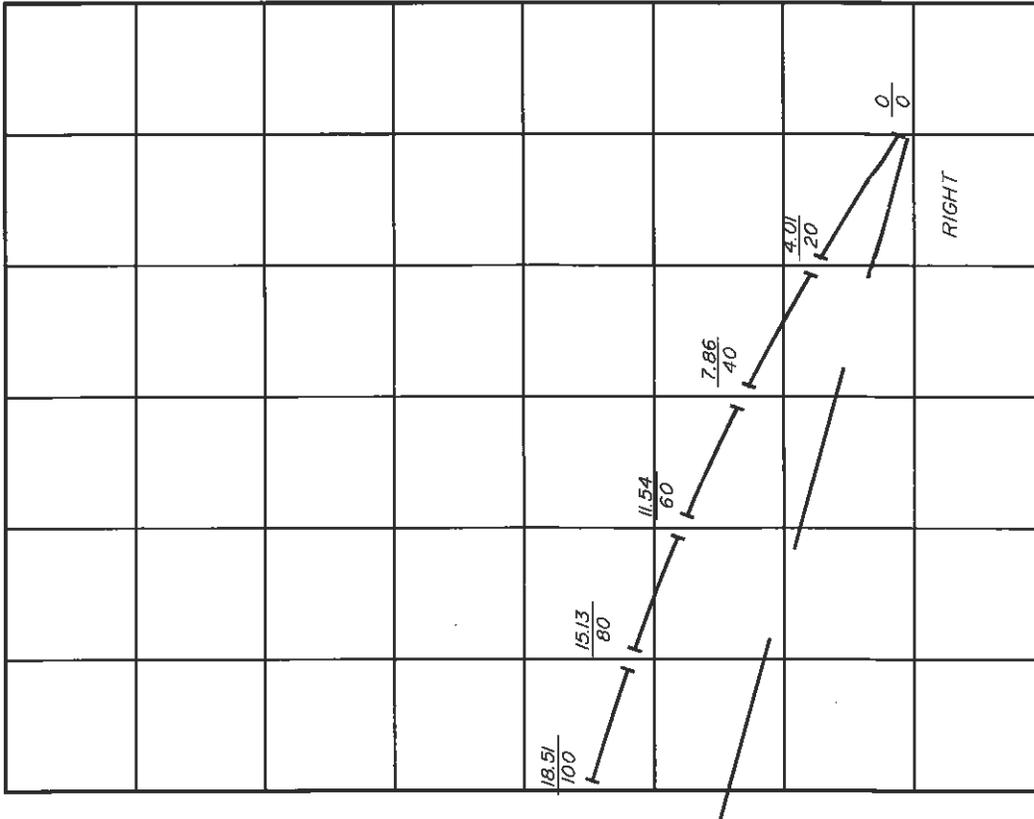
STA.	BS+	HI	FS-	ELEV.	45'± CLEAR WARM CALM			⊗ □	EDWARDS
					WILD 413579	3-23-90		⊕	SMITH
TBM #101									
6+72				161.309	Nail in base of 12" Spruce				
	3.877	165.186			85' 10" LT.				6+72
6+00			1.95	163.24					
6+25			2.32	162.87					
6+50			2.96	162.23					
T.P.			3.246	161.940					
	1.103	163.043							
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.

