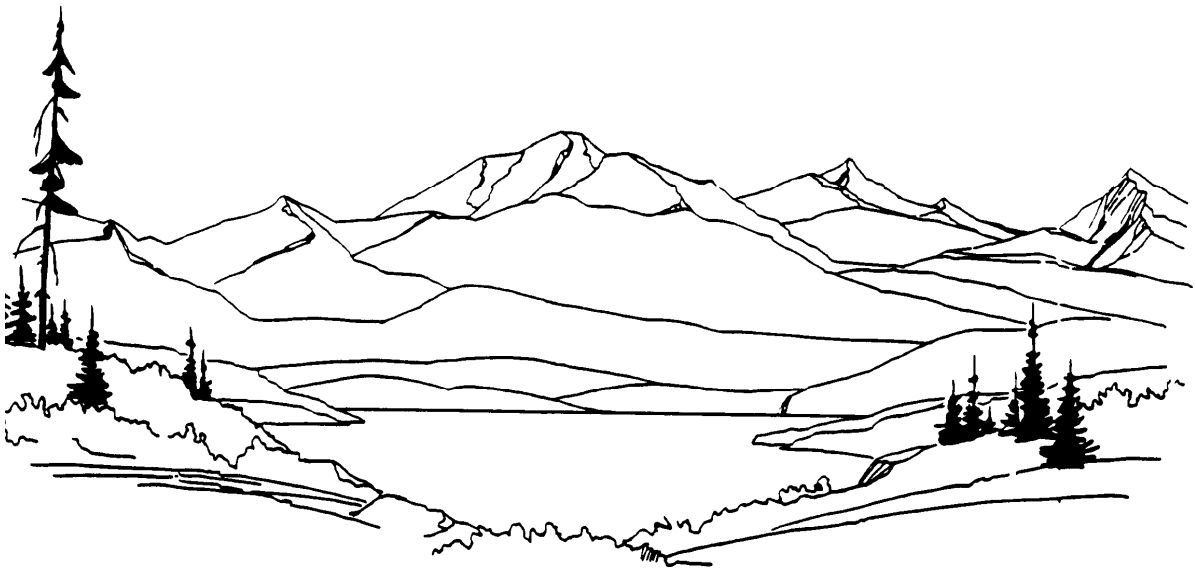
STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

DIVISION OF PARKS
AND
OUTDOOR RECREATION



PROPOSAL, CONTRACT, AND BOND
AND SPECIAL PROVISIONS

LOWER CHATANIKA RIVER SRA
FACILITY IMPROVEMENTS
PROJECT NO. 73035-3

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(Federal Aid)

STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

INVITATION FOR BIDS

for Construction Contract

Date **January 23, 2018**

LOWER CHATANIKA RIVER SRA FACILITY IMPROVEMENTS, PROJECT NO. 73035-3

Project Name and Number

Location of Project: MP 11 of Elliot Highway; Fairbanks, Alaska

Contracting Officer: Rys Miranda, P.E.; Chief, Design & Construction

Issuing Office: Design & Construction Section, Division of Parks and Outdoor Recreation

State Funded ☐ Federal Aid ☒

Description of Work:

Work under this Contract includes reconditioning, placement of RAM, and installation of new park amenities; such as fire rings, picnic tables, concrete parking bumpers, and barrier rocks at both Olnes Pond Campground and Whitefish Campground. Work at Olnes Pond Campground also includes installation of culverts, dredging, and topsoil and seeding. Work at Whitefish Campground also includes removal of existing toilet and installation of a new single vaulted concrete toilet and fee payment station.

The Engineer's Estimate is:

- ☐ Less than $100,000
- ☐ Between $100,000 and $250,000
- ☐ Between $250,000 and $500,000
- ☒ Between $500,000 and $1,000,000
- ☐ Between $1,000,000 and $2,500,000
- ☐ Between $2,500,000 and $5,000,000
- ☐ Greater than $5,000,000

All work shall be completed in **N/A** Calendar Days, or by **July 31, 2018**.
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 13th of February 2018.

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:

Bid for Project: **Lower Chatanika River SRA** **Facility Improvements** **Project No. 73035-3**	**ATTN:** **Design & Construction Section** **Division of Parks & Outdoor Recreation** **550 W. 7th Ave., Suite 1380** **Anchorage AK 99501**

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:

Tara Epperson
550 W. 7th Ave., Suite 1380
Anchorage AK 99501
Phone: (907) 269-8733

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:

Rys Miranda, P.E.
Chief, Design & Construction
Fax: (907) 269-8917 Phone: (907) 269-8736 Email: Rys.Miranda@alaska.gov

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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.

   a. Standard Specifications for Highway Construction, 2017 Edition. Available online at: http://www.dot.state.ak.us/stwddes/dcsspecs/assets/pdf/hwyspecs/sshc2017.pdf

   b. Alaska Test Methods Manual (Lab & Field), 2016 Edition. Available online at: http://www.dot.state.ak.us/stwddes/desmaterials/mat_waqtc/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 1380, Anchorage, AK:

   a. Estimate of Quantity Computations.

3. Materials Certification List (MCL). The MCL provides the Engineer with the appropriate approving authority. Contractor, submit certification for each material to the Engineer. The MCL is included in Appendix E.

4. 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.

5. 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://labor.alaska.gov/home.htm.

   Both Federal and State of Alaska wage rates apply to this contract. The minimum wage rate shall be whichever is higher of either the Federal or State age requirement.

6. Section 641. ESCP has been provided by the Department in the Appendix C.

STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

BID FORM

for

LOWER CHATANIKA RIVER SRA FACILITY IMPROVEMENTS, PROJECT NO. 73035-3

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 **February 13, 2018**, the Undersigned proposes to furnish and deliver all the materials and do all the work and labor required in the construction of the above-referenced Project, located at or near **Fairbanks**, Alaska, according to the plans and specifications and for the amount and prices named herein as indicated on the Bid Schedule consisting of **3** 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 **July 31, 2018**, unless extended in writing by the Contracting Officer.

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

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

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

NON-COLLUSION DECLARATION

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

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

Signature of Authorized Company Representative

Typed Name and Title

( ) **( )**

Phone Number **Fax Number**

Email Address

STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

REQUIRED DOCUMENTS

Federal-Aid 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-9)**
2. **Bid Schedule**
3. **Bid Security**
4. Any bid revisions must be submitted by the bidder prior to bid opening on the following form:

   Bid Modification (Form 25D-16)

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-5)**

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-10A)**
2. **Payment Bond (Form 25D-12)**
3. **Performance Bond (Form 25D-13)**
4. **Contractor's Questionnaire (25D-8)**
5. **Certificate of Insurance** (from carrier)
6. **EEO-1 Certification (Form 25A-304)**

BID SCHEDULE

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

Project Name: **LOWER CHATANIKA RIVER SRA FACILITY IMPROVEMENTS**

Project Number: **73035-3**

Before preparing this bid schedule, read carefully, Section 102 of the 2017 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.

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

Pay Item Number	Pay Item Description	Pay Unit	Quantity	Unit Bid Price	Amount Bid
******** BASIC BID ********					
201(3A)	Clearing & Grubbing	Acre	1.0	$	$
202(1)	Removal of Structures & Obstructions	L.S.	All Req'd	(LUMP SUM)	$
202(13)	Removal of Toilet	L.S.	All Req'd	(LUMP SUM)	$
203(3)	Unclassified Excavation	C.Y.	1,500	$	$
203(5A)	Borrow, Type A	C.Y.	1,200	$	$
301(5)	Recycled Asphalt Material	Ton	7,000	$	$
303(1)	Reconditioning	Station	101	$	$
603(1-24)	24 Inch CSP	L.F.	115	$	$
603(3-24)	End Section for 24 Inch CSP	Each	6	$	$

Name of Bidding Firm _____

Pay Item Number	Pay Item Description	Pay Unit	Quantity	Unit Bid Price	Amount Bid
******** CONTINUE BASIC BID ********					
615(1)	Standard Signs	S.F.	25	$	$
618(2)	Seeding	Pound	35	$	$
620(1)	Topsoil	S.Y.	3,800	$	$
640(1)	Mobilization & Demobilization	L.S.	All Req'd	(LUMP SUM)	$
641(1)	Erosion, Sediment, and Pollution Control Administration	L.S.	All Req'd	(LUMP SUM)	$
641(2)	Temporary Erosion, Sediment, and Pollution Control	C.S.	All Req'd	$10,000.00	$10,000.00
641(6)	Withholding	C.S.	All Req'd	$0.00	$0.00
642(1)	Construction Surveying	L.S.	All Req'd	(LUMP SUM)	$
642(3)	Three Person Survey Party	Hour	10	$	$
642(5)	Set Secondary Monument	Each	6	$	$
642(13)	As-Built Survey	L.S.	All Req'd	(LUMP SUM)	$
643(2)	Traffic Maintenance	L.S.	All Req'd	(LUMP SUM)	$
647(6)	Hydraulic Excavator, 1 C.Y., 100 HP Minimum	Hour	10	$	$
650(1)	Picnic Table	Each	2	$	$
650(1A)	Department Furnished Picnic Table	Each	19	$	$
650(4)	Round Firepit	Each	21	$	$
650(17)	Concrete Parking Bumper	Each	60	$	$
650(21)	Barrier Rock	Each	77	$	$
650(32)	Fee Payment Station	Each	1	$	$

Pay Item Number	Pay Item Description	Pay Unit	Quantity	Unit Bid Price	Amount Bid
******** CONTINUE BASIC BID ********					
650(42)	Campsite Marker	Each	20	$	$
654(1)	Single Concrete Vaulted Toilet	Each	1	$	$
				TOTAL BASIC BID (BB)	$

No:_____Expires_____
Alaska Business License

No:_____Expires_____
Alaska Contractor's License

STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

FEDERAL EEO BID CONDITIONS

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

1. Definitions. As used in these specifications:

   a. "**Covered area**" means the geographical area described in the solicitation from which this contract resulted;

   b. "**Director**" means Director, Office of Federal Contract Compliance Programs (OFCCP), United States Department of Labor (DOL), or any persons to whom the Director delegates authority;

   c. "**Employer**" identification number" means the Federal Social Security number used on the Employer's Quarterly Federal Tax Return, U.S. Treasury Department Form 941.

   d. "**Minority**" includes:

      (1) Black (all persons having origins in any of the Black African racial groups not of Hispanic origin);

      (2) Hispanic (all persons of Mexican, Puerto Rican, Cuban, Central or South American or other Spanish culture or origin, regardless of race);

      (3) Asian and Pacific Islander (all persons having origins in any of the original peoples of the Far East, Southeast Asia, the Indian Subcontinent, or the Pacific Islands); and

      (4) American Indian or Alaska Native (all persons having origins in any of the original peoples of North America and maintaining identifiable tribal affiliations through membership and participation or community identification).

2. Whenever the Contractor, or any subcontractor at any tier, subcontracts a portion of the work involving any construction trade, it shall physically include in each subcontract in excess of $10,000 the provisions of these specifications and the Notice which contains the applicable goals for minority and female participation and which is set forth in the solicitations from which this contract resulted.

3. If the Contractor is participating (pursuant to 41 CFR 60-4.5) in a Hometown Plan approved by the DOL in the covered area, either individually or through an association, its affirmative action obligations on all work in the Plan area (including goals and timetables) shall be in accordance with that Plan for those trades that have unions participating in the Plan. Contractors must be able to demonstrate their participation in and compliance with the provisions of any such Hometown Plan. Each Contractor or subcontractor participating in an approved Plan is individually required to comply with its obligations under the EEO clause, and to make good faith effort to achieve each goal under the Plan in each trade in which it has employees. The overall good faith performance by other Contractors or subcontractors toward a goal in an approved Plan does not excuse any covered Contractor's or subcontractor's failure to make good faith efforts to achieve the Plan goals and timetables.

4. The Contractor shall implement the specific affirmative action standards provided in paragraphs 7(a) through 7(p) of these specifications. The goals set forth in the solicitation from which this contract resulted are expressed as percentages of the total hours of employment and training of minority and female utilization the Contractor should reasonably be able to achieve in each construction trade in which it has employees in the covered area. The Contractor is expected to make substantially uniform progress toward its goals in each craft during the period specified.

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

5. Neither the provisions of any collective bargaining agreement, nor the failure by a union with whom the Contractor has a collective bargaining agreement, to refer either minorities or women shall excuse the Contractor's obligations under these specifications, Executive Order 11246, or the regulations promulgated pursuant thereto.

6. In order for the non-working training hours of apprentices and trainees to be counted in meeting the goals, such apprentices and trainees must be employed by the Contractor during the training period of an approved training program and the Contractor must have made a commitment to employ the apprentices and trainees at the completion of their training, subject to the availability of employment opportunities.

7. The Contractor shall take specific affirmative actions to ensure equal employment opportunity. The evaluation of the Contractor's compliance with these specifications shall be based upon its effort to achieve maximum results from its actions. The Contractor shall document these efforts fully, and shall implement affirmative action steps at least as extensive as the following:

   a. Ensure and maintain a working environment free of harassment, intimidation, and coercion at all sites, and in all facilities at which the Contractor's employees are assigned to work. The Contractor, where possible, will assign two or more women to each construction project. The Contractor shall specifically ensure that all foremen, superintendents, and other on-site supervisory personnel are aware of and carry out the Contractor's obligations to maintain such a working environment, with specific attention to minority or female individuals working at such sites or in such facilities.

   b. Establish and maintain a current list of minority and female recruitment sources, provide written notification to minority and female recruitment sources and to community organizations when the Contractor or its unions have employment opportunities available, and maintain a record of the organizations' responses.

   c. Maintain a current file of the names, addresses and telephone numbers of each minority and female off-the-street applicant and minority or female referral from a union, a recruitment source or community organization and of what action was taken with respect to each such individual. If such individual was sent to the union hiring hall for referral and was not referred back to the Contractor by the union or, if referred, not employed by the Contractor, this shall be documented in the file with the reason therefor, along with whatever additional actions the Contractor may have taken.

   d. Provide immediate written notification to the Director when the union or unions with which the Contractor has a collective bargaining agreement has not referred to the Contractor a minority person or woman sent by the Contractor, or when the Contractor has other information that the union referral process has impeded the Contractor's efforts to meet its obligations.

   e. Develop on-the-job training opportunities and/or participate in training programs for the area which expressly include minorities and women, including upgrading programs and apprenticeship and trainee programs relevant to the Contractor's employment needs, especially those programs funded or approved by the DOL. The Contractor shall provide notice of these programs to the sources compiled under 7(b) above.

   f. Disseminate the Contractor's EEO policy by providing notice of the policy to unions and training programs and requesting their cooperation in assisting the Contractor in meeting its EEO obligations; by including it in any policy manual and collective bargaining agreement; by publicizing it in the company newspaper, annual report, etc.; by specific review of the policy with all management personnel and with all minority and female employees at least once a year; and by posting the company EEO policy on bulletin boards accessible to all employees at each location where construction work is performed.

g. Review, at least annually, the company's EEO policy and affirmative action obligations under these specifications with all employees having any responsibility for hiring, assignment, layoff, termination or other employment decisions including specific review of these items with on-site supervisory personnel such as Superintendent, general foreman, etc., prior to the initiation of construction work at any job site. A written record shall be made and maintained identifying the time and place of these meetings, persons attending, subject matter discussed, and dispositions of the subject matter.

h. Disseminate the Contractor's EEO policy externally by including it in any advertising in the news media, specifically including minority and female news media, and providing written notification to and discussing the Contractor's EEO policy with other Contractors and Subcontractors with whom the Contractor does or anticipates doing business.

i. Direct its recruitment efforts, both oral and written, to minority, female and community organizations, to schools with minority and female students and to minority and female recruitment and training organizations serving the Contractor's recruitment area and employment needs. Not later than one month prior to the date for the acceptance of applications for apprenticeship or other training by any recruitment source, the Contractor shall send written notification to organizations such as the above, describing the openings, screening procedures, and tests to be used in the selection process.

j. Encourage present minority and female employees to recruit other minority persons and women and, where reasonable, provide after school, summer and vacation employment to minority and female youth both on the site and in other areas of a Contractor's workforce.

k. Validate all tests and other selection requirements where there is an obligation to do so under 41 CFR Part 60-3.

l. Conduct, at least annually, an inventory and evaluation at least of all minority and female personnel for promotional opportunities and encourage these employees to seek or to prepare for, through appropriate training, etc., such opportunities.

m. Ensure that seniority practices, job classifications, work assignments and other personnel practices do not have a discriminatory effect by continually monitoring all personnel and employment related activities to ensure that the EEO policy and the Contractor's obligations under these specifications are being carried out.

n. Ensure that all facilities and company activities are nonsegregated except that separate or single-used toilet, necessary changing facilities and necessary sleeping facilities shall be provided to assure privacy between the sexes.

o. Document and maintain a record of all solicitations of offers for subcontractors from minority and female construction contractors and suppliers, including circulations of solicitations to minority and female contractor associations and other business associations.

p. Conduct a review, at least annually, of all supervisors' adherence to and performance under the Contractor's EEO policies and affirmative action obligations.

8. Contractors are encouraged to participate in voluntary associations which assist in fulfilling one or more of their affirmative action obligations 7(a) through 7(p). The efforts of a contractor association, joint contractor-union, contractor-community, or other similar group of which the Contractor is a member and participant, may be asserted as fulfilling any or more of its obligations under 7(a) through 7(p) of these specifications provided that the Contractor actively participates in the group, makes every effort to assure that the group has a positive impact on the employment of minorities and women in the industry, ensures that the concrete benefits of the program are reflected in the Contractor's minority and female work force participation, makes a good faith effort to meet its individual goals and timetables, and can provide access to documentation which demonstrates the effectiveness of actions taken on behalf of the Contractor. The obligation to comply, however, is the Contractor's and failure of such a group to fulfill an obligation shall not be a defense for the Contractor's noncompliance.

9. A single goal for minorities and a separate goal for women have been established. The Contractor, however, is required to provide equal employment opportunity and to take affirmative action for all minority groups, both male and female, and all women, both minority and non-minority. Consequently, the Contractor may be in violation of the Executive Order if a particular group is employed in a substantially disparate manner (for example, even though the Contractor has achieved its goals for women generally, the Contractor may be in violation of the Executive Order if a specific minority group of women is underutilized.)

10. The Contractor shall not use the goals and timetables or affirmative action standards to discriminate against any person because of race, color, religion, sex, or national origin.

11. The Contractor shall not enter into any subcontract with any person or firm debarred from government contracts pursuant to Executive Order 11246.

12. The Contractor shall carry out such sanctions and penalties for violation of these specifications and of the Equal Opportunity Clause, including suspension, termination and cancellation of existing subcontracts as may be imposed or ordered pursuant to Executive Order 11246, as amended, and its implementing regulations, by the OFCCP. Any Contractor who fails to carry out such sanctions and penalties shall be in violation of these specifications and Executive Order 11246, as amended.

13. The Contractor, in fulfilling its obligations under these specifications, shall implement specific affirmative action steps, at least as extensive as those standards prescribed in paragraph 7 of these specifications, so as to achieve maximum results from its efforts to ensure equal employment opportunities. If the Contractor fails to comply with the requirements of the Executive Order, the implementing regulations or these specifications, the Director shall proceed in accordance with 41 CFR 60-4.8.

14. The Contractor shall designate a responsible official to monitor all employment related activity to ensure that the company EEO policy is being carried out, to submit reports relating to the provisions hereof as may be required by the Government and to keep records. Records shall at least include for each employee the name, address, telephone numbers, construction trade, union affiliation if any, employee identification number when assigned, social security number, race, sex, status (e.g., mechanic apprentice, trainees, helper, or laborer), dates of changes in status, hours worked per week in the indicated trade, rate of pay, and locations at which the work was performed. Records shall be maintained in an easily understandable and retrievable form; however, to the degree that the existing records satisfy this requirement, Contractors shall not be required to maintain separate records.

15. Nothing herein provided shall be construed as a limitation upon the application of other laws that establish different standards of compliance or upon the application of requirements for the hiring of local or other area residents (e.g., those under the Public Works Employment Act of 1977 and the Community Development Block Grant Programs).

16. The Bidder's attention is called to the "Equal Opportunity Clause" and the "Standard Federal Equal Employment Opportunity Construction Contract Specifications" set forth herein.

17. The goals and timetables for minority and female participation, expressed in percentage terms for the Contractor's aggregate work force in each trade on all construction work in the covered area, are as set forth in item 20.

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

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

The hours on minority and female employment and training must be substantially uniform throughout the length of the contract, and in each trade, and the Contractor shall make a good faith effort to employ minorities and women evenly on each of its projects. The transfer of minority or female employees or trainees from Contractor to Contractor or from project to project for the sole purpose of meeting the Contractor's goals shall be a violation of the contract, the Executive Order and the regulations in 41 CFR Part 60-4. Compliance with the goals will be measured against the total work hours performed.

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

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

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

20. Goal and Timetable

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

ALASKA GOAL AND TIMETABLE FOR **WOMEN***

Timetable	Goal **
Until Further Notice	6.9%

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

ALASKA GOALS AND TIMETABLE FOR **MINORITY UTILIZATION**

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

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

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

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

STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

SUBCONTRACTOR LIST

LOWER CHATANIKA RIVER SRA FACILITY IMPROVEMENTS, PROJECT NO. 73035-3

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 day on the fifth working day after receipt of written or verbal 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 by accomplished without subcontracts greater than ½ of 1% of the contract amount.

OR

☐ Subcontractor List is as follows:

LIST FIRST TIER SUBCONTRACTORS ONLY

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

CONTINUE SUBCONTRACTOR INFORMATION ON REVERSE SIDE

I hereby certify that the listed licenses and registrations were valid at the time bids were received for this project. For contracts involving Federal-aid funding, Alaska Business License and Contractor Registration will be required prior to award of subcontract.

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

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

STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

CONTRACTOR'S QUESTIONNAIRE

LOWER CHATANIKA RIVER SRA FACILITY IMPROVEMENTS, PROJECT NO. 73035-3

Project Name and Number

A. FINANCIAL

1. Have you ever failed to complete a contract due to insufficient resources?

   ☐ NO ☐ YES If YES, explain:

   _____
   _____
   _____
   _____
   _____

2. Describe any arrangements you have made to finance this work:_____
   _____
   _____

B. EQUIPMENT

1. Describe below the equipment you have available and intend to use for this project:

ITEM	QUAN.	MAKE	MODEL	SIZE / CAPACITY	PRESENT MARKET VALUE

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

CONSTRUCTION CONTRACT

LOWER CHATANIKA RIVER SRA FACILITY IMPROVEMENTS, PROJECT NO. 73035-3

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: **July 31, 2018** 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

Email Address

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

LOWER CHATANIKA RIVER SRA FACILITY IMPROVEMENTS, PROJECT NO. 73035-3
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

LOWER CHATANIKA RIVER SRA FACILITY IMPROVEMENTS, PROJECT NO. 73035-3
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

LOWER CHATANIKA RIVER SRA FACILITY IMPROVEMENTS, PROJECT NO. 73035-3

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.

STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

BID MODIFICATION

LOWER CHATANIKA RIVER SRA FACILITY IMPROVEMENTS, PROJECT NO. 73035-3

Project Name and Number

Modification Number: _____

Note: All revisions shall be made to the unadjusted bid amount(s).
Changes to the adjusted bid amounts will be computed by the Department.

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

TOTAL REVISION: $_____

_____
Name of Bidding Firm

_____
Responsible Party Signature **Date**

This form may be duplicated if additional pages are needed.

STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

EEO-1 CERTIFICATION

Federal-Aid Contracts

LOWER CHATANIKA RIVER SRA FACILITY IMPROVEMENTS, PROJECT NO. 73035-3

Project Name and Number

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

PLEASE CHECK APPROPRIATE BOXES

The [ ] Bidder [ ] Proposed Subcontractor hereby CERTIFIES:

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

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

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

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

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

Telephone number: (757) 461-1213

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

[ ] NO [ ] YES

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

PART C

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

SPECIAL PROVISIONS

to the

STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

2017 STANDARD SPECIFICATIONS for HIGHWAY CONSTRUCTION

LOWER CHATANIKA RIVER SRA

FACILITY IMPROVEMENTS

PROJECT NUMBER 73035-3

SECTION 101

DEFINITIONS AND TERMS

101-1.03 DEFINITIONS.

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

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

SECTION 102

BIDDING REQUIREMENTS AND CONDITIONS

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

SECTION 105

CONTROL OF WORK

105-1.02 PLANS AND WORKING DRAWINGS. Add the following to the first paragraph: Full size plan sheets are 11" by 17". Plans are not available in CAD digital format. (01/27/07) E33-Standard Modification

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.

ALASKA DIGLINE, INC.	
Locate Call Centers:	
Statewide	(800) 478-3121

105-1.13 MAINTENANCE DURING CONSTRUCTION.

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

105-1.15 PROJECT COMPLETION. In the third paragraph, first sentence, replace: "Subsection 621-3.04" with "Subsection 618-3.06 and 621-3.04."

(02/02/15) PARKS-Special Provision

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

SECTION 106

CONTROL OF MATERIAL

106-1.01 SOURCE OF SUPPLY AND QUALITY REQUIREMENTS. Add the following:

Buy American Act. Comply with the requirements of 41 USC 10. The Contractor agrees that only domestic construction material will be used by the contractor, subcontractors, materialmen, and suppliers in the performance of this contract, except for foreign construction materials, if any listed in this contract.

The following terms apply to this clause:

1. **Components.** As used in this clause, means those articles, materials, and supplies incorporated directly into construction materials.

2. **Construction Material.** As used in this clause, means an article, material, or supply brought to the construction site for incorporation into the building or work. Construction material also includes an item brought to the site pre-assembled from articles, materials or supplies. However, emergency life systems, such as emergency lighting, fire alarm, and audio evacuation system, which are discrete systems incorporated into a public building or work and which are produced as a complete system, shall be evaluated as a single and distinct construction material regardless of when or how the individual parts or components of such systems are delivered to the construction site.

3. **Domestic Construction Material.** As used in this clause, means (a) an unmanufactured construction material mined or produced in the United States, or (b) a construction material manufactured in the United States, if the cost of its components mined, produced, or manufactured in the United States exceeds 50 percent of the cost of all its components. Components of foreign origin of the same class or kind as the construction materials determined to be unavailable pursuant to 48 CFR 25.108 shall be treated as domestic.

(03/09/17)PARKS-Special Provision

SECTION 107

LEGAL RELATIONS AND RESPONSIBILITY TO PUBLIC

107-1.02 PERMITS, LICENSES, AND TAXES.

Add the following to the second paragraph:

3. The Department has received the following permits on the Contractor's behalf:

   See Appendix A

(10/03/17)PARKS-Special Provision

Add the following to the fourth paragraph:

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

(03/21/11)PARKS-Special Provision

107-1.11 PROTECTION AND RESTORATION OF PROPERTY AND LANDSCAPE.

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

(02/08/10)CR7-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

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

Add the following Subsection:

107-1.21 FEDERAL AFFIRMATIVE ACTION. Affirmative steps must be taken to comply with Federal Equal Employment Opportunity (EEO) and Disadvantaged Business Enterprise (DBE) requirements as applicable to this Contract. The Alaska Department of Transportation and Public Facilities maintains a list of registered DBEs and may be contacted at (907) 269-0851 to obtain a copy of that list. Exercise good faith effort to comply with affirmative action requirements and make all documentation available to the Engineer upon request.

(03/09/17)PARKS-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 **April 1, 2018.**

(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:

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

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 Engineer. The measurement shall start when the required equipment & operator, surveyor, or survey party begins work at the specified location as directed by the Engineer. The measurement will stop when the required work is accomplished, when the equipment fails, when directed to stop work by the Engineer, or when the operator stops work. Times will be reconciled with the Contractor on a daily basis.

(02/23/15)PARKS-Special Provision

109-1.05 COMPENSATION FOR EXTRA WORK ON TIME AND MATERIALS BASIS. Under item 3. Equipment, 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 the Alaska – **CENTRAL** (04/31/05)R14-Special Provision

SECTION 201

CLEARING AND GRUBBING

201-3.01 GENERAL. Add the following: All clearing and/or grubbing activities shall abide by the Migratory Bird Treaty Act (MBTA). (09/15/08)PARKS-Special Provision

Add the following: The Contractor shall perform the work necessary to preserve and/or restore land monuments and property corners from damage. A land monument or property corner that is disturbed shall be restored according to Section 642 at the Contractor's expense. An undisturbed area 5 foot in diameter may be left around existing monuments and property corners. A list of land monuments and property corners is shown on the Right of Way maps.

(06/10/04)R107-Special Provision

201-3.02 CLEARING. Add the following: Remove branches to provide 12 feet vertical clearance above road surface, shoulder to shoulder. Remove branches to provide 10 feet vertical clearance above sidewalk, deck, trail and pathway surfaces. (01/01/01)PARKS-Special Provision

201-3.03 GRUBBING. Add the following: The Contractor has the option to screen organic soil obtained from grubbing to meet the gradation for topsoil as specified under Section 726, or as approved by the Engineer. The screened material may be used for topsoil onsite. (05/02/11)PARKS-Special Provision

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

Add the following: Removal of branches for vertical clearance in accordance with Subsection 201-3.02 will not be measured directly for payment but will be considered subsidiary to work in this Section. (01/01/01)PARKS-Special Provision

SECTION 202

REMOVAL OF STRUCTURES AND OBSTRUCTIONS

202-1.01 DESCRIPTION. Replace the first sentence with the following: This work shall consist of, but not be limited to, the removal of wooden bumpers, picnic tables, fire rings, and a single vaulted toilet structure and any other obstructions which are not designated or permitted to remain, except for the obstructions to be removed and disposed of under other items in the contract. Also included will be the relocation of existing barrier rocks. (10/02/17)PARKS-Special Provision

Add the following:

Materials which are designated to be salvaged and remain the property of the Division of Parks and Outdoor Recreation are the picnic tables and fire rings. By arrangement with the Engineer, deliver salvaged materials to Northern Area State Parks Office, 3700 Airport Way, Fairbanks, AK 99709. (10/03/17)PARKS-Special Provision

202-3.01 GENERAL. Replace paragraphs three, four, and five with the following: Remove and satisfactorily dispose of materials not designated to be salvaged and materials determined by the Engineer to be unusable to the Department. (01/01/01)PARKS-Special Provision

Add the following Subsection:

202-3.07 REMOVAL OF TOILET. Work shall consist of pumping out toilet vault or pit and removing the building structure, toilet vault, concrete pad, and all debris associated with the toilet. The hole vacated by the vault or pit shall be treated with 100 pounds of lime and backfilled with compacted clean gravel. The top 6 inches of backfill shall be similar to surrounding materials.

202-4.01 METHOD OF MEASUREMENT. Add the following: Backfill and lime for removal of toilet will be considered subsidiary to the toilet removal. (08/30/94)PARKS-Special Provision

202-5.01 BASIS OF PAYMENT. Add the following:

Payment will be made under:

Pay Item	Pay Unit
202(1) Removal of Structures and Obstructions	Lump Sum
202(13) Removal of Toilet	Lump Sum

(01/01/05)PARKS-Special Provision

SECTION 203

EXCAVATION AND EMBANKMENT

203-3.03 EMBANKMENT CONSTRUCTION. Add the following:

Cut and fill slopes shall be constructed to template. At the direction of the Engineer, the Contractor may be required to finish all slopes by a method of hand raking. This work shall be at no additional cost to the State. The finished slope surface parallel to the shoulder line shall not vary more than 0.10 foot when tested using a 10-foot straightedge. The finished slope surface perpendicular to the shoulder line shall not vary more than 0.10 foot for the following slope ratios and corresponding straightedge lengths: 2:1 slope and two-foot length; 3:1 slope and three-foot length; 4:1 slope and four-foot length; 5:1 slope and five-foot length; and 6:1 slope and six-foot length. (01/01/01)PARKS-Special Provision

Add the following Subsections:

203-3.06 MOUND CONSTRUCTION. Mound size and shape will be field located by Engineer. Mound slopes shall be smooth and shapes irregular, with no slopes steeper than 3:1. (01/10/97)PARKS-Special Provision

203-3.07 CAMPSITE PAD. Hand work will be required after the clearing and grubbing to dress up the material in the site, hand raking material smooth and feathering it into the adjoining vegetation so a well-groomed site is obtained. (09/07/94)PARKS-Special Provision

203-3.08 DREDGING. Dredging shall be completed to the elevations and areas as shown on the plans. Dredged material shall remain and be used on site as directed by the Engineer. If unusable material deemed by the Engineer is encountered, the Contractor shall haul the material off site. Usable dredged material shall be salvaged and used as fill in areas along the bank of the pond as directed on the plans or used as material to construct mounds. Fill material shall be graded and compacted to the elevations on the plans. The original ground shall be cut to match the top of the finish grade. (01/02/18)PARKS-Special Provision

203-4.01 METHOD OF MEASUREMENT.

Add the following: Mound construction will not be measured directly for payment but will be considered subsidiary to other Section 203 items.

Placement, hauling, grading and compaction of dredged material shall be considered subsidiary to Item 203(3) Unclassified Excavation.

(01/31/94)PARKS-Special Provision

203-5.01 BASIS OF PAYMENT. Add the following: The contract unit price for borrow is for furnishing the material if suitable selected material is not available in the unclassified excavation. The cost for placing and compacting the imported material is included in the contract unit price. The cost for placing and compacting selected material acquired from unclassified excavation shall be included in the contract unit price for the excavation items. Material paid for as excavation will not be paid for again as selected material. The costs for installation of geotextile, separation at the roadway widening will be considered subsidiary to Item 203(5A) Borrow.

All work required to complete dredging will be paid under Item 203(3) Unclassified Excavation.

(01/02/18)PARKS-Special Provision

SECTION 204

STRUCTURE EXCAVATION FOR CONDUITS AND MINOR STRUCTURES

204-3.01 CONSTRUCTION REQUIREMENTS. In the first sentence of paragraph four, delete: “bedding and” (01/27/07)E37-Standard Modification

Add the following after the third paragraph: Excavation, bedding, backfill, and compaction for culverts outside the roadbed may be visually inspected and approved by the Engineer. (02/06/08)R204-Special Provision

204-5.01 BASIS OF PAYMENT. Replace the third and fourth 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. Excavation of unsuitable material for culverts and pipe required from below a plane 12 inches below the invert elevation of conduits, or from beyond the excavations limits shown on the plans and standard drawings for structures will be considered extra work.

Any backfill material or bedding material required for conduits whose source is other than excavation will be paid for at the contract unit price for the material being used, or as extra work if no unit price has been established. Any backfill material or bedding material required for structures other than conduits will be considered as subsidiary to those items.

(11/21/08)PARKS-Special Provision

SECTION 301

AGGREGATE BASE COURSE

301-2.01 MATERIALS. Add the following:
Recycled asphalt material (RAM)

1. RAM shall be crushed or processed to 100 percent by weight passing the 1.5 inch sieve and 95-100 percent by weight passing the 1 inch sieve.

2. The gradation of the extracted aggregate shall meet the following:

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

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

(01/24/07)R176-Special Provision

301-3.03 SHAPING AND COMPACTION. Add the following: Recycled asphalt material will meet the following conditions:

1. Density acceptance will be based determined by control strip method ATM 412. Use a test strip with a vibratory compactor with a minimum dynamic force of 40,000 pounds. The optimum density will be determined by the Engineer using a nuclear densometer gauge to monitor the test strip. Adequate water shall be added to aid compaction.

2. After the appropriate coverage with the vibratory compactor, a minimum of 6 passes with a pneumatic tire roller shall be completed. Tires shall be inflated to 80 psi (± 5 psi), and the roller shall have a minimum operating weight per tire of 3,000 pounds.

(01/24/07)R176-Special Provision

301-5.01 BASIS OF PAYMENT. Add the following:

Payment will be under:

Pay Item	Pay Unit
301(5) Recycled Asphalt Material	Ton

SECTION 603

CULVERTS AND STORMDRAINS

603-1.01 DESCRIPTION. Add the following: This work shall also consist of installing culvert marker posts.

603-2.01 MATERIALS. Add the following:

Culvert marker posts shall meet the requirements of subsection 730-2.05, Flexible Delineator Posts. The color shall be blue with no other markings. The 2.5 inch by 6 foot post shall be rectangular in cross section with reinforcing ribs capable of a minimum bending radius of 9 inches.

(08/27/03)CR42-Special Provision

603-3.03 JOINING PIPE.

2. Metal Pipe. Add the following after the 2nd sentence:

Install a gasket in all pipe joints; joints between new sections of pipe and joints between new and existing sections of pipe of similar or dissimilar materials, regardless of the type of coupling band. Except, the end section joint does not require a gasket. Use flexible watertight gaskets (ASTM D 1056 2B3) as specified in Subsection 705-2.05.
(03/24/11)CR6031-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 inches of post shall remain above the ground after driving.

603-4.01 METHOD OF MEASUREMENT. Add the following: Culvert marker posts will not be measured for payment.

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)CR42-Special Provision

Add the following:

Payment will be under:

Pay Item	Pay Unit
603(1-24) 24 Inch CSP	Linear Foot
603(3-24) End Section for 24 Inch CSP	Each

(01/01/01) PARKS-Special Provision

Replace this entire Section with the following:

SECTION 618

SEEDING

618-1.01 DESCRIPTION. This work consists of establishing a perennial stand of grass or other specified living vegetative cover in the areas indicated on the Plans and to acceptably maintain the cover for the term of the Contract.

Topsoil and seed all new or disturbed slopes and any other areas directed by the Engineer. Track soil and apply seed, mulch, fertilizer and water. Provide a living ground cover on all slopes as soon as possible.

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

Seed	Section 724
Fertilizer	Section 725
Mulch	Subsection 727-2.01
Water	Subsection 712-2.01

CONSTRUCTION REQUIREMENTS

618-3.01 SOIL PREPARATION. Clear all areas to be seeded of stones 4 inches in diameter and larger and of all weeds, plant growth, sticks, stumps, and other debris or irregularities that might interfere with the seeding operation, growth of grass, or subsequent maintenance of the grass-covered areas.

Make areas to be seeded reasonably free of ruts, holes, and humps.

Apply seed as detailed in Subsection 618-3.03 immediately after the shaping of the slopes. Cover all slopes to be seeded with topsoil in accordance with Section 620. Complete slope preparation as soon as topsoil is placed on the slopes.

(01/01/01)PARKS-Special Provision

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

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

Rounding the top and bottom of slopes to facilitate tracking or raking and to create a pleasant appearance is acceptable, but disrupting drainage flow lines is not.

(01/27/07)E42-Standard Modification

Flat surfaces shall also be topsoiled and roughened by using one of the methods described above.

(01/01/01)PARKS-Special Provision

618-3.02 SEEDING SEASONS. Seed disturbed areas that require seeding within 14 days of the permanent cessation of ground disturbing activities in that area.

(01/27/07)E42-Standard Modification

Seed and fertilize during the local growing season. Do not seed during windy conditions or when climatic conditions or ground conditions would hinder placement or proper growth. The seeding season is from May 15 and August 1.

Written approval from the Engineer is required to seed at a different date.

618-3.03 APPLICATION. Apply seed, mulch and fertilizer as follows per 1000 ft^2. Apply seed and mulch in one application using the hydraulic method. Apply all fertilizer with the hydraulic method.

Item	Ingredients	Application Rate (per 1000 S.F.)
Seed Mix	Bering Hairgrass (Norcoast) Red Fescue (Arctared)	0.60 lbs 0.40 lbs Total = 1.00 lbs
Mulch		35.0 lbs
Fertilizer	20-20-10	12.0 lbs

Do not remove the required tags from the seed bags.

Use the following method unless otherwise specified:

Hydraulic Method.

a. Furnish and place a slurry made of seed, fertilizer, water, and other components as required by the Special Provisions.

b. Use hydraulic seeding equipment that will maintain a continuous agitation and apply a homogeneous mixture through a spray nozzle. The pump must produce enough pressure to maintain a continuous, non-fluctuating spray that will reach the extremities of the seeding area with the pump unit located on the roadbed. Provide enough hose to reach areas not practical to seed from the nozzle unit situated on the roadbed.

c. If mulch material is required, it may be added to the water slurry in the hydraulic seeder after adding the proportionate amounts of seed and fertilizer. Add seed to the slurry mixture no more than 30 minutes before application.

d. Mix the slurry and apply it evenly.

618-3.04 PLANT ESTABLISHMENT AND MAINTENANCE. Protect seed areas against traffic and erosion. Promptly repair surfaces that are gullied or otherwise damaged following seeding by re-grading, reseeding, and re-mulching as needed.

Water and maintain seeded areas until acceptance of the work. Use equipment that can water all seeded areas without damaging the seed bed.

Reseed any areas not showing evidence of satisfactory growth within 3 weeks of seeding. Erosion gullies over 4 inches deep must be filled and reseeded. Fill the entire erosion gully to surrounding grade, including the portions less than 4 inches deep.

A reapplication of fertilizer shall be applied with water between May 1 and June 30 of the year following seeding. Re-fertilization shall be applied at a rate of one-half the initial application.

(01/01/01)PARKS-Special Provision

618-3.05 ACCEPTANCE. During final inspection the Engineer will perform a visual inspection of seeding to determine final stabilization. During the visual inspection each station and each side of the road will be considered a separate area. The Engineer will accept seeding that has become a vegetative matt with 70% cover density in the inspection area.

Reseed areas that are not acceptable to the Engineer.

618-3.06 PERIOD OF ESTABLISHMENT. Establishment periods extend for one complete growing season following acceptable seeding. Employ possible means to preserve the new vegetative matt in a healthy and vigorous condition to ensure successful establishment. Reseed areas that do not meet the specifications. Watering and reseeding after the final inspection are subsidiary.

The Engineer may, but is not required to, determine the Project is complete except for the period of establishment, and issue a letter of final acceptance. After final acceptance, work or materials due under this subsection during any remaining period of establishment are considered warranty obligations that continue to be due following final acceptance in accordance with subsection 105-1.16.

(01/27/07)E42-Standard Modification

618-4.01 METHOD OF MEASUREMENT.

Seeding by the pound. Weight of seed acceptably placed and maintained. Water, mulch, and fertilizer are subsidiary.

The amounts of fertilizer, seed, mulch and water for application used in this work, including any required reseeding and re-fertilization are subsidiary to other 618 items. The work described under subsection 618-3.01 Soil Preparation is subsidiary to seeding.

Water used in maintenance of seeded areas will not be measured directly for payment but will be considered subsidiary to the seeding item.

618-5.01 BASIS OF PAYMENT. At the contract unit price per unit of measurement for the pay items listed below that appear on the bid schedule.

Payment will be made under:

Pay Item	Pay Unit
618(2) Seeding	Pound

SECTION 620

TOPSOIL

620-2.01 MATERIALS. Replace this Subsection with the following:

Provide topsoil of the class specified on the Plans. Use material that conform to the following:

Topsoil	Section 726 or as approved by the Engineer

Topsoil shall be free of invasive material.

(03/09/17)PARKS-Special Provision

Replace Section 641 with the following:

SECTION 641

EROSION, SEDIMENT, AND POLLUTION CONTROL

641-1.01 DESCRIPTION. Provide project administration and Work relating to control of erosion, sedimentation, and discharge of pollutants, according to this section and applicable local, state, and federal requirements, including the Construction General Permit.

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" required by the CGP. 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, 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). The permit authorizing storm water discharges from Construction Activities, issued and enforced by ADEC. It authorizes stormwater discharges provided permit conditions and water quality standards are met.

Electronic Notice of Intent (eNOI). The electronic Notice of Intent submitted to ADEC, to obtain coverage under the CGP.

Electronic Notice of Termination (eNOT). The electronic Notice of Termination submitted to ADEC, to end coverage under the CGP.

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 an acceptable Storm Water Pollutant Prevention Plan (SWPPP).

Final Stabilization. Is defined in this section as it is defined in the CGP.

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

Inspection. An inspection required by the CGP or the SWPPP, usually performed together by the Contractor's Storm Water Lead and Department's Project Engineer.

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

Operator(s). The party or co-parties associated with a regulated activity that has responsibility to obtain permit coverage under the CGP. "Operator" for the purpose of the CGP and in the context of stormwater associated with construction activity, means any party associated with a construction project that meets either of the following two criteria:

1. The party has operational control over construction plans and specifications, including the ability to make modifications to those plans and specifications; or

2. The party has day to day operational control of those activities at a project which are necessary to ensure compliance with a SWPPP for the site or other permit conditions (e.g. they are authorized to direct workers at a site to carry out activities required by the SWPPP or comply with other permit conditions).

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

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

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

Records. Any record, report, information, document, or photograph required to be created or maintained pursuant to the requirements of the CGP storm water requirements of the Clean Water Act; and applicable local, state, and federal laws and regulations regarding document preservation.

Storm Water Discharges From Municipal Separate Storm Sewer Systems (MS4s). A conveyance or system of conveyances including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains that discharges into waters of the United States and is owned or operated by a public agency.

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

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

Storm Water Pollution Prevention Plan (SWPPP). 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 SWPPP 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 CGP and this specification, and other applicable local, state, and federal laws and regulations.

Storm Water Lead. The Contractor's qualified representative who conducts Inspections and has authority to suspend work and to implement corrective actions required for CGP compliance.

Storm Water Pollution Prevention Plan Two (SWPPP2). The Contractor's detailed project specific plan to comply with CGP or MSGP requirements, for Contractor construction-related Support Activities outside the Project Area.

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.

Subcontractor SWPPP Coordinator. The subcontractor's representative with authority to direct the subcontractor's work, and who is responsible for coordination with the Superintendent and Storm water lead, and for the subcontractor's compliance with the SWPPP.

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. See ADEC CGP definition. Further defined as construction activities in which the Department is not an operator and the activity is outside the Project Area.

SWPPP Amendment. A revision or document that adds to, deletes from, or modifies the SWPPP.

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

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

Utility SWPPP Coordinator. The Utility's representative with authority to direct the Utility's work, and who is responsible for coordination with the Superintendent and Storm Water Lead, and for the Utility's compliance with the SWPPP.

641-1.03 PLAN AND PERMIT SUBMITTALS. For plans listed in Subsection 108-1.03.5 (SWPPP and HMCP) use the Contractor submission and Department review deadlines identified in Subsection 641-1.03.

Partial and incomplete submittals will not be accepted for review. Any submittal that is re-submitted or revised after submission, but before the review is completed, will restart the submittal review timeline. No additional Contract time or additional compensation will be allowed due to delays caused by partial or incomplete submittals, or required re-submittals.

1. Storm Water Pollution Prevention Plan. Submit one hard copy of the SWPPP to the Project Engineer for approval. Deliver this document to the Project Engineer at least

21 days before beginning Construction Activity. Organize and bind the SWPPP and related documents for submittal according to the requirements of Subsection 641-2.01.2.

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

Once the SWPPP is approved by the Department, submit two complete copies of the SWPPP to the Project Engineer.

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

3. Spill Prevention, Control and Countermeasure Plan. When a SPCC Plan is required under Subsection 641-2.03, submit an 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. CGP Coverage. The Contractor is responsible for permitting of Contractor and subcontractor Construction Activities related to the Project. The Contractor cannot use the SWPPP for Support Activities outside the Project Area where the Department is not an operator.