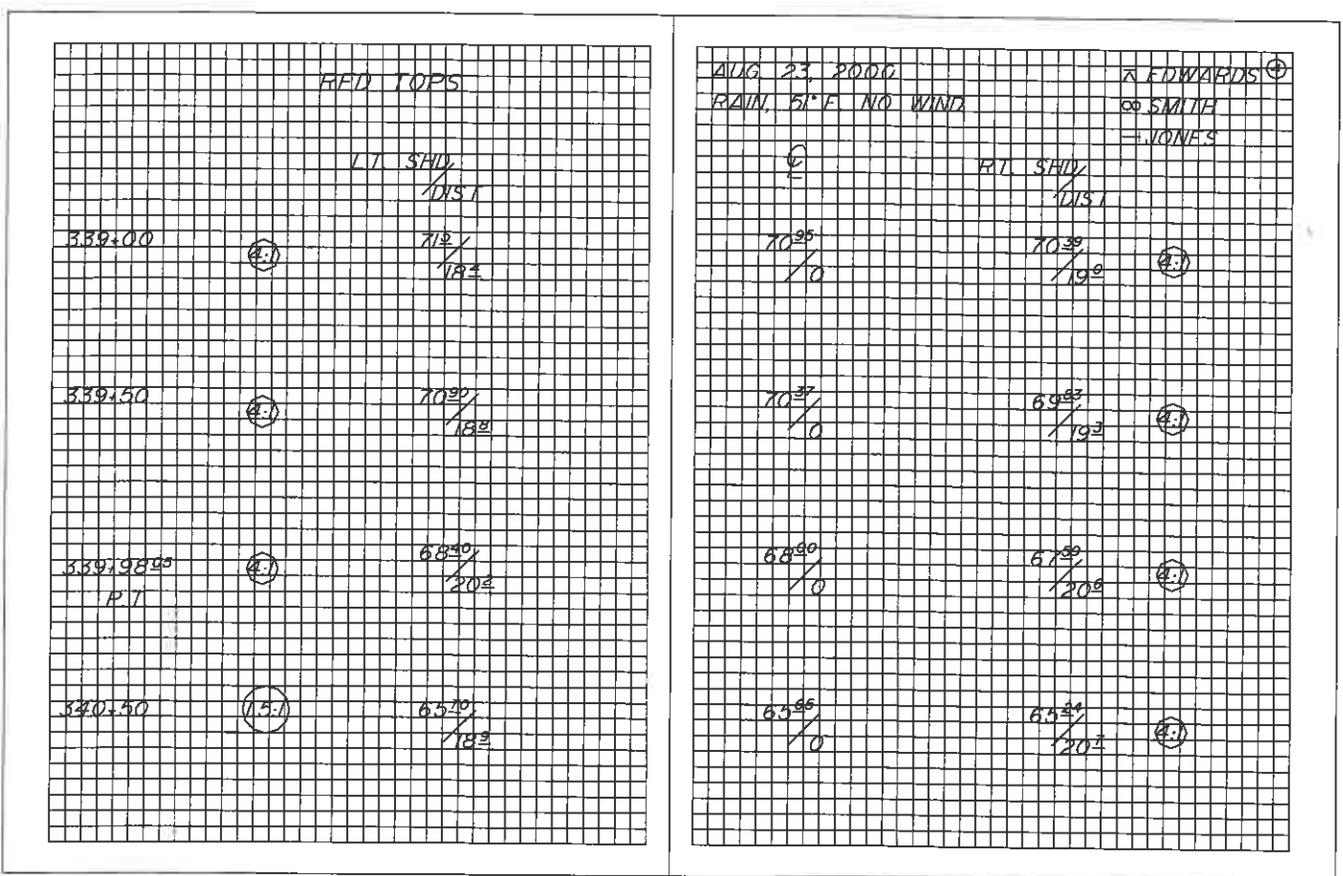


9. Typical culvert camber diagram



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 TANANA VALLEY STATE FOREST MANAGEMENT PLAN

As part of the contract the contractor must abide by the Tanana Valley State Forest (TVSF) Management Plan.

http://forestry.alaska.gov/management/tvsf_final_plan

APPENDIX D

MATERIALS REPORTS

Materials Reports are not available for this project. 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.

APPENDIX E

STANDARD CREEK ROAD REPAIRS FIELD INSPECTION

The Alaska Department of Natural Resources (ADNR) Division of Forestry (DOF) has provided the following report to help clarify work to be completed at the Standard Creek Road. The locations of culverts to be installed and locations of start and stop for fill are provided within this report. Prior to the start of construction, the Engineer will locate exact locations for culvert installation and start/stop locations for fill material.