   After Department approval of the SWPPP and prior to beginning Construction Activity, submit an eNOI with the required fee to ADEC for coverage under the Construction General Permit (CGP). Submit a copy of the signed eNOI and ADEC's acknowledgement letter to the Project Engineer when the eNOI is submitted to ADEC.

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

   The Department will submit an eNOI to ADEC for Construction Activities inside the Project Area. The Project Engineer will provide the Contractor with a copy of the Department's eNOI and ADEC's acknowledgment letter, for inclusion in the SWPPP.

5. Ending CGP Coverage. Submit an eNOT to ADEC, and submit both a copy of the signed eNOT and ADEC's acknowledgement letter to the Department, within 30 days after the Project Engineer has determined the conditions listed in Subsection 641-3.01.6 have been met.

6. ADEC SWPPP Review. When CGP, Part 2.1.3 - requires ADEC SWPPP review:
   a. Transmit a copy of the Department-approved SWPPP to ADEC using delivery receipt confirmation;
   b. Transmit a copy of the delivery receipt confirmation to the Project Engineer within seven days of receiving the confirmation; and
   c. Retain a copy of delivery receipt confirmation in the SWPPP.

7. Local Government SWPPP Review. When local government or the CGP Part 2.1.4 requires local government review:
   a. Transmit a copy of the Department-approved SWPPP and other information, as required, to local government, with the required fee using delivery receipt confirmation;
   b. Transmit a copy of the delivery receipt confirmation to the Project Engineer within seven days of receiving the confirmation;
   c. Transmit a copy of any comments by the local government to the Project Engineer within seven days of receipt;
   d. Amend the SWPPP as necessary to address local government comments and transmit SWPPP Amendments to the Project Engineer within seven days of receipt of the comments;
   e. Include a copy of local government SWPPP review letter in the SWPPP; and
   f. Before ending permit coverage file a project ending notification with local government and allow them to inspect the work.

8. Modifying Contractor's eNOI. When required by The CGP Part 2.7, modify your eNOI to update or correct the information. Reasons for modification include change to the start or end dates, small changes in number of acres to be disturbed, change in decision to use or not use treatment chemicals, or changed location of SWPPP Records.

   The Contractor must submit an eNOT and then submit a new eNOI instead of an eNOI modification when: the operator has changed, the original eNOI indicates disturbed area less than five acres and the project will disturb more than five acres, or a project over five disturbed acres grows by more than 50%.

641-1.04 PERSONNEL QUALIFICATIONS. The SWPPP 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, as a Storm Water Lead or SWPPP writer, or equivalent. 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

For Projects disturbing more than 20 acres, the SWPPP Preparer must also have completed a Department approved SWPPP Preparation course.

The Superintendent must meet the following qualifications:

a. Current certification as AK-CESCL; and
b. Duly authorized representative, as defined in the CGP, Appendix A, Part 1.12.3

The Storm Water Lead must have current certification as AK-CESCL, and be knowledgeable in the requirements of that position as defined in the CGP, Appendix C, Qualified Person.

The Active Treatment System (ATS) operator must have current certification as AK-CESCL, and be knowledgeable in the principals and practices of treatment systems in general, and the operation of the ATS in particular. Minimum experience to be 6 months field experience or completion of an ATS manufacturer's training course.

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

641-1.05 SIGNATURE/CERTIFICATION REQUIREMENTS AND DELEGATIONS.

1. eNOI and eNOT. The eNOI and eNOT must be signed and certified by a responsible corporate officer according to CGP Appendix A, Part 1.12.2. Signature and certification authority for the eNOI and eNOT cannot be delegated.

2. Delegation of Signature Authority for Other SWPPP Documents and Reports. Use Form 25D-108 to delegate signature authority and certification authority to the Superintendent position, according to CGP Appendix A, Part 1.12.3, for the SWPPP, Inspection Reports and other reports required by the CGP. The Project Engineer will provide the Department's delegation Form 25D-107, which the Contractor must include in the SWPPP.

3. Subcontractor Certification. Subcontractors must certify that they have read and will abide by the CGP and the conditions of the project SWPPP.

641-1.06 RESPONSIBILITY FOR STORM WATER PERMIT COVERAGE.

1. The Department and the Contractor are jointly responsible for permitting and permit compliance within the Project Area.

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 ADEC and 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.

641-1.07 UTILITY RELOCATION COVERAGE. A Utility company is not an Operator when utility relocation is performed concurrently with the Project, as outlined in Section 105-1.06. The Department maintains operational control over the Utility's plans and specifications for coordination with project construction elements, and the Contractor has day-to-day control over the various utility construction activities that occur in support of the Project. A Utility company is considered a subcontractor for concurrent relocation.

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

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

1. SWPPP Preparer and Pre-Construction Site Visit. Use a SWPPP Preparer to develop the SWPPP and associated documents, according to the requirements of the CGP. The SWPPP Preparer must put their name, qualifications (including the expiration date of any certifications), title and company name in the SWPPP.

   The SWPPP Preparer must conduct a pre-construction inspection at the Project site before construction activity begins. If the SWPPP Preparer is not a Contractor employee, the SWPPP Preparer must visit the site accompanied by the Contractor.

Give the Department at least seven days' notice of the site visit, so that the Department may participate.

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

a. Opportunities to phase construction activities;
b. Appropriate BMPs and their sequencing; and
c. Sediment controls that must be installed prior to beginning Construction Activities.

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

2. Developing the SWPPP. Use the Department's ESCP and other Contract documents as a starting point for developing the SWPPP. The approved SWPPP replaces the ESCP.

   Develop the SWPPP framework according to the ADNR SWPPP template with additional information as required. Include information required by the CGP, Part 5, and this specification.

   When using the ADNR SWPPP template:

   The following appendices can found on the ADNR D&C website:
   http://dnr.alaska.gov/parks/designconstruct/swppp.htm

   - Include the following appendices:

   - Appendix A – Site Maps and Drawings
   - Appendix B – BMP Details
   - Appendix C – Project Schedule
   - Appendix D – Supporting Documentation: TMDLs, Endangered Species, Historical Properties, & Project Permits
   - Appendix E – Certifications and Delegation of Authority
   - Appendix F – Subcontractor Certifications
   - Appendix G – Permit Conditions: Copy of Signed Notice of Intent (Include both Department's and Contractor's), Confirmation of Delivery of NOI to ADEC (Include both Department's and Contractor's), Copy of Letter from ADEC Authorizing Coverage with ADEC NOI Tracking Number (Include both Department's and Contractor's), and Copy of 2011 Alaska Construction General Permit
   - Appendix H – Personnel Qualifications and Training Certificates for:
     - SWPPP Preparer

- Storm Water Lead/Inspector
- Contractor's ATS Operator
- Qualified personnel must be described in a list with names and dates in positions

- Appendix I – SWPPP Pre-Construction Site Visit
- Appendix J – Amendment Log
- Appendix K – Corrective Action Log
- Appendix L – Grading and Stabilization Records
- Appendix M – Hazardous Material Control Plan
- Appendix N – Training Log
- Appendix O – Rainfall Record
- Appendix P – Inspection Reports
- Appendix Q – Delayed Action Item Report
- Appendix R – Project Staff Tracking Form
- Appendix S – Monitoring Plan (If applicable) and Reports

Obtain the following forms after they have been completed by the Department and include them in the SWPPP:

- SWPPP Delegation of Signature Authority – ADNR (25D-107)
- SWPPP Certification for ADNR (25D-109)

Use the following Department forms for recording information in the SWPPP:

- SWPPP Amendment Log (25D-114)
- SWPPP Certification for Contractor (25D-111)
- SWPPP Construction Site Inspection Report (25D-100)
- SWPPP Corrective Action Log (25D-112)
- SWPPP Daily Record of Rainfall (25D-115)
- SWPPP Delegation of Signature Authority – Contractor (25D-108)
- SWPPP Grading and Stabilization Activities Log (25D-110)
- SWPPP Pre-Construction Site Visit (25D-106)
- SWPPP Project Staff Tracking (25D-127)
- SWPPP Subcontractor Certification (25D-105)
- SWPPP Training Log (25D-125)

SWPPP Forms are at: http://dnr.alaska.gov/parks/designconstruct/swppp.htm

Compile the SWPPP in three ring binders with tabbed and labeled dividers for each section and appendix.

3. <u>SWPPP Considerations and Contents</u>.

The SWPPP must provide erosion and sediment control measures for all Construction Activity within the Project Area. Support Activities outside the Project Area must have permit coverage, using separate SWPPP2s, and separate Contractor Inspections.

The SWPPP must consider the activities of the Contractor and all subcontractors and utility companies performing work in the Project Area. The SWPPP must describe the roles and responsibilities of the Contractor, subcontractors, utility companies, and the Department with regard to implementation of the SWPPP. The SWPPP must identify all operators for the Project, including utility companies performing Construction Activity, and identify the areas:

a. Over which each operator has operational control; and
b. Where the Department and Contractor are co-operators.

For work outside the Project Area the SWPPP must identify the entity that has stormwater permit coverage, the operator, and the areas that are:

a. Dedicated to the Project and where the Department is not an operator; and
b. Not dedicated to the project, but used for the project.

Develop the SWPPP according to the requirements of the CGP and this specification, and account for the Contractor's construction methods and phasing.

Design temporary BMPs for a 2 year 24 hour precipitation amount. Describe BMPs in the SWPPP and in SWPPP Amendments, including source controls, sediment controls, discharge points, and all temporary and permanent stabilization measures. Describe the design, placement, installation, and maintenance of each BMP, using words and drawings as appropriate. Provide a citation to the BMP Manual or publication used as a source for the BMP, including the title of the BMP Manual or publication, the author (individual or agency), and date of publication. If no published source was used to select or design a BMP, then the SWPPP or SWPPP amendment must state that "No BMP manual or publication was used for this design."

Describe the sequence and timing of activities that disturb soils and of BMP implementation and removal. Phase earth disturbing activities to minimize unstabilized areas, and to achieve temporary or final stabilization quickly. Whenever practicable incorporate final stabilization work into excavation, embankment, and grading activities.

Identify in the SWPPP whether Inspections are conducted:

a. Areas where the mean annual precipitation is 15 inches or less, inspect once at least once every fourteen (14) calendar days and within twenty-four (24) hours of the end of a storm event that resulted in a discharge from the project area.
b. Areas where the mean annual precipitation is greater than 15 and less than 40 inches: inspect once every seven (7) days;

c. Areas where the mean annual precipitation is 40 inches or greater: inspect once every seven (7) days, and twice every seven days during periods of relatively continuous precipitation or sequential storm events.

The SWPPP must cite and incorporate applicable requirements of the Project permits and commitments related to historic preservation. Make additional consultations or obtain permits as necessary for Contractor specific activities which were not included in the Department's permitting and consultation.

The SWPPP is a dynamic document. Keep the SWPPP current by noting installation, modification, and removal of BMPs, and by using amendments, SWPPP amendment logs, Inspection Reports, corrective action logs, records of land disturbance and stabilization, and any other records necessary to document storm water pollution prevention activities and to satisfy the requirements of the CGP and this specification. See Subsection 641-3.03 for more information.

4. Recording Personnel and Contact Information in the SWPPP.

Include in the SWPPP, Records of the AK-CESCL cards or certificates for the Storm Water Lead, and for any acting Storm Water Lead. If the Storm Water Lead is replaced permanently or temporarily, by an acting Storm Water Lead; record in the SWPPP (use Form 25D-127) 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 Storm Water Lead. The Storm Water Lead must have 24 hour contact information for all Subcontractor SWPPP Coordinators and Utility SWPPP Coordinators.

Include in the SWPPP, Records of the AK-CESCL cards or certificates of storm water inspectors, and ATS operators. Record their beginning and ending dates.

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 SWPPP. 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.

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 SWPPP.

641-2.04 RESPONSIBILITY AND AUTHORITY OF THE SUPERINTENDENT AND STORM WATER LEAD

The Superintendent is responsible for the overall operation of the Project and all Contractor furnished sites and facilities directly related to the Project. The Superintendent shall sign and certify the SWPPP. The Storm Water Lead shall sign and certify the SWPPP, Inspection Reports and other reports required by the CGP, except the NOI and NOT. The Superintendent and Storm Water Lead may not delegate the task or responsibility of signing and certifying the SWPPP submitted under Subsection 641-1.03.1, Inspection Reports, and other reports required by the CGP.

The Superintendent may assign certain duties to the Storm Water Lead; those duties may include:

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

The Storm Water Lead has authority to work in the following positions named in the CGP, Appendix C, Qualified Person: Storm Water Lead and Storm Water Inspector. The Storm Water Lead has authority to work in all the position of ATS Operator if they meet the knowledge and experience qualifications listed in 1.04..

The Superintendent and Storm Water Lead shall be knowledgeable in the requirements of this Section 641, the SWPPP, CGP, BMPs, HMCP, SPCC Plan, environmental permits, environmental commitments, and historic preservation commitments.

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

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

- Use the temporary seed mixture specified by special provision, or use annual rye grass if no temporary seed mix is specified.
- Use soil stabilization material as specified in Section 727.
- Use silt fences as specified in Section 729.

- Use straw that is certified as free of noxious weed by the United States Department of Agriculture, Natural Resources Conservation Service, Local Soil and Water Conservative District. Alaska Weed Free Forage Certification Program must be used when available. Hay may not be substituted for straw.
- Use a rain gauge.

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

641-3.01 CONSTRUCTION REQUIREMENTS. Comply with the SWPPP and CGP requirements.

1. Before Construction Activity may Begin.

   a. Confirm the following:

      1) The SWPPP Preparer must visit the Project, the visit must be documented in the SWPPP, and the SWPPP must be developed (or amended) with findings from the visit;
      2) The SWPPP must be approved by the Project Engineer;
      3) The Contractor must be authorized to begin by the Project Engineer;
      4) The Project eNOIs for the Department and for the Contractor, as well as any other eNOIs if there are additional operators, must be listed as Active Status on the ADEC website; and
      5) The Department approved SWPPP must be submitted to ADEC and Local Government (when required).

   b. Post notices containing the following information:

      1) Copy of all eNOIs related to this project;
      2) Name and 24 hour phone number of Storm Water Lead; and
      3) Location of the SWPPP.

      Post notices on the outside wall of the Contractor's project office, and near the main entrances of the construction project. Protect postings from the weather. Locate postings so the public can read them without obstructing construction activities or the traveling public (for example, at an existing pullout). Do not use retroreflective signs for the SWPPP posting. Do not locate SWPPP signs in locations where the signs may be confused with traffic control signs or devices. Update the notices if the listed information changes, for instance if the location of the SWPPP or contact person changes during the winter.

   c. Install an outdoor rain gauge per manufacturer's guidance, in an accessible location on the Project.

d. Delineate the site for both land disturbing activities and areas that will be left undisturbed. Install sediment controls and other BMPs that must be placed prior to the initiation of Construction Activity.

The CGP Part 4.10.3 allows cutting of trees and brush while the ground is frozen, without disturbing the vegetative mat, prior to submitting an eNOI.

2. During Construction.

Make copies of the applicable portions of the SWPPP available to subcontractors and utility companies before they begin soil disturbing activities. Inform subcontractors and utility companies of amendments that affect them in a timely manner. Ensure all subcontractors who engage in soil-disturbing activities understand and comply with the SWPPP and the CGP, and have signed a SWPPP Subcontractor Certification, Form 25D-105, before they conduct the activity. Include SWPPP Subcontractor Certifications as an appendix to the SWPPP. Provide SWPPP information to utility companies. Coordinate with subcontractors and utility companies doing work in the Project Area so that BMPs, including temporary and permanent stabilization, are installed, maintained, and protected from damage.

Provide on-going training to employees and subcontractors, on control measures at the site and applicable storm water pollution prevention procedures. Training must be specific to the installation, maintenance, protection, and removal of control measures. Training must be given at a frequency that will be adequate to ensure proper implementation and protection of control measures. Document on the SWPPP Training Log. Form 25D-125, the dates and attendees to these trainings. Include the SWPPP Training Log as an appendix to the SWPPP.

Notify the Project Engineer immediately if the actions of any utility company or subcontractor do not comply with the SWPPP and the CGP.

Comply with Subsection 107-1.11 Protection and Restoration of Property and Landscape. Do not install concrete washout containment within 100 feet of wetlands and/or other water bodies.

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 SWPPP and HMCP current (refer to Subsection 641-2.01.3, SWPPP Considerations and Contents)

3. Pollutant and Hazardous Materials Reporting Requirements.

If there has been an incident of non-compliance with the CGP that may endanger health or the environment, immediately report the incident to ADEC according to the CGP, Appendix A, Part 3.0. Notify the Project Engineer immediately and to the extent possible coordinate reports to ADEC with the Project Engineer. The report must include:

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

Report spills of petroleum products or other hazardous materials to the Project Engineer and other agencies as required by law. Use the HMCP and SPCC Plan (if available) for contact information to report spills to regulatory agencies. See CGP Part 4.8.

4. Corrective Action and Maintenance of BMPs.

a. Implement corrective action:
   1) If an incident of non-compliance with the SWPPP, or CGP is identified;
   2) If an Inspection identifies the SWPPP or any part of the SWPPP is ineffective in preventing erosion, sedimentation or the discharge of pollutants;
   3) If the Project Engineer determines the SWPPP or any part of the SWPPP is ineffective in preventing the erosion, sedimentation, or the discharge of pollutants;
   4) If a required BMP was never installed, was installed incorrectly, or not in accordance with the CGP Part 4.0;
   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 available storage allowed by the CGP (or manufacturer's specifications or SWPPP 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 as specified in CGP Part 4.6 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, at discharge points or entry points into the storm sewer system, 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 before the next storm event;
   3) Corrective action is completed in time to protect water quality; and
   4) Corrective action is completed no later than the Complete-by-Date that was entered in an Inspection Report (see Subsection 641-3.03.2 for more information).

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

If a corrective action could affect a subcontractor, notify the subcontractor within three days of taking the corrective action.

Train subcontractors to identify conditions that require corrective action. Subcontractors are required to notify the Contractor within 24 hours of becoming aware of a condition(s) that requires corrective action.

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 SWPPP.

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

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

Temporary or Permanent Seeding.

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

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

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

Stream By Pass.

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

Install temporary and permanent stabilization:

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

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

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

6. Ending CGP Coverage and BMP Maintenance.

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

a. Land disturbing activities have ceased;

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 for ending CGP coverage have been met, the Department will:

a. Send written notice to the Contractor with the date that the conditions were met;
b. Submit an eNOT to ADEC; and
c. Provide a copy of the eNOT and ADEC's acknowledgement letter to the Contractor.

The Contractor is responsible for ending permit coverage within the Project Area, by submitting an eNOT to ADEC within 30 days of meeting the conditions for ending CGP coverage. The Contractor is responsible for BMP maintenance and SWPPP updates until permit coverage is ended.

If the Contractor's CGP eNOI acreage includes Support Activities where the Department is not an Operator, the Contractor may not be able to file an eNOT at the same time as the Department. In this case, the Contractor must amend the SWPPP and separate SWPPP2(s), to indicate the Department's CGP coverage has ended, and the Department is no longer an Operator within the Project Area.

The Contractor must indicate in the SWPPP the areas that have reached Final Stabilization, and the dates land disturbing activities ended and Final Stabilization was achieved. The Contractor must submit an eNOT to ADEC, and insert copies of the Department's and the Contractor's eNOTs with ADEC's acknowledgement letters in the appendix of the SWPPP.

The Contractor must submit a copy of each signed eNOT and ADEC's acknowledgement letter to the Department within 30 days of receiving them.

7. Transmit final SWPPP.

Transmit one copy of the final SWPPP, including all amendments and appendices, to the Project Engineer when the project eNOTs are filed, or within 30 days of the Department's eNOT being filed, whichever is sooner. Transmittal must be by both electronic and hard copy.

641-3.02 SWPPP DOCUMENTS, LOCATION ON-SITE, AVAILABILITY, AND RECORD RETENTION. The SWPPP and related documents maintained by the Contractor are the Record for demonstrating compliance with the CGP. Copies of SWPPP documents transmitted to the Project Engineer under the requirements of this specification are informational and do not relieve the Contractor's responsibility to maintain complete records as required by the CGP and this specification.

Keep the SWPPP, HMCP and SPCC Plan at the on-site project office. If there is not an on-site project office, keep the documents at a locally available location that meets CGP requirements and is approved by the Project Engineer. Records may be moved to another office for record retention after the eNOTs are filed. Records may be moved to another office during winter shutdown, but this will require updating on-site posted notices. Provide the Department with copies of all Records.

Retain Records and a copy of the SWPPP, for at least three years after the date of eNOT. If EPA or ADEC inspects the project, issues a Notice of Violation (NOV), or begins investigation for a potential NOV before the retention period expires, retain the SWPPP and all Records related to the SWPPP and CGP until at least three years after EPA and/or ADEC has determined all issues related to the investigation are settled.

The SWPPP 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. See CGP Parts 5.10, 6.6 and 9.4.

641-3.03 SWPPP INSPECTIONS, AMENDMENTS, REPORTS, AND LOGS. Perform Inspections, prepare Inspection Reports, and prepare SWPPP Amendments in compliance with the SWPPP and the CGP. Update SWPPP Corrective Action Log, SWPPP Amendment Log, SWPPP Grading and Stabilization Activities Log, and SWPPP Daily Record of Rainfall forms. For active projects update the Records daily.

1. Inspection during Construction.

   Conduct Inspections according to the schedule and requirements of the SWPPP and CGP:

   a. Areas where the mean annual precipitation is 15 inches or less inspect once at least every fourteen (14) calendar days and within twenty-four (24) hours of the end of a storm event that resulted in a discharge from the project area.
   b. Areas where the mean annual precipitation is greater than 15 and less than 40 inches: inspect once every seven (7) days.
   c. Areas where the mean annual precipitation is 40 inches or greater: inspect once every seven (7) days, and twice every seven days during periods of relatively continuous precipitation or sequential storm events.

   Inspections required by the CGP and SWPPP must be performed by the Contractor's Storm Water Lead. 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 Project Engineer within three days of the Inspection date and pictures taken during the inspection.

2. Inspection Reports.

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

4. Reduced Inspection Frequencies.

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

The Project Engineer may waive winter Inspection requirements 14 days after the freeze-up. Inspections must resume inspections 21 days before thawing conditions are expected to result in a discharge, if all the following requirements are met:

a. Frozen conditions are anticipated to continue for more than one month; and
b. Soil disturbing or soil stabilizing activities have been suspended.

The Project Engineer may waive requirements for updating the Grading and Stabilization Activities Log and Daily Record of Rainfall during seasonal suspension of work. If so, resume collecting and recording weather data on the Daily Record of Rainfall form one month before thawing conditions are expected to result in runoff. Resume recording land disturbance and stabilization activities on the Grading and Stabilization Activities Log when Construction Activity resumes.

5. Stabilization before Seasonal Thaw.

Construction Activities within the Project Area must be stabilized with appropriate BMPs prior to seasonal thaw. Seasonal thaw is the annual (first) recurrence of snow and ice melting after a prolonged period of freezing conditions.

6. Inspection before Project Completion.

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

7. Items and Areas to Inspect.

Conduct Inspections of the areas required by the CGP and SWPPP.

8. SWPPP Amendments and SWPPP Amendment Log.

The Superintendent and the Storm Water Lead are the only persons authorized to amend the SWPPP and update the SWPPP Amendment Log, Form 25D-114. The Superintendent or the Storm Water Lead must sign and date amendments to the SWPPP and updates to the SWPPP Amendment Log.

SWPPP 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 SWPPP;
b. If an Inspection identifies that any portion of the SWPPP is ineffective in preventing erosion, sedimentation, or the discharge of pollutants;
c. Whenever an Inspection identifies a problem that requires additional or modified BMPs

d. Whenever a BMP is modified during construction, or a BMP not shown in the original SWPPP 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 SWPPP, according to Subsection 641-2.01.4.

Do not record removal of BMPs as amendments to the SWPPP. See Subsection 641-3.03.9 for documenting removal of BMPs.

Amend the SWPPP 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 SWPPP Amendment must be signed and dated. Cross-reference the amendment number with the Corrective Action Log or SWPPP page number, as applicable. When a BMP is modified or added, describe the BMP according to Subsection 641-2.01.3.

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

Keep the SWPPP Amendment Log as an appendix to the SWPPP.

9. Site Maps.

Document installation, routine maintenance, and removal of BMPs by making notes on the SWPPP 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. Corrective Action Log.

The Storm Water Lead is the only person authorized to make entries on the SWPPP Corrective Action Log, Form 25D-112. Document the need for corrective action within 24 hours of discovery.

Modification or replacement of a BMP, installation of a new BMP not shown in the original SWPPP, or overdue maintenance (after a sediment trap exceeds 50% of design capacity) is a corrective action and must be documented on the Corrective Action Log. Do not record removal of BMPs on the Corrective Action Log.

After each Inspection Report has been signed and certified, update the corrective action log with the date of inspection and include all proposed corrective actions noted on the Inspection Report.

After the corrective action has been accomplished, note the action taken, if a SWPPP amendment was needed, and date and initial the entry.

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

Keep the Corrective Action Log as an appendix to the SWPPP.

11. Grading and Stabilization Activities Log.

The Storm Water Lead is the only person authorized to date and initial entries on the SWPPP Grading and Stabilization Activities Log, Form 25D-110. Use the SWPPP Grading and Stabilization Activities Log, to record land disturbance and stabilization activities.

Keep the Grading and Stabilization Activities Log current and submit a copy to the Project Engineer prior to performing each scheduled SWPPP Inspection.

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

12. Daily Record of Rainfall.

Use SWPPP Daily Record of Rainfall, Form 25D-115, to record weather conditions at the Project. Update the form daily and include the initials of the person recording each day's entry. Submit a copy to the Project Engineer prior to performing each scheduled Inspection. Keep the Daily Record of Rainfall as an appendix to the SWPPP.

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 CGP or SWPPP 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 SWPPP Administration;
    c. Perform timely Inspections;
    d. Update the SWPPP;
    e. Transmit updated SWPPP, Inspection Reports, and other updated SWPPP forms to the Project Engineer;
    f. Maintain effective BMPs to control erosion, sedimentation, and pollution in accordance with the SWPPP, the CGP, and applicable local, state, and federal requirements;
    g. Perform duties according to the requirements of this Section 641; or
    h. Meet requirements of the CGP, SWPPP, or other permits, laws, and regulations related to erosion, sediment, or pollution control.

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

641-4.01 METHOD OF MEASUREMENT. Section 109.

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

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

TABLE 641-1 BMP VALUES
- RESERVED -

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

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

2. Failure to perform Inspections: By each 24 hour period, that a required SWPPP inspection is delayed or is not signed, certified, or completed in accordance with the schedule identified in the approved SWPPP a price adjustment of $750 will be assessed.

3. Failure to perform Corrective Action. By each 24 hour period following 24 hours after written notice by the Project Engineer, per occurrence, a price adjustment of $750 will be assessed where the Contractor:

    - fails to complete SWPPP administrative requirements as identified in the Contract or the CGP,
    - fails to initiate work required by the SWPPP, or
    - fails to initiate corrective action to respond to a deficiency noted during an inspection or by the Project Engineer.

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

Item 641(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, SWPPP and HMCP and SPCC Plan preparation, agency fees for SWPPP reviews, Storm Water Lead (when not included as a separate Pay Item under 641(7)) SWPPP amendments, pre-construction Inspections, Inspections, monitoring, reporting, and Record keeping or copying Records related to the SWPPP and required by the CGP, 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 SWPPP and SPCC Plan.

Item 641(6) Withholding. 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, CGP, 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;
b. Shoring;
c. Bailing;
d. Permanent seeding;
e. Installation and removal of temporary work pads;
f. Temporary accesses;
g. Temporary drainage pipes and structures;
h. Diversion channels;
i. Settling impoundment; and
j. Filtration.

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

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

Payment will be made under:

Pay Item	Pay Unit
641(1) Erosion, Sediment, and Pollution Control Administration	Lump Sum
641(2) Temporary Erosion, Sediment, and Pollution Control	Contingent Sum
641(6) Withholding	Contingent Sum

SECTION 642

CONSTRUCTION SURVEYING AND MONUMENTS

642-3.02 CROSS-SECTION SURVEYS Add the following:

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

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

(05/02/11)PARKS-Special Provision

642-3.04 OFFICE ENGINEERING. Delete third sentence and replace with:

Perform the work by, or under the responsible charge of, a person registered in the State of Alaska as a Professional Land Surveyor or a Professional Engineer.

(05/01/07)E53-Standard Modification

Add the following Subsection:

642-3.06 AS-BUILT SURVEY. Perform as-built survey work with OPUS Solution in conformance with the State of Alaska, Department of Natural Resources, Division of Parks and Outdoor Recreation As-Built Survey Instructions found in Appendix B.
(01/02/18)PARKS-Special Provision

642-4.01 METHOD OF MEASUREMENT. Add the following: Clearing required for stake visibility shall not be measured. Maintenance of stakes will not be measured.
(01/01/06)PARKS-Special Provision

Add the following:

Item 642(13) As-Built Survey. As-Built Survey will not be measured separately for payment. Final acceptance of as-built drawings and OPUS Solution report will constitute method of measurement.

642-5.01 BASIS OF PAYMENT. Add the following:

Clearing required for stake visibility is subsidiary to Item 642(1) and no separate payment shall be made. As-Built Survey is subsidiary to Item 642(1) and no separate payment shall be made. (01/01/06)PARKS-Special Provision

Add the following:

Item 642(13) As-Built Survey. Lump sum payment for Item 642(13) shall be full compensation for all fieldwork, research, office work, and incidentals necessary to produce as-built drawings, signed and sealed, in conformance with these specifications and accepted by the Division of Mining, Land and Water Survey Section with OPUS Solution report.

Pay Item	Pay Unit
642(13) As-Built Survey	Lump Sum

(01/03/18)PARKS-Special Provision

Replace Section 643 with the following:

SECTION 643

TRAFFIC MAINTENANCE

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

643-1.02 DEFINITIONS.

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

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

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

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

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

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

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

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

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

2. Barricades and Vertical Panels. Use barricades and vertical panel supports that conform to the ATM. Use Type III Barricades at least 8 feet long. Use reflective sheeting that meet AASHTO M 268 Type II or III.

3. Warning Lights. Use Type A (low intensity flashing), Type B (high intensity flashing) or Type C (steady beam) warning lights that conform to the ATM.

4. Drums. Use plastic drums that conform to the requirements of the ATM. Use reflective sheeting that meets AASHTO M 268 Type II or III.

5. Traffic Cones and Tubular Markers. Use reflectorized traffic cones and tubular markers that conform to the requirements of the ATM. Use traffic cones and tubular markers at least 28 inches high. Use reflective sheeting that meets AASHTO M 268 Type II or III.

6. Plastic Safety Fence. Use 4 foot high construction orange fence manufactured by one of the following companies, or an approved equal:
   a. "Safety Fence" by Jackson Safety, Inc., Manufacturing and Distribution Center, 5801 Safety Drive NE, Belmont, Michigan, 49306. Phone (800) 428-8185.
   b. "Flexible Safety Fencing" by Carsonite Composites, LLC, 19845 U.S. Highway 76, Newberry, South Carolina, 29108. Phone (800) 648-7916.
   c. "Reflective Fencing" by Plastic Safety Systems, Inc., 2444 Baldwin Road, Cleveland, Ohio 44104. Phone (800) 662-6338.

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

The campgrounds may be closed to traffic. Campground closure is intended to complete the work in this contract. All closures must be included in the Traffic Control Plan (TCP) and coordinated through the Project Engineer. Please give the Project Engineer 2 weeks' notice prior to any closures. However, the campgrounds must be open to the public from June 29, 2018 to July 9, 2018. Work may continue with minimum interference with public. The conditions of the campgrounds must be suitable for camping, including easy access to each campground, drivable campground roads, and access to campsites and other park amenities. Additional traffic control plan shall be submitted for June 29, 2018 to July 9, 2018, to maximize the safety of the public and to reduce potential dangers of a construction area.

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

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

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

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

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

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

643-4.01 METHOD OF MEASUREMENT. Item 643(2) Traffic Maintenance is a lump sum item and will not be measured directly for payment. The approved schedule of values and Engineer's approval shall constitute method of measurement.

643-5.01 BASIS OF PAYMENT. Item 643(2) Traffic Maintenance will be paid for at the contract lump sum price. Payment shall be full compensation for all the labor, equipment, material, and incidentals necessary to complete the work under this Section.

Payment will be made under:

Pay Item	Pay Unit
643(2) Traffic Maintenance	Lump Sum

(06/18/13)PARKS-Special Provision

SECTION 646

CPM SCHEDULING

646-2.01 SUBMITTAL OF SCHEDULE. Replace this Subsection with the following: Submit a detailed initial CPM Schedule at the preconstruction conference for the Engineer's acceptance as set forth below.

The construction schedule for the entire Project shall not exceed the specified contract time. Allow the Engineer fourteen (14) days to review the initial CPM Schedule. Revise promptly. The finalized CPM Schedule must be completed and accepted before beginning work on the Project.

646-3.01 REQUIREMENTS AND USE OF SCHEDULE.

Delete item 2. 60-Day Preliminary Schedule.

Replace the first sentence of item 3. Schedule Updates. with the following: Hold job site progress meetings with the Engineer for the purpose of updating the CPM Schedule. Meet with the Engineer monthly or as deemed necessary by the Engineer.

(12/13/02)CR261-Special Provision

642-5.01 BASIS OF PAYMENT. Add the following:

CPM scheduling will be subsidiary to Item 640(1) Mobilization and Demobilization and no separate payment shall be made. (01/01/06)PARKS-Special Provision

Add the following Section:

SECTION 647

EQUIPMENT RENTAL

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

The Engineer will provide direction to the Contractor's supervisory personnel only, not to the operators or laborers. In no case shall direction by the Engineer be construed as making the Department liable for the Contractor's responsibility to prosecute the work in the safest and most expeditious manner.

647-2.01 EQUIPMENT FURNISHED. In the performance of this work, furnish, operate, maintain, service, and repair equipment of the numbers, kinds, sizes, and capacities set forth on the Bid Schedule or as directed by the Engineer. The kinds, sizes, capacities, and other requirements set forth shall be understood to be minimum requirements. The number of pieces of equipment to be furnished and used shall be, as the Engineer considers necessary for economical and expeditious performance of the work. The equipment shall be used only at such times and places as the Engineer may direct.

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

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

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

Furnish, without direct compensation, a job superintendent or Contractor's representative together with such other personnel as are needed for Union, State, or Federal requirements and in servicing, maintaining, repairing and caring for the equipment, tools,

supplies, and materials provided by the Contractor and involved in the performance of the work.

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

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

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

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

647-4.01 METHOD OF MEASUREMENT. The number of hours of equipment operation to be paid for shall be the actual number of hours each fully operated specified unit of equipment is actually engaged in the performance of work in the designated areas according to the direction of the Engineer. The pay time will not include idle periods, time used in oiling, servicing, or repairing of equipment, or in making changeovers of parts to the equipment. Travel time to or from the work site project will not be authorized for payment.

647-5.01 BASIS OF PAYMENT. Payment for Item 647(6) Hydraulic Excavator, 1 C.Y., 100 HP, Minimum, will be paid at the contract price for the number of hours required to complete the work according to the Engineer's direction. This shall be full compensation for furnishing, operating, maintaining, servicing and repairing the equipment, and for incidental costs related to the equipment. Furnishing and operating of equipment of heavier type, larger capacity, or higher wattage than specified will not entitle the Contractor to extra compensation.

Payment will be made under:

Pay Item	Pay Unit
647(6) Hydraulic Excavator, 1 CY, 100 HP, Minimum	Hour

(08/24/05)R15-Special Provision

Add the following Section:

SECTION 650

PARK FACILITIES

650-1.01 DESCRIPTION. This work shall consist of furnishing, constructing and placing park facilities in conformance with the plans and Special Provisions**.**

650-1.02 APPLICABLE ACCESSIBILITY STANDARD. Americans with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities.

650-1.03 SUBMITTALS AND SUBSTITUTIONS. Conform to Subsection 106-1.01.

MATERIALS

650-2.01 GENERAL. All materials shall be new and conform to the details shown on the plans or as specified.

650-2.02 CONCRETE. Class A Concrete conforming to Section 501.

650-2.03 STRUCTURAL STEEL. Structural steel shall conform to the requirements of ASTM Specification A36 (Standard Specification for Carbon Structural Steel).

650-2.04 GALVANIZING. Conform to AASHTO M111/ASTM A123 (Standard Specification for Zinc [Hot-Dip Galvanized] Coatings on Iron and Steel Products), or AASHTO M232/ASTM A153 (Standard Specification for Zinc Coating[Hot-Dip] on Iron and Steel Hardware). Repair damaged galvanizing by using low melting point zinc repair rods in conformance with ASTM A780 (Standard Practice for Repair of Damaged and Uncoated Areas of Hot-Dip Galvanized Coatings).

650-2.05 LUMBER. Conform to Section 713. Wood species shall be Douglas Fir or Hem-fir unless otherwise specified.

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

2. Rough Cut. Unless otherwise indicated, rough cut lumber and timbers are shown on the plans in actual dimensions, i.e.; 2"x4", indicating rough cut material. Use

classification shall be Structural Lumber, No. 2 Grade or Better. Manufacturing classification shall be Rough Lumber. Size classification shall be Rough Dry Sizes.

650-2.06 TREATED LUMBER. Wood species conforms to Subsection 650-2.06.

Treatment shall be as follows:

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

2. Ground Contact Applications. Preservative pressure treatment shall conform to Section 714. Pressure treat with preservative Ammonical Copper Quat - Type A,B,C, or D(ACQ-A,B,C, or D) or Copper Azole – Type A (CBA-A). Minimum retention shall be 0.60 pounds per cubic foot. Exposed treated materials shall be pigmented uniformly brown in color by manufacturer.

650-2.07 RECYCLED PLASTIC LUMBER. Recycled plastic lumber shall contain a minimum of 90% recycled HDPE. Recycled plastic lumber shall have a minimum flexural strength of 1355 psi and compressive strength of 1420 psi as determined by ASTM D6109, minimum specific gravity of 0.861 g/cc as determined by ASTM D6111, and a maximum thermal expansion of 0.000033 inch/inch/degree F as determined by ASTM D6341. The lumber shall also incorporate an ultraviolet stabilizer at the time of manufacturing. Color shall be as determined by the Engineer.

650-2.08 FASTENERS. Commercial quality and type of nails and screws as required to securely hold all members in place in accordance with National Design Specifications (NDS). Nails shall be hot dipped galvanized. All other fasteners shall be corrosion resistant. Fasteners in pressure treated wood shall be hot dipped galvanized. Nails and wood screws below grade in pressure treated wood shall be stainless steel.

650-2.09 STANDARD PARK PADLOCK. Master Lock No. 1 with 5/16 inch shackle diameter, 15/16 inch vertical clearance, 3/4 inch horizontal clearance, 1-3/4 inch case width, and keyed alike to a key number provided by the Engineer specific to the Park area. Provide two keys with each padlock.

650-2.10 PAINT. Unless otherwise specified, use the following paint types and colors, or approved equals:

1. Solid Oil Stain. Exterior oil/alkyd flat finish stain, color “Russet”. DF7XX as manufactured by Fuller O’Brien / Devoe Products, Sun-Proof Solid Alkyd/Oil Stain (77-1354) as manufactured by Pittsburgh Paint Company, Behr Plus 10 Solid Stain,

Rural Manor II Solid Color Stain (714401x) as manufactured by Rodda Paint Co., or approved equivalent. Submit color samples of proposed substitutions for approval.

2. Semi-Transparent Oil Stain. Exterior alkyd based stain, color Sherwin Williams "SW 3507 Riverwood", Behr Superdeck "#1907 Canyon Brown", or PPG Architectural Finishes Olympic "Russet".

3. Clear Oil Stain. Non-pigmented penetrating exterior alkyd base stain formulated for water repellency.

4. Metal Primer Paint. As recommended by enamel paint manufacturer.

5. Enamel Paint. Exterior alkyd base gloss enamel. Color to match solid oil stain color.

6. Concrete Sealer. Clear acrylic copolymer conforming to AASHTO M148/ASTM C309 (Standard Specification for Liquid Membrane-Forming Compounds for Curing Concrete, for Type 1 Compounds).

7. Above Ground Wood Preservative. Brown preservative with active ingredient of minimum 9.08 percent copper naphthenate (equivalent to minimum 1 percent metallic copper). Color to be approved by Engineer.

8. Below Ground Wood Preservative. Preservative with active ingredient of minimum 16 percent copper naphthenate (equivalent to minimum 2 percent metallic copper).

9. End Cut Preservative for Treated Wood. Brown preservative with active ingredient of minimum 10 percent copper naphthenate (equivalent to minimum 1 percent metallic copper). Color to match preservative pressure treatment color.

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

650-2.11 SIGNS. Fabricate sign panels to the dimensions shown on Plans. Metal sign panels shall be 0.125 inch thick alloy 6061-T6, 5052-H36, or 5052-H38 aluminum. Wood sign panels shall be medium density overlay (MDO) plywood. Signs shall have Type II (medium intensity) reflective sheeting background with color as specified. White high intensity sheeting for symbols, letters, and borders shall match 3M Scotchlite Reflective Sheeting #3290. Brown medium intensity sheeting for background shall match 3M Scotchlite Reflective Sheeting #3279.

650-2.12 PICNIC TABLE. Lumber dimensions shall meet dimensions shown on Standard Drawing C-1, Picnic Table, which typically vary from manufactured kits. Steel picnic table frames shall have 2-3/8 inch O.D. galvanized pipe legs with minimum 1/8 inch wall thickness, and galvanized hardware as follows:

2 each Welded Pipe End Frame

2 each Pipe Brace (minimum 15/16 inch O.D.) with bolts, washers, and nuts.
1 each Table Top Center Channel or Angle (minimum 1/8 inch)
26 each 3/8 inch x 2-1/4 inch Carriage Bolt with nut and washers.

Note: Hardware dimensions may vary according to model and manufacturer.

Listed below are possible sources of picnic tables. It is the responsibility of the Contractor to ensure that the above fabrication requirements are met and that the final product is in conformance with DPOR Standard Drawing C-1.

Iron Mountain Forge / Little Tykes
P.O. Box 897
One Iron Mountain Drive
Farmington, MO 63640
800-325-8828

Pilot Rock
R.J. Thomas Manu. Co, Inc.
P.O. Box 946
Cherokee, Iowa 51012
800-762-5002

Game Time
626 128th Street SW, #104-A
Everett, Washington 98204
800-541-0869

Gerber Manufacturing, Inc.
2917 Latham Drive
Madison, WI 53713
(800) 393-9923

Seat and table top lumber shall be recycled plastic lumber conforming to subsection 650-2.08. Table top and bench lumber support may vary from what is shown on DPOR Standard Drawing C-1.

Steel reinforcement plates and angle iron shall be galvanized.

The tie down anchor system shall consist of 3/16-inch diameter high strength galvanized steel tie down cable with an earth driven anchor. Earth driven anchor shall be Duckbill Earth Anchor Model 68-ATI as manufactured by Foresight Products, LLC, Commerce City, Colorado, or approved equivalent.

Provide one standard Park padlock for each table.

650-2.13 DEPARTMENT FURNISHED PICNIC TABLE. The Department will furnish 19 Picnic Tables to be used for this project. The Department-Furnished Picnic Tables will be located at the Division of Parks Facility at Northern Area State Parks Office, 3700 Airport Way, Fairbanks, AK 99709. The Department-Furnished Materials may be picked up by appointment only.

The Contractor shall notify the Engineer at least 72 hours prior to picking up materials.

650-2.14 ROUND FIREPIT. Round firepit with heat shield shall be the following or approved equivalent:

Manufacturer:	Pilot Rock (R.J. Thomas Manufacturing Co., Inc. Cherokee, Iowa (800) 762-5002 www.pilotrock.com
Product:	Accessible Fire Ring
Model:	FS-30/24/PA
Heat Shield:	HS-F
Plate Steel Thickness (Min.):	3/16 inch

Aggregate Base Course shall conform to Section 703 for Grading D-1.

650-2.15 CONCRETE PARKING BUMPER. Conform to Standard Drawing P-6, Parking Bumper.

650-2.16 BARRIER ROCK. Barrier rocks shall be 3 to 5 feet in diameter when measured in every direction.

650-2.17 CAMPSITE MARKER. Conform to drawings.

650-2.18 FEE PAYMENT STATION. Conform to Standard Drawing S-9, Fee Payment Station. The fee payment station sign panel and pipe safe will be fabricated and installed by others. Column bases shall be corrosion resistant and embedded in wet concrete for subsequent connection of wood post to concrete footing. Size column base to dimension of post. Rough cut posts shall have commercially fabricated column bases inset a maximum of 1/2 inch. If commercial bases cannot meet the 1/2 inch requirement, custom fabricate full dimension column bases. Stirrup shall be provided with holes for two galvanized bolts with washers. Similar to Simpson CB88R.

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

CONSTRUCTION REQUIREMENTS

650-3.01 GENERAL. The location shown on the drawings for park facilities placement are approximate. The Engineer will field locate park facilities at the time of construction.

650-3.02 EXCAVATION AND BACKFILL. Conform to the requirements of Section 204 and the details on the plans.

650-3.03 CONCRETE. Conform to the requirements of Section 501 and the details on the plans.

650-3.04 STRUCTURAL STEEL. Welding to conform to American Welding Society D1.1.

650-3.05 WOOD. Competent carpenters shall be employed and all framing shall be true and exact. Unless otherwise specified, nails and spikes shall be hand driven with just sufficient force to set the heads flush with the surface of wood. Power nail guns may be used if the pressure may be adjusted to drive the nail flush with the face of the lumber. All non-removable shipping, storage, weathering and erection marks on fabricated lumber shall be hidden from view in the completed work. Use of damaged lumber shall not be allowed. Store on-site lumber above the ground and protected from damage and weathering.

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

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

650-3.06 PAINT. Deliver in sealed containers with labels legible and intact. Remove dirt, grease, oil and other construction debris prior to painting. Ensure that surfaces to be painted are even, smooth, sound, clean, dry, and free from defects affecting proper application. Metal surfaces to receive paint shall be corrosion free. Apply per manufacturer's recommendations. Apply paint material evenly without runs, sags, or other defects. Work each coat into the material being coated at an average rate of coverage recommended by the manufacturer. Cover surfaces completely to provide uniform color and appearance. Remove all paint, stain, or other finish material where it has spilled or spattered.

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

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

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

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

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

e. Concrete and Masonry. Seal exposed surfaces.

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

2. Picnic Table.
   a. Recycled Plastic Lumber. No Finish Required
   b. Metal. Galvanized, No Finish Required

3. Round Firepit.
   a. Metal. Manufacturer applied high temperature, non-toxic black enamel paint.

4. Concrete Parking Bumper.
   a. Concrete. Sealer

5. Campsite Marker.
   a. Wood. Semi-Transparent Oil Stain

6. Fee Payment Station.
   a. Other Wood. Semi-Transparent Oil Stain
   b. Metal. Primer and Enamel Paint

650-3.07 PICNIC TABLE. Construct in accordance with Standard Drawing C-1, Picnic Table. Bury anchor a minimum of 2-1/2 feet. Wrap anchor cable around table braces at center of table and connect back to cable with padlock.