Rowland Engineering Consultants

481 West Arctic Avenue, · Palmer, Alaska 99645
907.746.3630 · 907.355.3006 cell · steve@reconllc.net

October 29, 2014

State of Alaska
Department of Natural Resources
Division of Forestry
Roads, Infrastructure, and Bridges Section
101 Airport Rd
Palmer, AK 99645

Attn.: Ed Soto

Re: Standard Creek Road Repairs

Mr. Soto:

Per your request, RECON LLC has recently completed an inspection of Standard Creek Road west of Fairbanks. The purpose of the inspection was to examine several areas noted by the area Forester as being subject to rapid deterioration during rain events and causing traffic stoppage along the road. The following report details the findings of field inspections completed on September 12 and October 22, 2014, and includes engineering recommendations for long-term repairs sufficient to allow low-level traffic by logging equipment accessing the Tanana Valley State Forest.

Field Inspection

The primary field inspection of the Standard Creek Road was completed by Isaac Rowland, PE, on September 12, 2014. The road was in a relatively dry condition at the time of inspection. The area of focus for the inspection was between MP 7.0 and MP 10.0 with an additional examination of an existing borrow site on the road system.

It should be noted that locations designated by road mileage are approximate. Mile marks were calculated based on a GPS trace of the existing road, and were found not to match existing wooden mile markers in the field (+0.2 miles) or DNR-provided maps (-0.5 miles).

The Standard Creek Road consists of a primitive, single-lane logging road constructed primarily of native loess soils. The road surface is commonly below the original ground in upland areas and consists of loess fill over geotextile fabric in lowland sections. The problem areas identified are primarily located in lowland sections and can be attributed to poor or ineffective drainage of the road bed combined with the unsuitability of loess for heavy traffic. Refer to attached maps for locations of fill sections and culverts. The following areas have been recommended for repair:

MP 7.1 & MP 8.1

Both areas consist of low areas in the road bed that collect water during and after rain events. This has resulted in rutting and further deterioration of the low areas over time.



Photo 960 – MP 7.1



Photo 959 – MP 8.1

RECON recommends that both areas be repaired with the addition of geotextile and rock fill. An estimated 260 yds of rock per location will be required. Repairs should be undertaken per Typical Section 1 (attached).

MP 8.8

This section consists of a small, swampy drainage crossing the road from north to south. An existing 12” culvert (CMP 1) is in place, but it was observed to have settled into the underlying soil and to be only partially effective. In addition, water draining into the uphill ditch on both sides of the culvert was noted to be significantly increasing the load on the existing culvert installation. The road bed in this section was constructed of native loess and is subject to rutting and erosion when saturated.



Photo 932 – Culvert inlet location at MP 8.8 showing mud and ponded water on the upstream side

RECON recommends the replacement of the ineffective existing culvert with a larger 18” CMP and the addition of a second 18” CMP cross-drain culvert (CMP 2) approximately 250 ft upstation of the existing culvert. In addition, RECON recommends the placement of new geotextile over the existing road and a minimum of 18” rock fill to be placed as a driving surface over approximately 520 linear ft of the road through the low area.

MP 9.3

This section consists of 1,200 ft of road bed, primarily below original ground surface. Extensive ditch work was completed during 2014 in an attempt to move water away from the road in this area. The ditch work appears to have been completed under very soft soil conditions, and some erosion had taken place, as well as damage to the existing 12" CMP. In addition, it was noted that the original geotextile has been extensively damaged by past road repair attempts and is no longer providing any useful benefit.



Photo 941 – Ditch and road section near MP 9.3



Photo 944 – Damaged culvert and eroded ditch section

RECON recommends that the ditched sections be re-graded and tracked to limit further erosion. The existing 12" culvert (CMP 5) should be replaced, and two additional 18" CMP cross-drain culverts (CMP 4 & CMP 6) should be installed to reduce water retention by the road bed. A new driving surface should be constructed of geotextile fabric and rock fill over 1,200 ft of road section as shown in Typical Section 2 (attached).