650-3.08 DEPARTMENT FURNISHED PICNIC TABLE. Install in accordance with Standard Drawing C-1, Picnic Table. Bury anchor a minimum of 2-1/2 feet. Wrap anchor cable around table braces at center of table and connect back to cable with padlock.

650-3.09 ROUND FIREPIT. Install per manufacturer's recommendations. Firepits shall be anchored to the ground by factory supplied 1/2-inch diameter "U" shaped steel rods (pin anchors) embedded into 15-inch deep concrete footings.

Place 9 inch compacted depth of aggregate base course inside the firepits.

650-3.10 CONCRETE PARKING BUMPER. Construct in accordance with Standard Drawing P-6, Concrete Parking Bumper.

650-3.11 BARRIER ROCK. Place barrier rocks 4 feet apart, edge to edge, with approximately 20 percent of the height of each rock set below ground level. When finish surface is pavement or concrete, place barrier rocks prior to paving or pouring operations. Cutting pavement to place barrier rocks and then patching is not acceptable.

650-3.12 CAMPSITE MARKER. Construct in accordance with the Plans.

650-3.13 FEE PAYMENT STATION. Construct in accordance with Standard Drawing S-9, Fee Payment Station.

650-4.01 METHOD OF MEASUREMENT. Park facilities with the unit measure each will be measured by the actual number of facilities completed and accepted.

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

650-5.01 BASIS OF PAYMENT. The accepted quantity of park facilities will be paid for at the contract unit price per unit of measurement for the type specified completed in place, and listed below excluding all clearing, grubbing, topsoil and crushed aggregate base course, which shall be paid for separately at contract unit prices.

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

Payment will be made under:

Pay Item	Pay Unit
650(1) Picnic Table	Each
650(1A) Department Furnished Picnic Table	Each
650(4) Round Firepit	Each
650(17) Concrete Parking Bumper	Each
650(21) Barrier Rock	Each
650(32) Fee Payment Station	Each
650(42) Campsite Marker	Each

(05/02/11)PARKS-Special Provision

Add the following Section:

SECTION 654

VAULTED TOILET

654-1.01 DESCRIPTION. Provide all labor, materials, and equipment and services necessary to furnish and install accessible pre-manufactured concrete toilet and vaults finished and complete with all accessories and incorporating Sweet Smelling Technology.

Concrete Vaulted Toilet shall be the following or approved equivalent:

Manufacturer: CXT Precast Products
Style: Rocky Mountain with Chase Area (Alaska State Parks Model)
Roof Texture & Color: Simulated Cedar Shakes in Granite Rock
Exterior Wall Texture & Color: Upper – Horizontal Lap in Sand Beige
Lower – Flagstone Simulated Rock Pattern in Mountain Blend
Other:
- Marine Package
- 654-2.05 Signs shall comply
- Deadbolt shall be Schlage Model B660P
- Exterior Doors and Trim shall be brown in color.
- Supply padlocks for each toilet paper roll and manhole cover, complying with 654-2.06.

The Contractor shall obtain the necessary City and/or Borough permits for the construction and installation of the concrete toilet.

If Concrete Vaulted Toilet is the approved equivalent, the toilet shall comply with the remainder of this section.

654-1.02 CODES AND STANDARDS.

ACI 211.1 - Standard Practice for selecting Proportions for Normal, Heavyweight and Mass Concrete.
ADA - Americans with Disabilities Act
ASTM C 33 - Specification for Concrete Aggregates
ASTM C 39 - Test Method for Compressive Strength of Cylindrical Concrete Specimens
WAQTC FOP for AASHTO T119 - Test Method for Slump of Hydraulic Cement Concrete
ASTM C 150 - Specification for Portland Cement
ASTM C 192 - Method of Making and Curing Test Specimens in the Laboratory
PCI MINL 116 - Quality Control for Plants and Production of Precast Prestressed Concrete Products

654-1.03 DESIGN AND PERMIT REQUIREMENTS. Units must meet or exceed "Sweet Smelling Technology" (SST) as developed by Briar Cook of the U.S. Forest Service. Vault Clean-outs must be lockable and outside the toilet enclosure.

Units shall also meet 120mph wind loading, 250 lbs/sq.ft. snow loading and seismic zone 4 earthquake requirements in accordance with the current version of the IBC.

The Contractor shall obtain the necessary City and/or Borough permits for the construction and installation of the concrete toilet.

654-1.04 SUBMITTALS. Submittals are required for the following:

Shop Drawings: Shop drawings must be stamped by a professional engineer and shall include plans, elevations and a section of the pre-manufactured units. Include dimensions for sizes and locations of walls, floor, roof, vaults, vent pipes, wall vents, doors, windows, signs and accessories. Indicate reinforcement types, sizes and spacing. Provide details showing anchors or method of attachment for doors, windows, vents, vent risers and accessories.

Product Data: Provide manufacturer's product data for all doors, frames, hardware, toilet accessories, signs, manholes, risers and sealants. Submit data on all parts and accessories indicating manufacturer, supplier, model or part number and finish.

Samples: Submit two 8-1/2 inch x 11 inch samples each of the wood texture and simulated shake roof, clearly displaying texture and color for approval by the Engineer.

Quality Control:

Test Reports: Submit concrete test results.

Contract Closeout:

Operations and Maintenance Data: Submit information for repairs, replacement of parts and accessories.

Warranty:

1. Submit Manufacturer's warranty against leakage from the vault for 7 years.
2. Submit Manufacturer's warranty against materials and labor on the building for 1 year.

654-1.05 QUALITY ASSURANCE.

Manufacturer Qualifications:

1. Shall have three years minimum experience producing toilets of similar design.
2. Must be ISO 9001 certified

3. Plant must be PCI certified

Regulatory Requirements: Conform to ADA for accessibility requirements.

654-1.06 DELIVERY, STORAGE, AND HANDLING.

Acceptance at Site: Deliver one pre-fabricated concrete double vaulted outhouse to the Project site. The Contractor shall be responsible for repairing and/or replacing any damaged work or products.

Storage and Protection: Store all pre-fabricated items in the designated location at the Project Site. The items shall be protected from any damage. Do not stack or lean items against trees, equipment, or each another.

Handling: Protect all pick points or lifting lug locations with wooden or plastic plugs, metal covers, or their equivalent to protect the threads and exclude foreign matter or ice while in storage or in transit. Pre-fabricated toilet units shall only be lifted with cables or nylon chokers or straps and spreader bars in accordance with the manufacturers printed lifting/rigging instructions. Do not lift without spreader bars.

MATERIALS

654-2.01 GENERAL. All material shall be new and conform to the manufacturer's plans. Toilet must meet ADA requirements.

654-2.02 MANUFACTURERS.

Toilets and Vaults: CXT Incorporated, Precast Products Division, 3808 N. Sullivan Road, Building 7 Spokane WA. 99216. Phone: (800) 696-5766 and Fax: (509) 928-8270 or approved equal.

Vault Liner:	"Lustran ABS" by Bayer Corporation– Polymers Division or approved equal
Vents/Louvers:	Anemostat or approved equal
Doors and Frames:	Amweld, Ceco, Curries, Fenestra, Republic, Steelcraft

Hardware:

Hinges (Butts):	Lawrence; McKiney; Hager
Locks/Pull Plates /Strikes:	IlcoUnican; Hager Companies; Schlage; Best
Closers:	LCN; Norton; Sargent
Door Stops:	Hager Companies; Glynn Johnson; Rixson; Quality
Door Silencers:	Quality; Glynn Johnson; Ives

Weatherstripping:	Pemko; Reese; Zero; 3M

Paint: Dunn Edwards, Dupont, Fuller O'Brien, Preservative Paint, Sherwin Williams, United Coatings.

Accessories:

Toilet Risers:	Romtec, Inc., Roseburg, Oregon or approved equal
Grab Bars:	ASI, Bobrick, Mckinney/Parker, Seachrome
Toilet Paper Dispenser:	Romtec, Inc., Aslin or approved equal
Double Coat Hook:	TSM, ASI, Bobrick, Ives
Signs:	Screen Tek, Inc.; Letters Unlimited or approved equal

654-2.03 MANUFACTURED UNITS: Pre-fabricated concrete toilet structure shall be provided by the Contractor. The Contractor shall provide the necessary equipment and materials to install the vaulted structures.

Toilets: Vault toilets shall be “Rocky Mountain with Chase Area” by CXT Precast Products or approved equal meeting these specifications. Vaults shall be accessible. Texture shall “horizontal lap with simulated stone” on walls and “cedar shake” texture on roof as produced by CXT Precast Products or approved equal. Provide colors for board, stone, and roof.

Vaults: One piece, 4 inch thick steel reinforced concrete, 1,000 gallon capacity each with bottoms sloped to cleanout and with one piece vault liner cast in place.

Vault Liners: One sheet black ABS/752 virgin plastic. Initial sheet thickness shall be a minimum of 0.375 inch with a final stamped thickness of a minimum of 0.060 inch. The vault liner shall have molded dovetail embeds to attach the liner to the concrete walls of the vault. The vault liner shall have two J-rails to attach the liner to the bottom of the vault. Vaults with the ABS liner shall be warranted against leads for a period of seven years into or out of the vault itself.

Concrete - General: The concrete mix design shall be designed to ACI 211.1 to produce concrete of good workability.

Concrete shall contain a minimum of 610 pounds of cement per cubic yard. Cement shall be a low alkali type I or III conforming to ASTM C150. Coarse aggregates used in the concrete mix design shall conform to ASTM C33 with the designated size of coarse aggregate #67. Minimum water/cement ratio shall not exceed 0.45. Slump shall not exceed 4 inches.

Air-entraining admixtures shall not be used without approval of the Engineer.

Colored Concrete: The following items shall contain colored concrete:

Toilet building roof panels; Building walls; Screen panels

Color additives will conform to ASTM C979.

The same brand and type of color additive shall be used throughout the manufacturing process. All ingredients shall be weighed and the mixing operation shall be adequate to ensure uniform dispersion of the color. Wall panel color and roof color shall be Sand Beige and Granite Rock, respectively, as identified by CXT Precast Products, Inc. or approved equivalent.

Cold Weather Concrete: Concrete shall not be placed if ambient temperature is expected to be below 35° F. during the curing period unless heat is readily available to maintain the surface temperature of the concrete to at least 45° F. Materials containing frost or lumps of frozen materials shall not be used.

Hot Weather Concrete: The temperature of the concrete shall not exceed 80° F at the time of placement and when the ambient reaches 90° F, the concrete shall be protected with moist covering.

Concrete Reinforcement: All reinforcing steel will conform to ASTM A615. All welded wire fabric will conform to ASTM A185. All reinforcement will be new, free of dirt, oil, paint, grease, loose mill scale and loose or thick rust when placed.

Full lengths of reinforcing steel shall be used when possible. When splices are necessary on long runs, splices shall be alternated from opposite sides of the component for adjacent steel bars. Lap bars #4 or smaller a minimum of 12 inches. Lap bars larger than #4 a minimum of 24 bar diameters.

Steel reinforcement shall be centered in the cross-sectional area of the walls and shall have at least 1 inch of cover on the under surface of the floor and roof. The maximum allowable variation for center to center spacing of reinforcing steel shall be 1/2 inch.

Reinforcing bars shall be bent cold. No bars partially embedded in concrete shall be field bent unless approved by the Engineer.

Sealers and Curing Compounds: Curing compounds, if used, shall be colorless. Weather-proofing sealer for exterior of building shall be a clear water repellent penetrating sealer.

Caulking, Adhesive and Grout: All caulking shall remain flexible and non-sag at temperatures from 50° to 140° Fahrenheit. Interior joints shall be caulked with a paintable

rubber-based caulk. Exterior joints will be caulked with a tripolymer sealant caulk which compliments the exterior color.

Epoxy concrete adhesive will be two-component, rigid, non-sag gel adhesive for bonding to dry or damp surfaces, moisture insensitive. Color shall compliment surrounding concrete as nearly as possible.

Grout shall be water-proof and resistant to alkali and freeze-thaw cycles. It shall be painted to match the color of surrounding concrete as nearly as possible.

Cement base coating shall be formulated with a very fine aggregate system and a built in bonding agent.

Caulking between vault and toilet floor to be 1 inch x 1 inch Butyl tape designed specifically to bond precast concrete to precast concrete

Steel Doors and Frames: Doors shall be 3 feet x 6 feet 8 inches, flush panel type, 1-3/4 inches thick, minimum 18 gauge prime-coated steel panels, minimum 12 gauge internal bracing channels, 14 gauge edge reinforcement, rigid foam plastic core, SDI grade II, model 2. Hinge reinforcement shall be 10 gauge minimum.

Door frames shall be welded type, single rabbet, minimum 16 gauge prime-coated steel, width to suit wall thickness, SDI grade II. Hinge reinforcement shall be 10 gauge minimum.

Doors and door frames shall be reinforced to accept butts, deadlock and strike.

Doors and frames shall be factory treated with a three stage iron phosphate and given one shop coat of synthetic resin, rust-inhibitive alkyd enamel primer.

Hardware: finish shall be BHMA 630 (Satin Stainless Steel)/US32D.

Hinges (Butts): Three per door. Hinges shall be ANSI 156.1, BHMA 5112, full mortise, ball bearing design with a stainless steel non-removable pin, stainless steel, 4-1/2 inches x 4-1/2 inches.

Strikes: Mortised ANSI strikes with strike boxes.

Handle: Pull plate shall be a barrier free round grip pull plate with 2-1/2 inch handle clearance, 3/4 inch diameter by 8 inch long handle, 316 stainless steel with dull finish. Plate shall be 3-1/2 inch x 15 inch and .050 inch thick.

Deadbolt: Heavy duty single cylinder deadbolt with 2-3/4 inch backset, ANSI 156.5 Grade 1, US26D, U.L. Listed. Deadbolt shall be Schlage Model B660P or approved equal. Deadbolt shall be keyed to accept Schlage Series C, No. 56349. Provide two keys per deadbolt.

Trim: Series 1000, Grade 2.

Closers: shall be ANSI 156.4, BHMA C02022, Grade 1, similar to LCN 4041 (5 lb. closing force), heavy duty parallel arm, Cush mount, metal cover or approved equal accepted by the Contracting Officer. Closers shall be equipped with extreme temperature fluid and capable of adjustments for latches, closing speed and back check intensity. Closers shall have a corrosion protective coating on all metal surfaces.

Door Stop: Door stop shall be ANSI 156.16, BHMA LO2252, cast brass; rubber, 1-3/4 inch diameter bumper, convex pad, 1 inch projection, base thickness of 1/8 inch.

Wall Stop: Wall stop shall be ANSI 156.16, BHMA LO2252, brass; rubber, 2-7/16 inch diameter bumper, convex pad, 13/16 inch projection.

Door Silencers: Door silencers shall be BHMA LO3011. Three (3) rubber door silencers shall be provided on latch side of frame.

Door Sweep: Provide door sweep at the bottom of door. Polypropylene pile, adjustable brush type, 1/4 inch x 1-1/2 inches, Pemko 18062 CP or approved equal.

Wall Louvers: Louvers shall be 12 inches x 12 inches, fixed, inverted split Y, non-vision, 18 gauge cold rolled steel with a factory prime coat equal to FDLS series. One in each restroom.

Windows and Frames: Window frames shall be constructed from steel. Window glazing shall be 1/4 inch thick translucent LEXAN polycarbonate with a pebble finish.

Vault Cleanout Covers: Plate for vault cleanout cover shall be 1/4 inch thick, diamond plate steel. Lid shall be hinged and configured so that it can be locked with a padlock. Provide a neoprene gasket around the entire perimeter of lid for an airtight seal.

Paint: All paints and materials shall conform to all Federal specifications. Paints shall not contain more than .06 percent by weight of lead. Color shall be as selected from manufacturer's standard palette by the Engineer.

Types of paints for toilets:

Interior Stain - "Canyon Tone Stain" by United Coatings or approved equal. Stain shall be single-component, water-based, and quick setting. Color shall be white. Inside stain shall be sealed with “Monocryl 50” clear acrylic semi-gloss, water-repellent sealer by United Coatings or approved equal.

Floor Paint - “Armorseal Floor-plex 7100” by The Sherwin-Williams Company or approved equal. Shall be glossy, two

component, water based epoxy floor coating capable of withstanding heavy traffic. Color shall be gray.

Floor Anti-Slip Additive - "SharkGrip" by H&C Beautiful Concrete Protection or approved equal.

Trim Paint - "Direct-To-Metal Enamel" by The Sherwin-Williams Company or approved equal. Enamel shall be a semi-gloss high-build alkyd coating with rust-inhibitive properties. Color shall be white.

Exterior Walls and Roof - Water repellent penetrating stain in the same color as the walls and/or roof followed by a clear acrylic anti-graffiti sealer.

Exterior slab shall be clear sealer

654-2.04 ACCESSORIES:

Toilet Risers: Toilet riser shall be cross-linked polyurethane. Toilet risers shall have a heavy duty seat and lid, and constructed with high-impact polystyrene. Risers shall be mounted at an 18 inch height from floor to top of seat. All mounting materials shall consist of stainless steel hardware.

Grab bars: Grab bars shall be 18 gauge, type 304 stainless steel with 1-1/2 inch clearance. Grab bars shall each be able to withstand 300 pound top loading. Grab bars shall be either two separate bars with supports each end, one 36 inches (914 mm) and the other 42 inches long or a single "L" shaped bar with 3 supports and one leg 54 inches long and the other 36 inches – 42 inches long.

Toilet Paper Dispenser (Two per Toilet Riser): Dispenser shall be constructed of 1/4 inch thick, 304 type stainless steel with a satin finish. Dispenser shall be capable of holding two standard rolls of toilet paper; 18 inch x 2 inch, "restricted" type and have a heavy duty locking feature. Toilet paper dispenser mechanical attachment system shall withstand 300 pound top loading.

Double Coat Hook: Coat hooks shall be constructed of stainless steel and have tamper-proof mounting screws.

Vent Riser: Shall be 12 inch I.D., unpainted, black, polyethylene vent pipe.

654-2.05 SIGNS.

1. General

   Layout details of custom signs not shown shall conform to the Alaska Sign Design Specifications.

Base Material:	Solid color, alloy 6061-T6 aluminum
Base Color:	Brown
Total Thickness:	0.080 inch
Size:	Uniform for all signs, large enough to accommodate text and pictograms, 6 x 9 inches minimum
Edges:	Rounded

2. Raised Character Size and Style: Solid color, metal, character adhered to or integral with base material –

Character Color:	White
Background Color:	Brown
Sign Material:	Reflective sheeting shall be Type II (medium intensity)
Character Thickness:	1/32 inch
Height:	12 inch x 12 inch
Edges:	Square
Character Font:	Helvetica
Character Case:	Upper and lower
Braille:	Grade II
Text:	See Below

PLEASE HELP

Help lower maintenance costs by properly disposing of trash and not placing trash in toilet.

Please close toilet lid

THANK YOU

3. Raised Pictogram Size and Style: Solid color, metal, character adhered to or integral with base material –

Character Color:	White
Background Color:	Brown
Character Thickness:	1/32 inch
Size:	6 inch minimum Square
Edges:	Rounded
Character Font:	International Symbol
Mounting Hardware:	Mechanical, tamper resistant
Braille:	Grade II
Text:	"Toilet"
Pictograms:	Men & Women ("Unisex") and accessibility

654-2.06 PADLOCK. Master Lock No. 1 with 5/16 inch shackle diameter, 15/16 inch vertical clearance, 3/4 inch horizontal clearance, 1-3/4 inch case width, and keyed alike to a key number provided by the Engineer specific to the Park area. Provide two keys with each padlock.

654-2.07 BEDDING. Bedding material for the concrete vaulted toilet shall be aggregate base course, grading D-1, and shall meet all the requirements of Section 301.

FABRICATION AND CONSTRUCTION

654-3.01 SITE WORK. Excavation and backfill shall conform to Subsection 204-3.01 and the details on the plans. Finish ground profile to slope away from the building except for areas that abut adjacent sidewalk or parking areas. Place aggregate base course extending a minimum 1 foot from all sides of the concrete floor at up to the floor finish grade except for areas that abut adjacent sidewalk or parking areas.

654-3.02 MIXING AND DELIVERY OF CONCRETE. Mixing and delivery of concrete will be in accordance with ASTM C94, section 10.6 through 10.9 with the following additions:

1. Aggregate and water will be adjusted to compensate for differences in the saturated surface-dry condition.
2. Concrete will be discharged as soon as possible after mixing is complete. This time will not exceed 30 minutes.

654-3.03 PLACING AND CONSOLIDATING CONCRETE. Concrete will be consolidated by the use of mechanical vibrators. Vibration will be sufficient to accomplish compaction but not to the point that segregation occurs.

654-3.04 FINISHING CONCRETE. Interior floor and exterior slabs will be floated and troweled. A light broom finish will be applied to the exterior slab.

All exterior top portions of the building walls and exterior screen walls will be a board & batt siding texture. The bottom section of the walls will be a field stone textured stone finish.

All exterior surfaces of the roof panels will be cast to simulate a cedar shake roof. The underside of the overhang will have a smooth finish.

654-3.05 CRACKS AND PATCHING. Cracks in concrete components which are judged to affect the structural integrity of the building will be rejected. Small holes, depressions and air voids will be patched with a suitable concrete material. The patch will match the finish and texture of the surrounding surface. Patching will not be allowed on defective areas if the structural integrity of the building is affected.

654-3.06 CURING AND HARDENING CONCRETE. Concrete surfaces will not be allowed to dry out from exposure to hot, dry weather during initial curing period.

654-3.07 STRUCTURAL JOINTS. Wall components will be joined together with two welded plate pairs at each joint. Each weld plate will be 6 inches long and located one pair in the top quarter and one pair in the bottom quarter of the seam. Weld plates will be anchored into the concrete panel and welded together with a continuous weld. The inside seams will be a paintable caulk. The outside seams will use a caulk in a coordinating building color or clear. Walls and roof will be joined with weld plates, 3 inch x 6 inch, at each building corner. The joint between the floor slab and walls will be joined with a grout mixture on the inside, a matched colored caulk on the outside and two weld plates 6 inches long per wall.

654-3.08 PAINTING/STAINING. An appropriate curing time will be allowed before paint is applied to concrete. Some applications may require acid etching. A 30% solution of hydrochloric acid will be used, flushed with water and allowed to thoroughly air dry. Painting will not be done outside in cold, frosty or damp weather. Painting will not be done outside in winter unless the temperature is 50 degrees F. or higher. Painting will not be done in dusty areas.

654-3.09. TESTING. The following tests will be performed on concrete used in the manufacture of toilets. Testing will only be performed by qualified individuals who have been certified ACI Technician Grade 1. Sampling will be in accordance with ASTM C172.

1. The slump of the concrete will be performed on the first batch of concrete in accordance with ASTM C143. This slump will be in the 3-4 inch range. Slump may be increased using chemical admixtures provided that the concrete maintains same or lower water to cement ratio and does not exhibit segregation. Slump will never exceed 9 inches.

2. The air content of the concrete will be checked per ASTM C231 on the first batch of concrete. The air content will be in the range of 5.5% +/- 1%.
3. The compressive strength of the cylinders will be tested to ASTM C39. We will make one (1) cylinder for release, one (1) for 7 days and one (1) for 28 days. The release must be a minimum strength of 2500 psi, the 7-day must be a minimum of 4500 psi and the 28-day must be a minimum of 5000 psi.
4. A copy of all test reports will be available to the customer as soon as 28-day test results are available.

654-3.10 EXCAVATION AND ELEVATION. Excavate for the installation of the toilet vault to a depth that will allow the structure site to be free draining after installation is completed. Allow for a 2 inch leveling course beneath the toilet vault. Stockpile topsoil in a separate pile at sites.

No excavation will be left open more than seven days unless otherwise approved by the Engineer. All excavations left open overnight will be fenced with wire mesh or plastic mesh fence secured to steel posts all around the excavation.

654-3.11 BEDDING, BACKFILL AND COMPACTION. Backfill and compaction shall conform to the requirements of Section 203 and Section 301. Rocks larger than six inches in maximum dimension shall not be placed within six inches of the exterior vault walls.

654-3.12 FINISH GRADING. Final grade shall be flush with the top of the front slab. Grade backfill away from the structure at maximum slope of five percent unless otherwise approved by the Engineer.

654-3.13 VAULT TOILET RISER. Polyurethane caulk will be applied between toilet riser flange and concrete floor before the toilet riser is installed.

654-3.14 EXHAUST PIPE INSTALLATION. After exhaust pipe is installed, seal around pipe at top and underside of roof with polyurethane caulk. Seal around pipe at top of floor slab will be accomplished by using polyurethane caulk.

654-3.15 SIGNS. Position signs level, 60 inches above finished floor (AFF) to the center and on the deadbolt side of the door.

654-3.16 GRAB BARS. Mount grab bars at 33-36 inches above finished floor.

654-3.17 TOILET PAPER DISPENSERS. Mount toilet paper dispensers at 19 inches minimum above finished floor to center for accessible units and 16 inches minimum above finished floor to center for standard units. Mount toilet paper dispensers at 36 inches maximum from rear wall.

654-3.18 COAT HOOKS. Mount coat hooks at 54 inches maximum above finished floor in accessible units.

654-4.01 METHOD OF MEASUREMENT. Measurement will be the actual number of pre-manufactured vaulted toilets completed and accepted. Excavation, embankment, and leveling course required for Concrete Vaulted Toilet construction are considered subsidiary to this item and will not be measured separately for payment.

Work required in preparing and acquiring the necessary City and Borough permits for the construction and installation of the concrete vaulted toilet and paying the applicable fees will be considered subsidiary to 654(2) Concrete Vaulted Toilet.

654-5.01 BASIS OF PAYMENT. The accepted quantity of pre-manufactured vaulted toilets will be paid for the contract unit price for each Concrete Vaulted Toilet completed and in conformance with the plans and specifications.

Payment will be made under:

Pay Item	Pay Unit
654(1) Single Concrete Vaulted Toilet	Each

(03/04/10)PARKS-Special Provision

Add the following Section:

SECTION 690

EROSION, SEDIMENT AND POLLUTION CONTROL - MEASURES

690-1.01 DESCRIPTION. Furnish, install, and maintain measures, countermeasures and associated materials as part of BMP(s) to prevent, control and contain erosion, erosion materials, sediments and pollution contaminates, on and off project site.

Measures:

- Permanent Measures – include, the materials, hardware, equipment, and labor required for installation and maintenance of erosion, sediment, and pollution control material(s).
- Temporary Measures - include, in addition to the requirements of Permanent Measures, removal and disposal of the erosion, sediment, and pollution control material(s).

Related Specifications:

Erosion, Sediment and Pollution Control	Section 641
Silt Fence	Section 633
Seeding	Section 618
Soil Stabilization	Section 619

690-2.01 MATERIALS.

Erosion Sediment and Pollution Control – Materials	Section 744

Others as specified in related Sections.

CONSTRUCTION REQUIREMENTS

690-3.01 GENERAL. BMP(s) may include individual or a combination of measures and countermeasures, including but not limited to temporary seeding, mulch, matting, staples, stabilizing emulsions, blankets and mats, soil binders, non-erodible cover, dustless sweeping, dust palliatives. Refer to Subsection 690-1.01, Related Specifications, for measures not included here.

690-3.02 MATERIAL STORAGE AND PROTECTION. General: Store materials elevated off the ground and covered protecting them from construction and or damage from the environment and as follows:

Fiber Rolls. Additionally, protect fiber rolls from: precipitation, extended ultraviolet radiant including sunlight, chemicals that are strong acids or other, flames including welding sparks, excess temperatures, and any other environmental conditions that may damage the physical property value of the rolls.

690-3.03 FABRICATION.

Sandbags: Sand bags shall measure 15 inches by 30 inches. Use prayer type seams with a minimum of two rows of stitching using a Federal Stitch Type 401 Chain Stitch. Place approximately 1.0 cubic foot of Select Material, Type B, in each sandbag sack. Close the open end of the sandbag, after filling, with 2 cinch ties or as recommended by the manufacturer of the sandbag material.

690-3.04 PLACEMENT AND INSTALLATION. Place and install where shown and detailed in the Plans and Specifications including Section 641, and as recommended by the manufacturer, directed by the Engineer and as follows:

Temporary Seeding. Annual Ryegrass per Subsection 724-2.02, Table 724-1. Apply at a rate of 1/2 lb/1000 sq. ft., minimum, on level ground to a maximum of 1 1/2 lb/1000 sq. ft., maximum, on sloping ground and highly erodible soils. Confirm application of temporary seeding with the Engineer.

Prepare the surface to be seeded to reduce erosion potential and to facilitate germination and growth of vegetation cover. Maintain seeded areas. Refer to Section 620 for further surface/topsoil preparation requirements.

Reseed where water quality standards are being exceeded as a result of insufficient vegetative cover. Review with Engineer prior to reseeding.

Refer to Section 618 for further information.

690-3.05 MAINTENANCE. Maintain the integrity of the erosion, sediment and pollution control measures for the duration of the project. Inspect as required by the APDES CGP and SWPPP and correct any deficiencies immediately. Remove and dispose of temporary measures including trapped sediment contaminants off project at approved locations. Materials manufactured as biodegradable may be left in place when approved by the Engineer.

690-4.01 METHOD OF MEASUREMENT. Section 109 and as follows:

Fiber Rolls: By length, measured along the centerline of the fiber roll, complete in place.

Manufactured Inlet Protection Systems: By each, complete in place.

Sandbag Inlet Sediment Trap: By each, complete in place.

Silt Fence: Section 633.

Seeding: Section 618.

Stabilization: Section 619.

SECTION 726

TOPSOIL

726-2.01 TOPSOIL. Replace Item No. 1 with the following:

Reasonably free from roots, clods, hard clay, tall grass, brush, sticks, stubble or other litter, and be free-draining and non-toxic. Must be free of noxious weeds or invasive material.

726-2.01 TOPSOIL. Replace Item No. 3 with the following:

3. Grading Requirements:

TABLE 726-1

TOPSOIL REQUIREMENTS

REQUIREMENT	CLASS B
Sieve Designation	Percent Passing by Weight
3 in	100
1/2 in	-
No. 4	75-100
No.16	50-95
No. 200	20-80
Organic Content*	5% - 40%
Limestone	-

*Determined by loss on ignition of oven dried sample in accordance with ALASKA FOP for AASHTO T 267

(01/01/03)PARKS-Special Provision

Add the following Section:

SECTION 744

EROSION, SEDIMENT, AND POLLUTION CONTROL - MATERIAL

744-2.01 MATERIAL.

Fiber Roll: (commonly called straw wattle)

a. Comprised of UV-degradable plastic netting or 100 percent biodegradable material.
b. Filled with straw, flax, rice, coconut fiber material or composted material.
c. Staking shall be made of 100 percent biodegradable materials.

Provide the Engineer certification stating the name of the manufacturer, product name, style number, chemical composition of the fiber, netting and certification of the weed-free status from the manufacturer. Furnish a sample to the Engineer seven days before the scheduled installation.

Manufactured Inlet Protection System:

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

Sand Bag Inlet Sediment Trap:

a. Sandbag sack fabric shall be a nonwoven, needle punched design meeting the following requirements:

Grab Tensile Strength	ASTM D 4632	200 pounds (min.)
Grab Elongation	ASTM D 4632	15 – 70%
Mullen Burst Strength	ASTM D 3786	400 psi. (min.)
Trapezoidal Tear Strength	ASTM D 4533	95 lbs. (min.)
Apparent Opening Size	ASTM D 4751	No. 30 U.S. STD sieve (max)
Permittivity	ASTM D 4491	0.01 sec-1 (min.)
Ultraviolet Light Stability, Retained Strength	ASTM D 4355	90%
Puncture Strength	ASTM D 4833	120 lbs. (min.)

   These requirements are for Minimum Average Roll Values (MARV) verified in accordance with ASTM D 4759.

b. Seam Thread:
   Similar durability to the sandbag sack fabric.
c. Sandbag Fill Material:
   Select Material Type B 703-2.07.

d. Cinch Ties: Plastic ties or equivalent tie recommended by the sandbag manufacturer.

(02/23/09) CR744-Special Provision

APPENDIX A
PERMITS

PERMIT DESCRIPTION	ISSUE DATE	EXPIRE DATE
Fairbanks North Star Borough Floodplain Development Permit	**12/27/2017**	**N/A**
ADEC Approval to Construct Toilet	**12/13/2017**	**N/A**
SHPO No Historic Properties Determination	**06/12/2017**	**N/A**

FNSB FLOODPLAIN DEVELOPMENT PERMIT

Permit Number: FP 2018-0023

Requirements for this permit:

No person shall alter, relocate or obstruct a watercourse within a flood hazard area such that the ability of that watercourse to carry the base flood is diminished.

If the alteration is located in a regulatory floodway; certification must be provided by a registered professional statement demonstrating that such encroachments will not result in any increase in flood levels.

Issued To:
Name: STATE OF ALASKA DEPARTMENT OF NATURAL RESOURCES
Mailing Address: 3700 AIRPORT WAY
City/State/Zip FAIRBANKS AK 99709

Issued By: Angela Parker, AICP, CFM (Floodplain Administrator) Date: 12/27/2017 BFE: 532' to 546'

Description of proposed work: Public recreation & river access
Road improvements, install concrete parking bumpers, refurbish campsites, reclaim an entrance road, install culverts, replace one vaulted toilet. May also include excavation and fill activities

Specific Standards:

On-site wastewater disposal systems (vaulted toliet) shall be designed to minimize infiltration of flood waters. All mechanical and electrical devices subject to water damage elevated at or above BFE. Improvements located below BFE shall be constructed with materials resistant to flood damage.

Engineer Certification received.
BFE for Olnes Pond ranges from 532' to 541'; BFE for Whitefish Campground ranges from 542' to 550'.
See attached map for details.

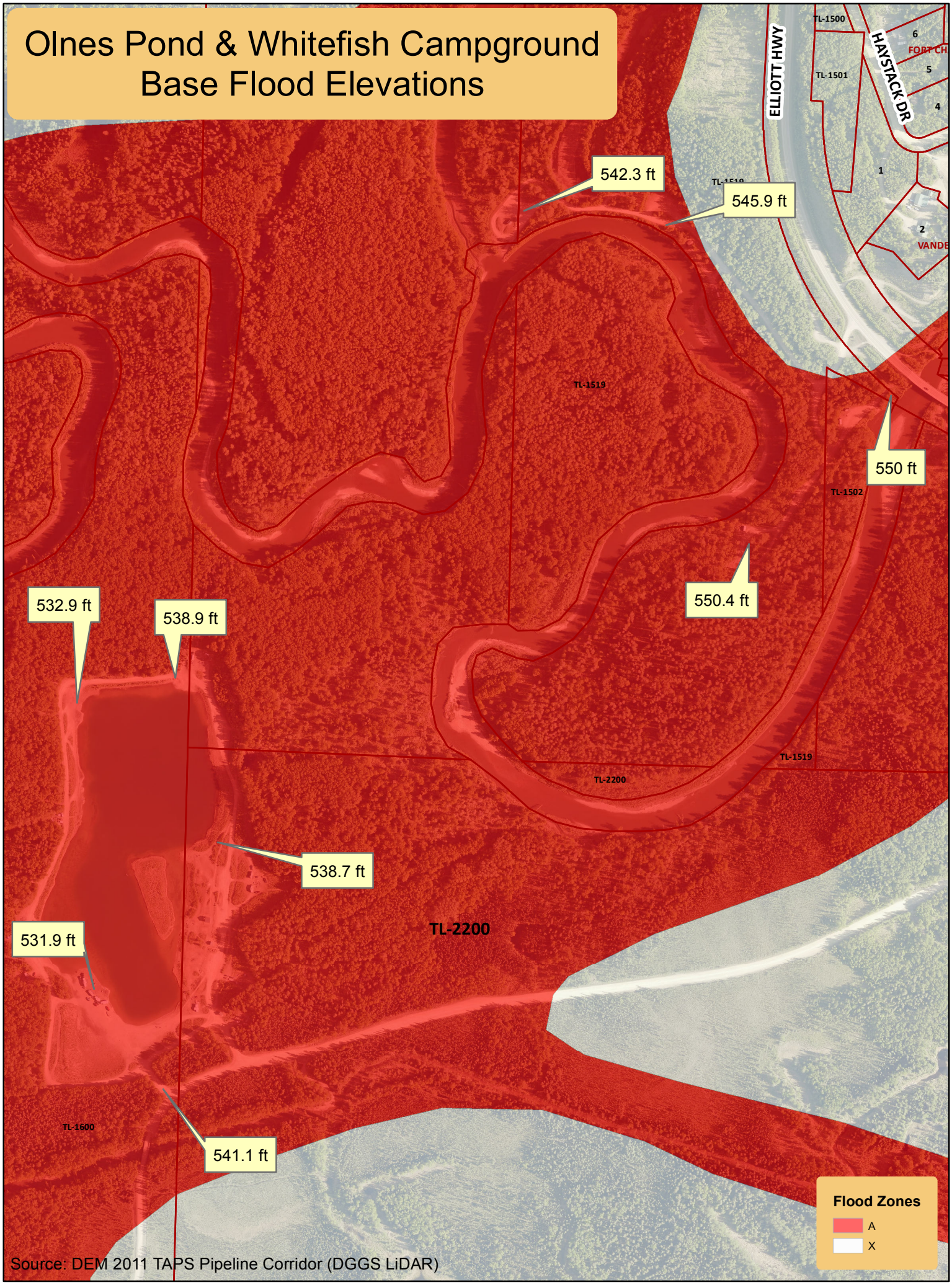
Parcel(s)

0209708 TL-1600 SEC 16 T3N-R1W
0209724 TL-2200 SEC 22 T3N-R1W
0369233 TL-1519 SEC 15 T3N-R1W
0209538 TL-1502 SEC 15 T3N-R1W

Project Address:

Lower Chatanika State Recreation Area

NOTE:
This permit authorizes development in the Special Flood Hazard Area described above.
A Certificate of Compliance shall be applied for within 60 days after obtaining the elevation certificate.
The holder of this permit is required to comply with all other applicable laws, including city, borough, state and federal laws.


Olnes Pond & Whitefish Campground
Base Flood Elevations
ELLIOTT HWY
HAYSTACK DR
TL-1500
TL-1501
TL-1519
TL-1502
TL-2200
TL-1600
542.3 ft
545.9 ft
550 ft
550.4 ft
532.9 ft
538.9 ft
538.7 ft
531.9 ft
541.1 ft
Flood Zones
A
X
Source: DEM 2011 TAPS Pipeline Corridor (DGGS LiDAR)

T 6-12-17 3130-2R DPOR

THE STATE of ALASKA
GOVERNOR BILL WALKER

Department of Natural Resources
DIVISION OF PARKS AND OUTDOOR RECREATION
DESIGN AND CONSTRUCTION
550 West 7th Avenue, Suite 1340
Anchorage, AK 99501-3565
Main: 907.269.8731
Fax: 907.269.8917

June 8, 2017

Re: Lower Chatanika River SRA Facility Improvements Consultation

Ms. Judith Bittner
State Historic Preservation Officer
Alaska Office of History and Archaeology
550 W. 7th Avenue, Suite 1310
Anchorage, AK 99501-3565

RECEIVED
JUN 08 2017
OHA

Dear Ms. Bittner:

The Alaska Department of Natural Resources Division of Parks and Outdoor Recreation Design and Construction (DNR-DPOR D&C) is proposing to construct facility improvements at the Lower Chatanika River Special State Recreation Area (SRA) (Sheet 1). Two locations will be affected by this project: Whitefish Campground (Section 15, T3N, R1W, F.M., USGS Quad Livengood A-2) and Olnes Pond Campground (Sections 15, 16, 21, and 22, T3N, R1W, F.M., USGS Quad Livengood A-2) (Sheet 2).

The Area of Potential Effect (APE) would include each campground facility (Sheets 3 and 4). This project is intended to improve the existing facility within the existing disturbed footprint. However, minor impacts to immediately adjacent lands may potentially occur as a result of construction activities. Typical improvements include installing parking bumpers, fire rings, picnic tables, and campsite markers (Sheets 3 and 4). Roadways will be resurfaced and graded and vegetation will be cleared back from the roadway. Olnes Pond Campground will also include installing signs, barrier rocks, and culverts in areas subject to flooding (Sheet 4). ADNR-DPOR D&C would like to coordinate with the State Historic and Preservation Office to ensure any cultural impacts are avoided, minimized, and handled appropriately if they are encountered.

Please respond to me at the address above, by telephone at 907-269-8506, or by e-mail at chester.fehrmann@alaska.gov regarding any historic property interest, impacts, or other necessary coordination.

Sincerely,

Chet Fehrmann
Environmental Impact Analyst
Alaska State Parks

MSJ No Historic Properties Affected
Alaska State Historic Preservation Officer
Date: 6-12-17 File No.: 3130-2R DPOR 2017-00688
Please review: 36 CFR 800.13 / A.S. 41.35.070(d)

Enclosures: Sheet 1: Lower Chatanika SRA Vicinity Map
Sheet 2: Campground Location Map
Sheet 3: Whitefish Campground Site Plan
Sheet 4: Olnes Pond Site Plan

THE STATE of ALASKA
GOVERNOR BILL WALKER

Department of Environmental Conservation

DIVISION OF WATER
Engineering Support and Plan Review

610 University Avenue
Fairbanks, Alaska 99709
Main: 907.451.2177
Fax: 907.451.2188
www.dec.alaska.gov

ADEC File No.: 180.45.013
Plan Tracking No.: 27439

December 13, 2017

Luke Randall, P.E.
ADNR Division of Parks
luke.randall@alaska.gov

RE: Lower Chatanika River State Recreation Site
Whitefish Campground and Boat Launch
1,000 Gallon Vaulted Toilet
Approval to Construct

Mr. Randall,

On November 27, 2017, the Alaska Department of Environmental Conservation (ADEC or Department) received a submittal requesting construction approval for the above referenced project located in the Lower Chatanika River State Recreation Site. The information was reviewed in accordance with Wastewater Disposal Regulations 18 AAC 72 and **construction approval is granted**. Enclosed is the Construction and Operation Certificate with the Approval to Construct section signed.

Project Description

The approved project consists of installing a 1,000 gallon concrete holding tank as a single vaulted toilet at the Whitefish Campground. The vaulted toilet will have the Rocky Mountain style structure manufactured by CXT Inc. The holding tank will not be equipped with a high water alarm. The Northern area Division of Parks and Outdoor Recreation staff will regularly monitor and service the vaulted toilet to ensure no overflow or leaks. The tank will be pumped when it is approximately 75% full and contents disposed at an approved wastewater facility.

Approval to Operate Requirements

This construction approval includes a 90 day interim approval to operate provided that construction substantially complied with the approved design drawings. In order to receive final operational approval, please submit the following information within 60 days of the completion of this project:

1. Written request for operational approval that includes a statement regarding any changes made during construction
2. Record drawings prepared (signed and dated) by the engineer responsible for observing the construction of this project (The Department prefers drawings that are no larger than 11" x 17".)

3. Certification of Construction form complete with signatures from the Owner, Construction Contractor, and Engineer (A copy of this form may be downloaded and printed from the Department of Environmental Conservation website http://dec.alaska.gov/water/wwdp/onsite/pdf/construction.pdf or a copy will be provided upon request.)

If the approval to operate requirements cannot be met within 90 days of construction completion, an extension of the interim approval to operate must be requested at least 30 days in advance.

Disclaimers and Appeals Process

Approval of submitted plans is not approval of omissions or oversights by this office or noncompliance with any applicable regulation. The Department's construction approval does not guarantee correctness or the functionality of the design, or waive the owner's responsibility for continued compliance with state regulations. Deviations from approved plans which affect capacity, flow, pressure, operation, compliance, or materials of major system components must be approved by this Department prior to their construction or implementation.

This approval is valid for two years from the date of this letter. If the applicant fails to construct, alter, install, or modify the system, the approval is void and plans must be resubmitted for department review and approval according to 18 AAC 72.200.

This approval is contingent upon your receipt of any other state, federal, or local authorizations which are required for your project. You are required to obtain all other necessary authorizations before proceeding with your project. This approval does not imply the granting of additional authorizations nor obligate any state, federal, or local regulatory body to grant required authorizations.

Any person who disagrees with this decision may request an adjudicatory hearing in accordance with 18 AAC 15.195 - 18 AAC 15.340 or an informal review in accordance with 18 AAC 15.185. **Informal review requests** must be delivered to the Division of Water Director, 410 Willoughby Avenue, Suite 303, Juneau, Alaska 99811, within 15 days of this decision. **Adjudicatory hearing requests** must be delivered to the Commissioner of the Department of Environmental Conservation, 555 Cordova Street, Anchorage, AK 99501, within 30 days of this decision. If a hearing is not requested within 30 days, the right to appeal is waived. More information on the Department's administrative appeals process can be found at http://www.dec.state.ak.us/commish/ReviewGuidance.htm.

If you have questions please contact me at 907-451-2177 or by e-mail at tonya.bear@alaska.gov.

Sincerely,

Tonya Bear, P.E.
Engineer I

Enclosures: Construction and Operation Certificate

cc: Brooks Ludwig, ADNR Parks, brooks.ludwig@alaska.gov

STATE OF ALASKA
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
CONSTRUCTION AND OPERATION CERTIFICATE
FOR
DOMESTIC WASTEWATER DISPOSAL SYSTEMS

A. APPROVAL TO CONSTRUCT

Plans for the construction or modification of the **Whitefish Campground vaulted toilet (1,000 gallon concrete holding tank)** domestic wastewater system, located at **Lower Chatanika River SRS, Alaska**, submitted in accordance with 18 AAC 72.200 through 18 AAC 72.235 by **Luke Randall, P.E.** have been reviewed and are

☐ **approved as submitted** ☐ **conditionally approved (see attached conditions)**

Tonya Bear, P.E.	Engineer I	12/13/2017
(Reviewing Engineer)	(Title)	(Date of Approval)

If applicant fails to construct, alter, install, or modify the system within two years of the date of approval to construct, approval is void, and plans must be resubmitted for Department review and approval.

B. APPROVED CHANGE ORDERS

Change (contract order number or descriptive reference)

(Reviewing Engineer)	(Title)	(Date of Approval)

C. APPROVAL TO OPERATE

The **"Interim Approval to Operate"** or **"Final Approval to Operate"** section must be completed and signed by the Department to continue to use this system beyond 90 days following the construction completion date.

Interim Approval to Operate:

The construction of the above referenced domestic wastewater disposal system was completed on _____. The system is hereby granted an extension of the ***INTERIM APPROVAL TO OPERATE*** until _____ date. It is illegal to operate the domestic wastewater disposal system beyond this date without **Final Approval to Operate** from the Department.

(Reviewing Engineer)	(Title)	(Date of Approval)

Final Approval to Operate:

Record drawings and other documents submitted to the Department, or an inspection by the Department, has confirmed that the domestic wastewater disposal system was constructed in substantial conformance with the approved plans. The system is hereby granted ***FINAL APPROVAL TO OPERATE***.

(Reviewing Engineer)	(Title)	(Date of Approval)

APPENDIX B
SURVEY REQUIREMENTS

1. Alaska Construction Surveying Requirements (US Customary Units)

2. State of Alaska Department of Natural Resources Division of Parks and Outdoor Recreation – As-Built Survey Instructions

Alaska Department of Transportation and Public Facilities

Alaska Construction Surveying Requirements (US Customary Units)

Alaska Construction Surveying Requirements (US Customary Units)

Table of Contents

1. Survey accuracy requirements

Third order survey

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

Table 1—Survey accuracy requirements (in feet)

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

* Third order survey
**Right angle prism or transit angles from center line
*** Use blue tops for top of base course and red tops for the bottom of base course.