MP 9.6

This section consists of a small swampy drainage with an existing 12" CMP culvert (CMP 7). The culvert is partially blocked on the inlet end, and the road and ditch were retaining water in this area. The road bed was very soft at the time of visit, with deep ruts and poor ditch drainage. A recent effort had been made to deepen and improve the drainage of the water away from the road on the downhill side with limited success. Drainage in the area is generally poor, with permafrost and flat terrain hampering efforts to move water away from the road in the low section.



Photo 950 – Rutting in road surface



Photo 950 – Water being retained in ditch

RECON recommends that the existing 12” culvert be replaced with an 18” CMP culvert (CMP 7) and that the ditch lines on both sides of the road be improved to reduce ponding. In addition, RECON recommends that new geotextile fabric and a minimum of 18” rock fill be placed over a minimum length of 100 ft.

Spencer Creek

This section consists of 200 ft of the Standard Creek East Road directly following the Spencer Creek Bridge. The area consists of a fill section over saturated permafrost soils. Fill consists of local loess and is prone to saturation. One culvert was installed approximately 150 ft upstation of the bridge, but it appears to be slightly too high to provide fully effective cross-drain.

Date & Time: Wed Oct 22 11:54:01 AKST 2014

Position: +000 000000 ; +000 000000

Altitude: 0ft

Azimuth/Bearing: 004 N04E 0071mils (True)

Elevation Angle: -11.6

Horizon Angle: 00.8

Zoom: 1X



Photo 961 – Spencer Creek Fill. Culvert inlet under ice on right side of photo.

In addition RECON recommends that new geotextile fabric and a minimum of 18” rock fill be placed over a length of 200 ft starting at the Spencer Creek Bridge.



Standard Creek East Material Site

Due to the relatively low traffic nature of the Standard Creek Road, rock meeting conventional road surfacing specifications is not required. An existing material site located on the Standard Creek East Road was examined for suitability for fill rock on the Standard Creek Road. Current development of the material site consists of a 200-foot-long dozer cut into the side of a ridge where rock has been pushed down to a small stockpile area for small-scale road repairs.