1. Survey frequency requirements

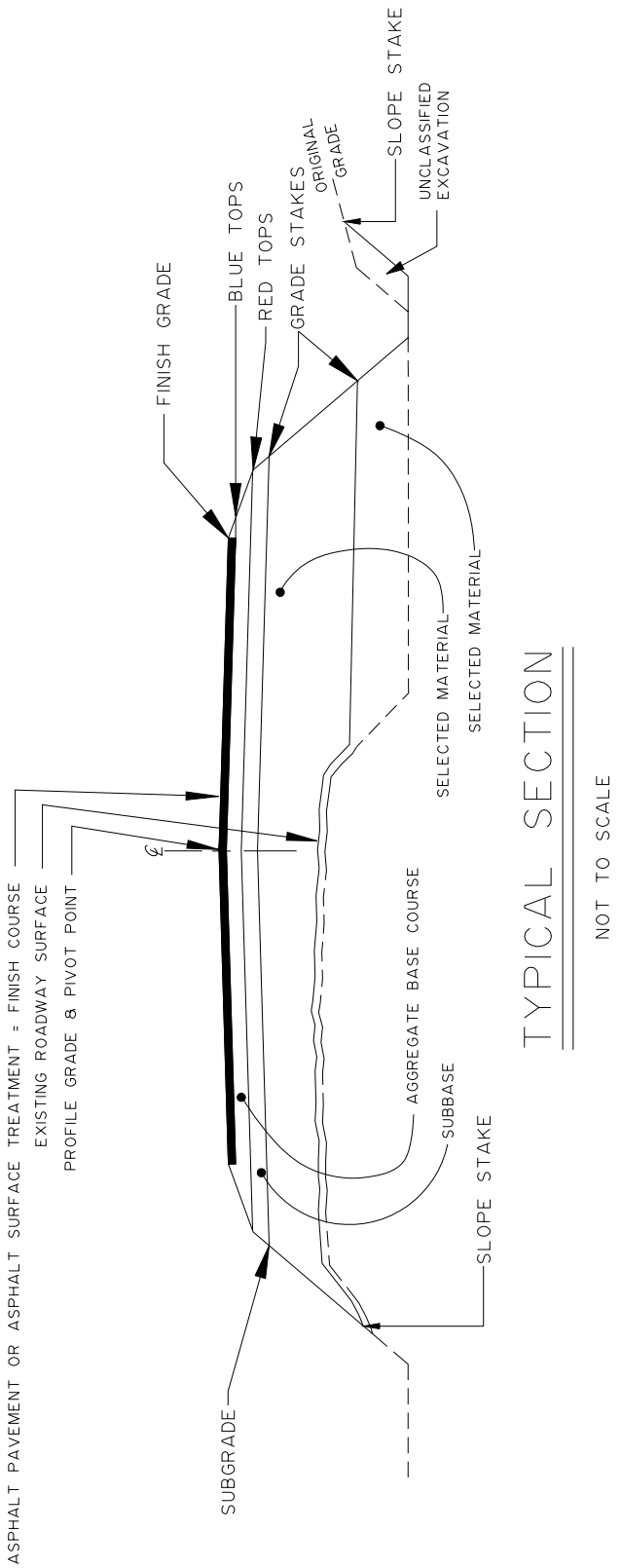
Table 2—Survey frequency requirements (in feet)

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

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

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

2. Typical Section Drawing



3. Survey point materials requirements

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

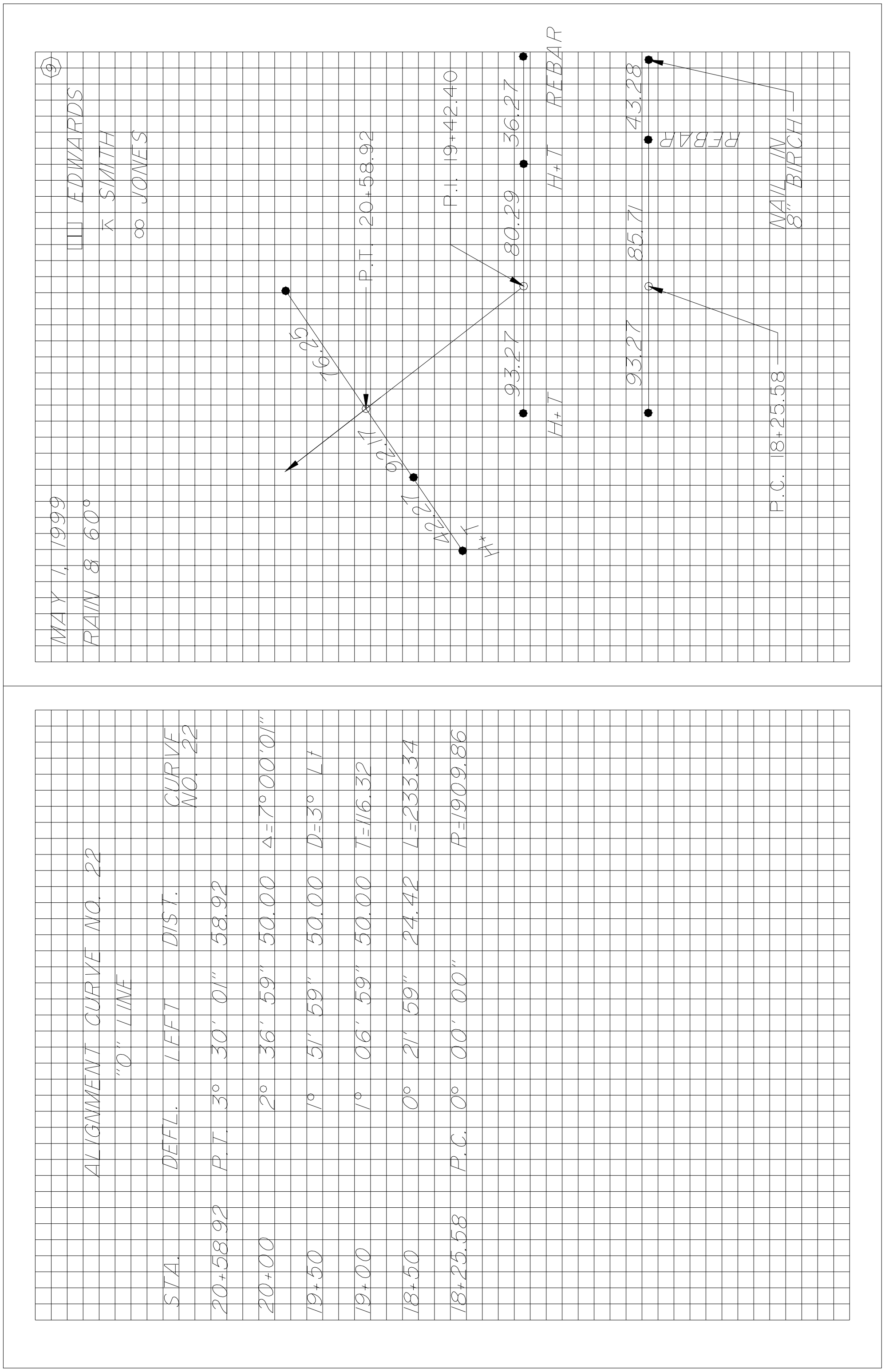
Table 3—Survey point materials requirements

	24" lath or whiskers	2" x 2" x 8" hub	2" x 2" x 12" hub	1" x 2" x 18" stake	1" x 2" x 24" stake	48" lath	Hub and tack	40d nail	60d nail	½" x 24" rebar
Benchmarks									X	
Blue tops	X	X								
Centerline P.C., P.T., P.O.T.			X	X			X *			X*
Centerline reference points			X	X			X *			X *
Centerline station				X				X		
Clearing						X				
Culvert stake			X		X	X				
Culvert stake references			X		X	X				
Curb and gutter			X		X		X			
Guardrail								X		
Major structures			X	X *	X *	X	X *			X *
Red tops	X	X								
Signs						X				
Slope stake					X	X				
Slope stake references			X		X	X				

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

4. Typical alignment notes

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



5. Typical clearing notes

- ✓ Exclude areas not needing clearing.
- ✓ Draw a diagram as required to show unusual or confusing areas.

— CLEARING & GRUBBING —

AUG. 6, 1999

80°± CLEAR

CALM

EDWARDS

SMITH

JONES

(8)

STA.	CL.LT.		CATCH	CATCH		CL.RT.
5+50	149'	+12'	137'	203'	+12'	215'
6+00	164'		152'	188'		200'
6+50	159'		147'	204'		216'
7+00	167'		155'	180'		192'
7+50	179'		167'	188'		200'

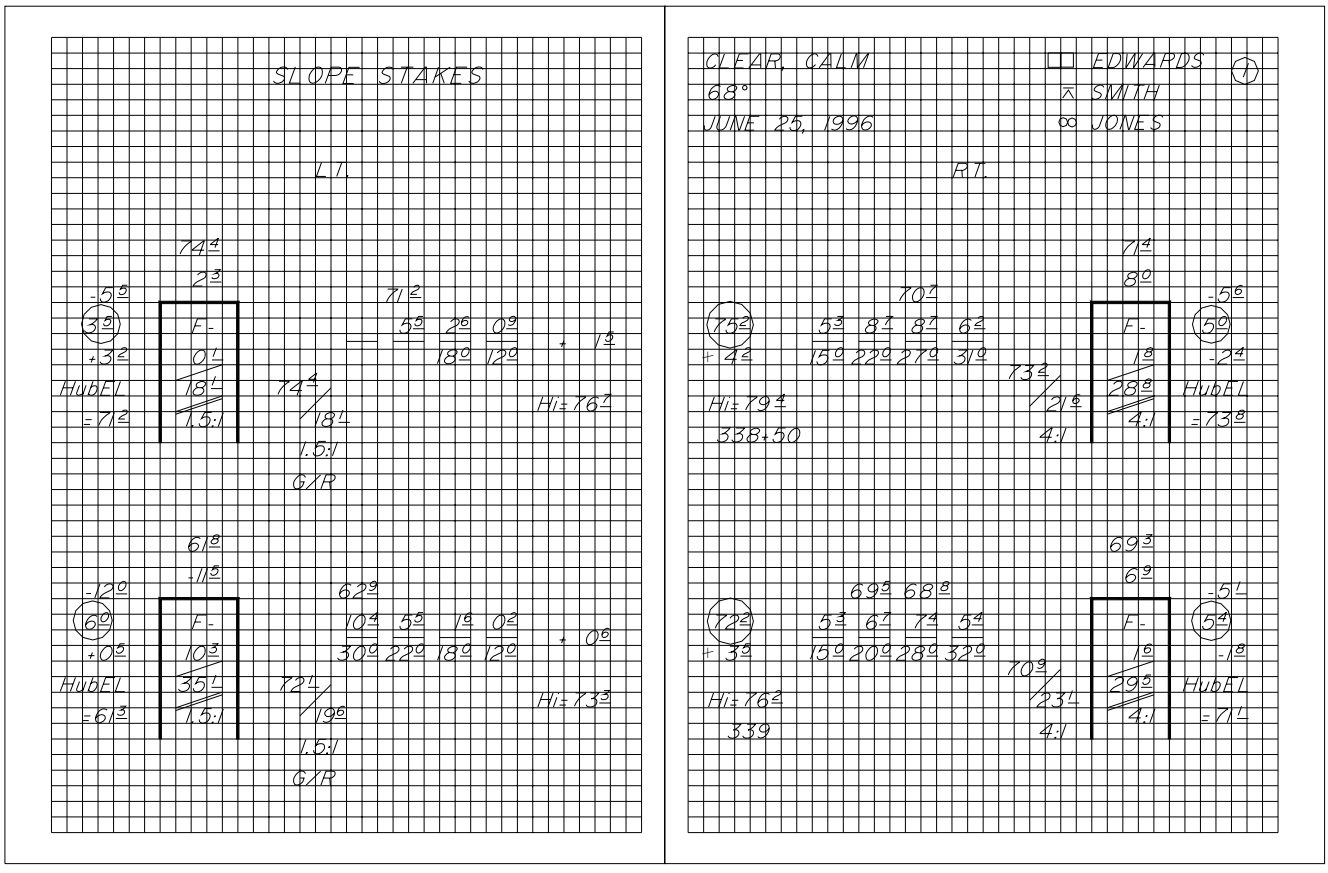
6. Typical level notes

- ✓ 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				⌅ □	㉓ EDWARDS
						WILD 413579		3−23−90		⌖	SMITH
TBM #101											
6+72					161.309		Nail in	base of 12" Spruce			
								85' 10" LT.		6+72	
	3.877	165.186									
6+00			1.95		163.24						
6+25			2.32		162.87						
6+50			2.96		162.23						
T.P.			3.246		161.940						
	1.103	163.043									
6+75			2.31		160.73						
7+00			2.56		160.48						
T.P.			2.823		160.220						
	2.332	162.552									
							Nail in	base of 18" stump			
TBM #102			1.143		161.409		60' 4" RT		7+21	Elev.	161.413

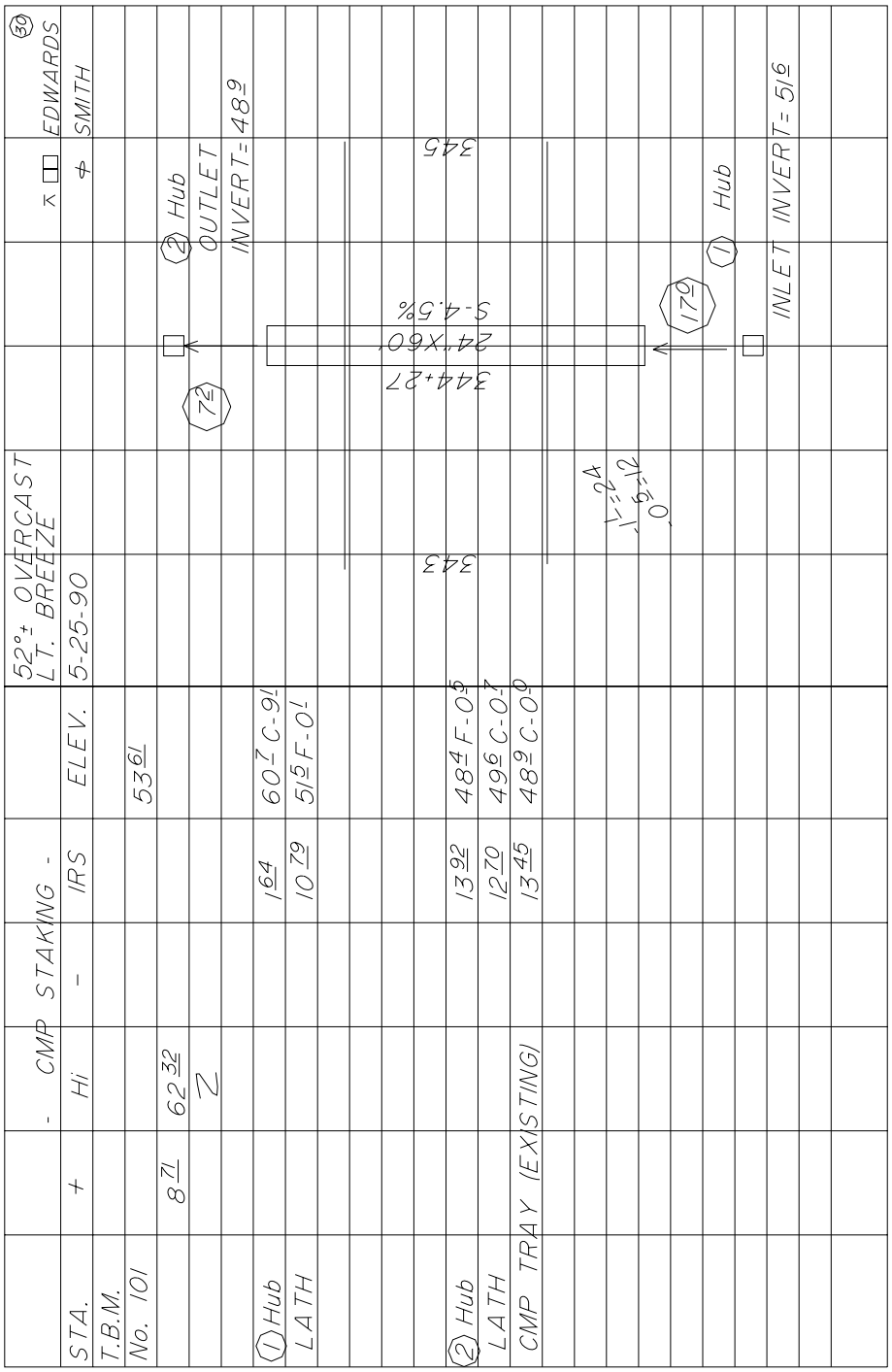
7. Typical slope stake notes

- ✓ Enter the station, elevations, shoulder distance or ditch distances, and slope in the slope stake book before staking begins.
- ✓ In areas where slides or overbreak are anticipated, extend the sections beyond the construction limits.
- ✓ Slope-stake each section that is cross-sectioned.
- ✓ Final re-cross sections are required where there are overbreaks, undercuts, etc. Re-cross section book and page numbers shall be noted on the original cross-section and slope staking page for the relevant stations.
- ✓ 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.
- ✓ 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.

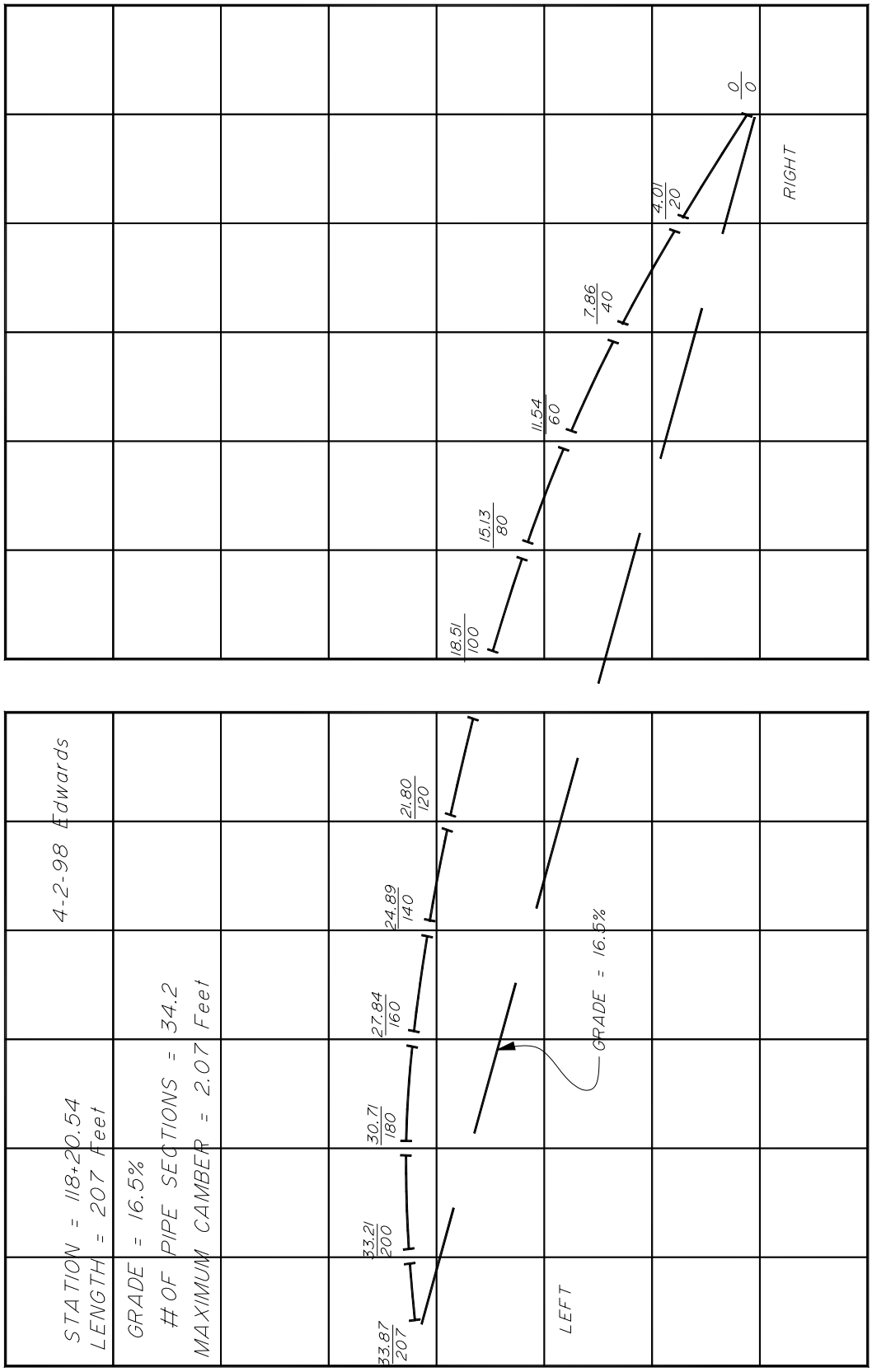


8. Typical culvert notes

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

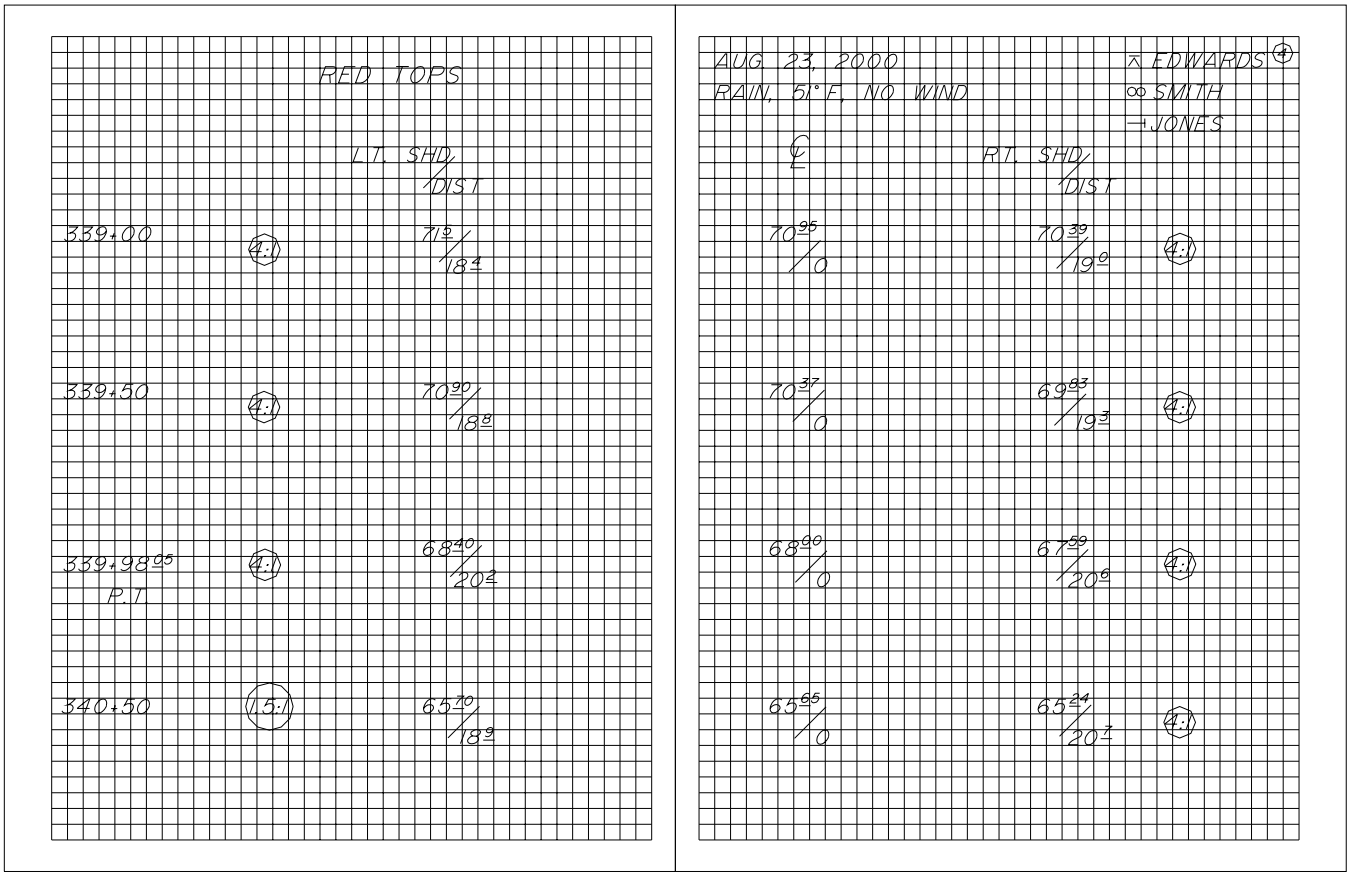


9. Typical culvert camber diagram



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.