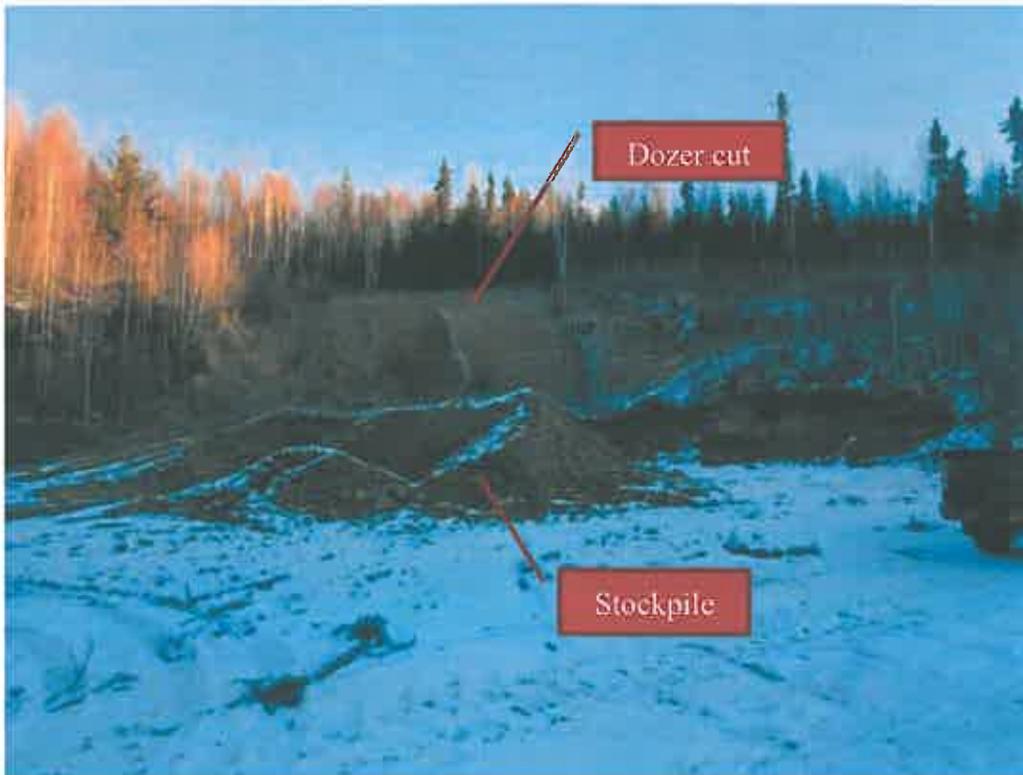


Photo 0256 – MP 2.2 Material Site, looking North from road

Bedrock exposed in the cut appears to consist of schist bedrock, typical of the upland hills in the area. The rock as currently extracted from the site consists primarily of weathered near-surface material, and due to the extraction methods, it contains a percentage of mixed in overburden fines. Rock appears to occur at an average depth of 3-4 ft under a native loess layer. Based on previous experience with schist quarries, RECON expects that more competent bedrock will likely be encountered at 6-10 ft in depth.



Photo 0254 – Typical rock from material site

At the time of this report, no delineation work has been completed on the site. However, based on the initial surface examination of the current development state, sufficient rock is likely available for completion of all current road repairs. Accessing the available rock will require further development of the site, including significant stripping and stockpiling of overburden. Drilling and blasting will likely be required to access more competent bedrock. RECON recommends that any drilling and blasting on site include sufficient production to allow for other future repairs on the Standard Creek road system.

Based on the initial assessment, RECON expects that the rock will produce an approximately 6" minus product with conventional blasting techniques. Rock produced will likely be useable for road repairs in pit-run form with minimal additional processing required.



Summary

RECON recommends that the problem areas on the Standard Creek Road located between MP 8.0 and MP 10.0 be repaired using the following methods:

1. Develop existing material site on Standard Creek East Rd.
2. Upgrade three existing culverts to 18" CMP
3. Install four additional 18" CMP culverts (30 ft TYP)
4. Install 3,440 lineal ft of new geotextile fabric
5. Import and place approximately 4,200 yds of suitable rock fill to create a new driving surface in areas of saturated soils.

The following table summarizes the sections recommended for additional fill. Fill rock should be engineer-approved and should contain minimal fines for best performance.

Fill Section	Milepost*	Lineal ft	Vol Fill (cyd)	Culverts	Typical Sec	Notes
1	7.1	200	260	0	1	Short low area that retains water
2	8.1	200	260	0	1	Short low area that retains water
3	8.8	520	680	2	2	Small swampy drainage crossing. Existing undersized culvert in place
4	9	1020	1300	1	2	Low permafrost area with poor cross drain
5	9.3	1200	1560	3	2	Low permafrost area with poor cross drain
6	9.6	100	140	1	2	Small swampy drainage crossing. Existing undersized culvert in place
7	2.2**	200	260	1	2	Fill section at Spencer Creek
Total		3440	4460	8		

* Mileposts are based on a GPS track of the Standard Crk Rd and are matched to the attached maps.

** Standard Creek East

A total of 220 lineal ft of 18" CMP culvert will be required for replacement of existing culvert and installation of new culverts.

RECON appreciates this opportunity to assist the Division of Forestry with ongoing maintenance of the Standard Creek Road. Please do not hesitate to contact Isaac Rowland, PE, at (907) 322-5545 or isaac@reconllc.net with any questions.

Sincerely,

Isaac Rowland, PE
RECON LLC
907.322.5545



10-29-2014

**APPENDIX F
FORTUNE CREEK EXISTING BRIDGE
PHOTOS**

The following photos are for reference only and represent the conditions encountered in June 2015. Bidders are encouraged to visit the site.



Photo 1: Looking north.



Photo 2: Deck looking north.



Photo 3: Deck looking south.



Photo 4: Looking north.



Photo 5: Near turnout looking south.



Photo 6: Looking south.



Photo 7: Side view.



Photo 8: Underside.



Photo 9: Side view.