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

AS-BUILT SURVEY INSTRUCTIONS

SEPTEMBER 2017

TABLE OF CONTENTS

LIST OF ABBREVIATIONS

AAC	Alaska Administrative Code
ADL	Alaska Division of Lands
ADNR or DNR	Alaska Department of Natural Resources
AS	Alaska Statute
ASLS	Alaska State Land Survey
ASP	Alaska State Plane
DMLW	Division of Mining, Land and Water
DMLW-SS	Division of Mining, Land and Water, Survey Section
DPOR	Division of Parks and Outdoor Recreation
EPF	Engineering Plat File
GIS	Geographic Information System
GNSS	Global Navigation Satellite System
LAS	Land Administration System
MHW	Mean High Water
MLW	Mean Low Water
MLLW	Mean Low Low Water
NAD	North American Datum
NAVD	North American Vertical Datum
OHW	Ordinary High Water
OPUS	Online Positioning User Service
PPM	Parts Per Million
ROS	Record of Survey

A. OVERVIEW

These instructions define general survey and platting criteria on Department of Natural Resources, Division of Parks and Outdoor Recreation (DPOR) managed land for as-built surveys. These instructions provide procedures for surveys of post-construction conditions and graphical representation of the affected real property, improvements, and easement locations to produce clear and complete final as-built Record of Survey (ROS) plat.

1. Goals of the As-Built Survey Include the Following:

    a. Location. The plat will be of sufficient detail to allow a surveyor to locate the installed or constructed improvements relative to the boundaries of the DPOR managed parcel including riparian and fixed and limited boundaries.

    b. State Mapping. As-built plats and files will be used to position the improvements and easements in the State GIS database to facilitate effective land management.

    c. Protection of Rights. Accurate and thorough ROSs are the basis for the unique and accurate legal descriptions of the land being utilized for DPOR facilities. Those ROSs will also aid in future DPOR projects.

These instructions include survey and drafting standards, typical notes, and certifications. The survey standards include general, upland[1], tideland[2], shore[3], and submerged land[4] subsections. Contractors are urged to confer with Department of Natural Resources, Division of Mining, Land and Water, Survey Section (DMLW-SS)[5].

B. DELIVERABLES

The required deliverables are:

1. Final Record of Survey Plat. Sealed hardcopies and electronic copies conforming to the requirements listed herein.

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[1] Uplands shall be all lands above mean high water or ordinary high water.

[2] Tidelands shall be all land that is periodically covered by tidal water between the elevations of mean high water and mean low water [AS 38.05.365(23)].

[3] Shorelands shall be land belonging to the State which is covered by non-tidal water that is navigable under the laws of the United States up to ordinary high water as modified by accretion, erosion, and reliction [AS 38.05.965(20)].

[4] Submerged land shall be all land lying seaward from the line of mean low tide [AS 38.05.365].

[5] Alaska Department of Natural Resources, Division of Mining, Land and Water, Survey Section contacts: Eric Simons (907) 269-8524 and Stanley Brown (907) 269-8521; 550 West 7th Avenue, Suite 650; Anchorage, AK 99501.

2. OPUS Solution Report. Hardcopies of the OPUS Solution Report. OPUS Shared Solutions are preferred.

C. COMPREHENSIVE SURVEY REQUIREMENTS

1. General. Contact the DMLW-SS staff to obtain an Engineering Plat File (EPF) number specific to this project. DMLW-SS staff are also available for consultation and contractors are encouraged to contact them to discuss these standards and how they relate specifically to this project.

2. Standards.

   a. General. Land surveys affecting legal real property rights of the State of Alaska, the adjoining land owner, or both shall be performed in accordance with applicable laws, regulations, rules of procedure, acceptable professional practices, and AS 34.65.020. They shall be performed under direct supervision of a Professional Land Surveyor licensed to practice in the State of Alaska. All survey work must be accomplished with equipment and procedures sufficient to ensure at least the degree of accuracy prescribed in these instructions. DMLW-SS shall track the survey on the LAS system, assign an EPF number, and notify the contractor of the LAS File type, number, and legal description for the plat title block.

   b. Measurements. As-built surveys are generally metes and bounds or positional type surveys of install or constructed improvements on DPOR lands relative to legal boundaries, monuments, other improvements, and natural features. The survey and plat shall represent the project's post-construction location and condition.

      1) Metes and Bounds: Conventional type surveys are designated as Class III Surveys under 11 AAC 53.110.

      2) Positional and Radial Type Surveys on Tidelands and/or Uplands: The allowable relative positional accuracy on these lands shall be better than ± 0.26 feet + 200 ppm[6].

      3) Distances: Distances on the as-built plats shall be horizontal ground distances. Use Alaska State Plane NAD 83 (ASP). Distances may be shown in tabular form. Show average scale factor for each sheet if ASP distances are used for more accurate acreage computation based on horizontal ground distances.

      4) Bearing: All bearings on the as-built plats shall be ASP bearings relative to the Basis of Bearing. Bearings shall be shown to the nearest second.

      5) Area: Total area of the improvements in as-built shall be shown.

[6] National Society of Professional Land Surveyors, NSPS Classification and Accuracy Standards for Property Surveys, Section C, approved March 12, 2002. http://www.nspsmo.org/

3. Control Monumentation.

   a. Overall Concept. A control network of reliable control monuments with accurate geographic positions based on OPUS generated coordinates will be used as overall control of the survey. Intermediate monuments will be found and/or set and tied geographically. Water meander line points and as-built survey points will be tied to the control network. All data will comply with specified standards.

   b. Site Control. All projects shall have reliable control monuments of record or newly established primary reference monuments on or near the improvements with good quality geographic coordinates shown. If project design drawings are available, monuments from the survey control sheet should be used.

      1) Project Control Monuments. Control will be one record monument with NAD 83 geographic coordinates and ASP coordinates derived and shown located in the vicinity of the project. Additionally, a new OPUS Solution is required for this position.

      2) Local Control Monument. Three monuments within the project site and near the improvements will need to be recovered or set. OPUS Solutions are required for those monuments. Those monuments will be used for future projects and should be located where they are unlikely to be disturbed. The local control monuments are to be 5/8 inch rebar with a 2-1/2 inch aluminum cap provided by DPOR.

      3) Lacking Reliable Monuments. Set primary monuments per 11 AAC 53.190 and 11 AAC 53.200.

   c. Vertical Control to Establish Mean High Water and Ordinary High Water.

      1) Basis of Elevation. Elevation information will be shown in the drawings only on the control points and to referenced bench marks or vertical control on all projects, unless otherwise specified.

      2) Vertical Reference Ties. Include an explanation in one of the notes or on graphics of how mean high water (MHW) and ordinary high water (OHW) meander were determined or established.

   d. Basis of Coordinates. All project geodetic coordinates will be based on geodetic positions of the control monuments.

4. Items to be Surveyed and Mapped.

   a. Boundaries.

      1) Property Boundaries. DPOR park unit boundaries which are crossed by the improvements, or border on, or lie within 100 feet of the improvements must be tied and shown. Survey of at least two reliable monuments and accessories are required to define a boundary location. Rubbings, photos, or a sketch of the monument markings, type, and condition will be noted in the field books and on the plats.

      2) Other Record Easements. Identify, and survey if necessary, other easements which abut or cross the project limits and show them on the as-built plats. State section line easements are not required to be shown unless specified.

      3) Survey of MHW and OHW. Lines of MHW and OHW shall be surveyed and mapped as specified herein. Generally acceptable methods to locate the and map MHW, MLLW, and OHW are addressed in the DMLW-SS website under Alaska tideland surveys, link to 2002 Survey Conference Alaska Tideland Surveys, "Who, What, When, Where, How and Why" pursuant to 11 AAC 53.120.

         a) MHW or OHW on Navigable Waters in areas of Manmade Fill (when applicable). Determine and map as best as possible, the pre-construction MHW or OHW meander line prior to placement of the fill (this requires a unique line type for the fixed and limiting boundary) on navigable waters shall be mapped to a distance of 50 feet beyond the project area or the Parks Unit boundary. In the fill area, the post-construction MHW or OHW with current toe and top of fill will be surveyed and shown. Best available evidence may include a timely land survey showing current OHW and/or MHW prior to the installation of the fill; water edges or levels in the plan and profile view; engineering and planning mapping or data which indicated water levels and profiles of conditions existing when the fill was planned for prior to placement; and aerial photos which would help located the OHW line at the time.

         b) MHW or OHW in Navigable Waters in Areas of Avulsion. Determine and map as best as possible the current meander and if possible the record meander line. The survey shall be to standards as stated for uplands.

   b. Project Improvements, Improvement Centerline, and Centerline Marker. Structures, pads, and appurtenances shall be located and mapped to include toe and fill, top edge of fill, structure perimeter, intake structures, and utilities.

c. Pre-Existing Improvements and Natural Features.

1) Major Natural Features and Pre-Existing Improvements within 50 Feet of Project Improvements. Other existing improvements such as buildings, roads, trails, manholes, utilities, etc. and major natural features such as water bodies, cliffs, etc. within 50 feet of the improvements under the project will be tied and shown on the as-built plat.

2) Features within 300 Feet of Centerline. Pre-existing improvements and major natural features beyond 50 feet but less than 300 feet from centerline of the project and on state land shall be mapped on the as-built plat using aerial photography or mapping grade tools.

3) Shorelines. Shorelines shall be shown adjacent to the submerged lands segments and land masses and waterbodies labeled.

d. Typical Cross Section of Linear Improvements. A typical section of roads, driveways, etc. showing width, depth, different materials used, etc.

e. Typical Cross Section of Rip Rap Areas. A typical section of the erosion control area showing approximate width, length, depth of the erosion control fill and material used.

f. Pre-Construction Survey on Projects that Fill-In Tidelands or Shore Lands. Wherever possible, MHW or OHW will be surveyed prior to placement of the fill. This meander line will be to a minimum of two new or record upland monuments. Note the methods by which the OHW elevation and position was determined. The meanders of the MHW or OHW just prior to placement of the fill will become fixed and limiting boundary lines in the area of the fill.

D. DRAFTING REQUIREMENTS AND STANDARDS

1. Medium and Format. Submit the final as-built plats on stable Mylar or equivalent film that does not exceed 24 x 36 inches' sheet size in the "Record of Survey" format. Samples can be obtained from DMLW-SS. Project name, "Record of Survey of Project No. XXXXX-X" and "EPF 20XXXXXX" must be at least 0.25 inch tall. Scanned copies in PDF format of the final as-built plats, signed and sealed, shall also be submitted either on disc or portable drive.

2. Content Format. Provided as-built plat samples are the format guide. The title block, vicinity map, legend, notes, surveyor's seal, and graphics shall be shown substantially as indicated. Individual firm or company logos, title block, certificates, notes, north arrow, etc. are acceptable if in a reasonably similar format as the sample drawing. Submit the final as-built plats with original stamps and signatures. The final as-built plat must be neat, orderly, easily read, and complete.

3. Recordation. DPOR will record the completed plats. The plat will need to meet standards set forth by 11 AAC 06.040 (Prerequisites for Recording Documents).

4. Line Work. All line work on the as-built drawing must be of professional quality in black drafting ink and of such width and contrast as to clearly convey all information.

5. Text (Lettering) Clarity and Minimum Size. All lettering on the plats must be of professional quality in black drafting ink and of such size and contrast to clearly depict all information. No lettering shall be smaller than 0.8 inch high.

6. Drawing Scale. The plat must be in an appropriate engineering scale preferably one inch representing 40 feet and/or one inch representing 100 feet. If the 40 and 100 scales are impractical then use standard civil scales in multiples of 10 feet per inch.. Details shall be shown to scale and on the sheet to which they apply.

7. Vicinity Map. A vicinity map is required. It shall be at whatever scale is necessary to show the entire project and clearly indicate section, township, range, and geographic information. The vicinity map should be on the first sheet and on others as needed. If multiple sheets are required, the vicinity map shall indicate the coverage by each sheet. The vicinity map will generally be oriented to north.

8. Multiple Sheets in a Set. If more than one sheet is required to clearly show the project, the vicinity map, legend, notes, surveyor's certificate, approved title block, and any other required certificates shall appear on the first sheet. All other sheets shall also show ADL number, scale, and sheet number/total number of sheets, location by section, township, and range, match lines and stations, and project scale.

9. Sheet Match Lines. Match lines at the left and right margins of each sheet will be shown at common centerline stations.

10. Control Diagram. Larger view control diagram may be beneficial and necessary.

11. Boundary Lines and Bearing and Distance Labels. All surveyed legal boundaries, including aliquot part boundaries adjacent to, surrounding, and or crossing the project shall be shown with recorded and measured[7] bearings and distances and tied to the improvement. The extent of this provision can be abbreviated in areas congested with legal boundaries with written permission.

    a. Boundary Line Type and Weight. All surveyed lines of record shall be shown with a solid line type. All non-surveyed lines, tie lines, and easement lines shall be contrasting line types and scales.

    b. Boundary Line Label Specifics. Record bearings and measured bearings of the boundaries will be labeled on the boundary line itself or referenced and shown in a table. The measured distances shall be horizontal ground distances unless specified otherwise.

[7] Measured shall mean the distance and/or bearing between two found and surveyed monuments.

c. Line Status. Except for the ties and centerline information itself, all bearings and distances shall be labeled (R) for record, (M) for measured, or (C) for computed[8].

d. Section Lines and Section Line Easements. Surveyed and protracted section lines will be shown. Section line easements will not be shown unless otherwise specified. Surveyed section lines shall be solid line types. Protracted, unsurveyed section lines and easement boundaries shall be dashed lines.

e. Riparian Park Unit Boundaries (where applicable): Upland boundaries will be the identified meander line of MHW or OHW. If applicable the meander line prior to fill will be a fixed and limiting boundary described by bearings and distances tied to control. Seaward boundary will be the line described by bearing and distances tied to control which generally encompass the toe of fill.

12. Monuments.

a. Monument Markings. Exact markings on all found[9] or recovered and set monuments and their accessories must be shown on the plat. If particular monumented corners were not surveyed during the filed survey, record monuments must be indicated with a unique symbol. No markings of any kind shall be added to any recovered survey monuments or existing bearing trees.

b. Monument Type and Dimensions. The monument type, material, diameter, and length of rod and cap shall be noted.

c. Control Monument Notations. The control monuments will be shown. NAD 83 Lat, Long, NAVD 88 Elevation, and ASP coordinates/zone shall be shown in a table directly next to the cap. The inverse between any two upland/tideland control monuments will be labeled in mean geodetic bearings, horizontal ground distance.

13. Improvement Mapping. Survey and map in an accurate and scalable manner: the tops and toes of fill, structures, drainage features, and improvement appurtenances such as junction boxes, elbows, ports, etc. All project improvements will be dimensioned and labeled. All elevation critical improvements (e.g, culvert inverts, septic line inverts, manhole inverts, etc.) shall have elevation information.

14. Acreage. Show approximate acreage on state lands.

15. Topographic, Natural, and Pre-Existing Improvement Feature Depiction. Pre-existing improvements (e.g., roads, buildings, utilities, etc.) and major topographic features (e.g., bodies of water, drainage features, cliffs, etc.) shall be located and labeled on the as-built drawing if they lie within 50 feet of the project improvements. Current meander lines of

[8] Computed shall mean a position, bearing, or distance on a point or between two points which have not been surveyed in the execution of these instructions.
[9] Found shall mean a recovered and surveyed monument.

water bodies which border or lie within 50 feet of the project improvements will be mapped out to 50 feet from the project improvements. Major features and pre-existing improvements within 300 feet of the project improvements, and within state land, will be mapped for general location only.

16. Land Ownership Labels. Ownership of adjoining land within 100 feet of the project area shall be labeled (e.g., federal, state, private, native corporation, etc.) and with the legal parcel identification (e.g., lot, block, subdivision designation, U.S. survey number, ASLS, section, aliquot part, etc.).

17. Encroachments. Encroachments onto the park unit shall be tied in the same manner as other improvements.

18. North Arrow. A north arrow is required on each sheet, to include the magnetic declination and source and date of declination.

19. Graphic Scale. A graphic scale in inches and U.S. Survey feet is required on each as-built sheet. The foot scale must be identical to that used in the survey portion of the plat. Two equations must also be shown: 1 meter = 3.280833 U.S. Survey Feet and 1 U.S. Acre = 0.4047 hectare.

20. Graphics Orientation. The graphics of plats shall be generally oriented with north towards the top of the sheet, unless impractical.

21. Title Block Requirements. The recommended Record of Survey title block is as follows:

STATE OF ALASKA DEPARTMENT OF NATURAL RESOURCES DIVISION OF MINING, LAND AND WATER ANCHORAGE, ALASKA	SURVEYOR: **[INSERT SURVEY CO.]** **[INSERT ADDRESS]** **[INSERT PHONE NO.]**

RECOD OF SURVEY

Doc Title: RS – **[INSERT PROJECT NAME SHOWN ON CONTRACT DOCUMENTS]***

1. PROJECT No. **[INSERT PROJECT NO. SHOWN ON CONTRACT DOCS]**
2. DIVISION OF PARKS AND OUTDOOR RECREATION
3. **[INSERT PARK UNIT]**
4. **[INSERT PROJECT TITLE SHOWN ON CONTRACT DOCUMENTS]**
5. ADL **[INSERT ADL NUMBER]**
6. AS-BUILT SURVEY

LOCATED WITHIN: **[INSERT SECTION, TOWNSHIP, RANGE, MERIDIAN INFO]**, ALASKA

[INSERT RECORDING DISTRICT] RECORDING DISTRICT, ALASKA

SHEET ____ OF ____	DNR APPROVAL
DATES OF SURVEY: BEGIN: _____ END: _____	_____ _____ STATEWIDE PLATTING SUPERVISOR DATE
DRAWN DATE: _____ DRAWN BY: _____ SCALE: _____	DNR FILE No.: **EPF** 20**[XXXXXX]**

*Note that **[INSERT PROJECT NAME SHOWN ON CONTRACT DOCUMENTS]** is limited to 40 characters

22. As-Built Plat Submittal Process. Upon completion of preliminary as-built plats, submit two full-sized paper copies of each sheet, along with supporting documents, to DMLW-SS for review and a third courtesy set to the Project Engineer. The roll or folded package should state "As-Built Drawings" on the outside of the submittal. Reviews will be completed by DMLW-SS and returned with red-lined documents, a check list, and review letter with required changes.

E. TYPICAL NOTES

1. Use the following notes as applicable to the specific project. Insert queued information relevant to the specific project.

   a. History. "This Record of Survey represents a post-construction survey of **[INSERT PROJECT NAME AND NUMBER SHOWN ON CONTRACT DRAWINGS]**, which were completed in **[INSERT YEAR OF COMPLETION]**. The improvements include **[INSERT LIST OF IMPROVEMENTS UNDER THE PROEJCT]**."

b. Post-Construction Statement. “This as-built represents a post-construction survey of **[INSERT PROJECT NAME AND NUMBER SHOWN ON CONTRACT DRAWINGS]**. It is intended to depict the location portion of the improvements as it pertains to state land is not to be presumed to plat or dedicate those portions pertaining to non-state lands. This as-built is not intended to be used to re-establish property boundaries. Except as indicated, no encroachments within the vicinity of the project area exist with the park unit.”

c. Record of Survey Note. “This survey does not constitute a subdivision as defined by AS 40.15.900(5)(A).”

d. The Basis of Coordinates. “The basis of coordinates is **[DESCRIBE MONUMENT AND CORNER REPRESENTED]** as shown, more exactly on **sheet [INSERT SHEET NUMBER]** of these drawings, positional data derived from **[INSERT WHERE DERIVED FROM]** as indicated.”

   Show in the graphics the geodetic position of the monument, associated ASP position, NAD 83, and epoch of data.

e. Basis of Bearing Based on Record Bearing Between Two Monuments. “All bearings are **[INSERT TRUE MEAN OR GRID – SPECIFY ASP, LOCAL, OR OTHER GRID IF GRID]** bearings as oriented to the Basis of Bearing.”

   Indicate on the drawing the bearing between two found monuments of record and source of record used as the basis of bearing for depiction of the data.

f. GNSS Survey.

   a) Other than ASP, the use of grid bearings that are based on the bearings as shown on the project design drawing’s survey control sheet may be approved by DMLW-SS. Notes from the survey control sheet should be verified and at a minimum contain the data in item b):

   b) How to convert the shown grid data to ASP data: (Consider the order in which this data was originally changed to non-ASP grid values and reverse)

      i. Values to add or subtract from each coordinate set to translate to ASP values.
      ii. Angle and direction or rotation to rotate the data to ASP values in position.
      iii. Note the scale factor to use to bring the data to ASP values.

g. Distances. “All distances are reduced to horizontal ground distances unless otherwise noted” or “All distances are Alaska State Plane Zone **[INSERT ZONE]**, NAD **[INSERT NAD DESIGNATION]** distances with scale factor shown to reduce to horizontal ground distances.”

h. Meander Lines. “The natural meander of the ordinary high water line form the true bounds of **[INSERT PROJECT NAME AND NUMBER SHOWN ON CONTRACT DRAWINGS]** and the **[INSERT WATER BODY]** as shown.

i. Method(s) Used to Establish Ordinary High Water. “Ordinary high water on all public and navigable waters shown was determine by **[INSERT METHOD]**.”

j. Easement Sidelines. “Easement sidelines are extended or shortened to meet at angle points and terminate at boundaries with non-state lands.”

k. Conventional Closure. “The error of closure of this survey does not exceed 1:5000.”

l. Positional Accuracy. “All survey data produced by this as-built survey is no less accurate than ± 0.26 feet + 200 PPMA relative to any and all other points in this upland and tideland survey segment located within **[INSERT SECTION, TOWNSHIP, RANGE, MERIDIAN]**.”

m. All Parcels. “All parcels of land owned by the State of Alaska, located within 50.00 feet of, or bisected by a surveyed or protracted section line, are subject to a fifty-foot (50’) easement, each side of the section line, which is reserved to the State of Alaska for public highways under AS 19.10.010.

F. CERTIFICATES

Certificates should be shown substantially as follows with headings capitalized and underlined.

1. Surveyor Certificate.

SURVEYOR’S CERTIFICATE

I hereby certify that I am properly registered and licensed to practice land surveying in the State of Alaska, that this plat represents a survey made by me or under my direct supervision, that the monuments shown hereon actually exist as described, and that all dimensions and other details are correct.

Date: _____ Registration Number: _____

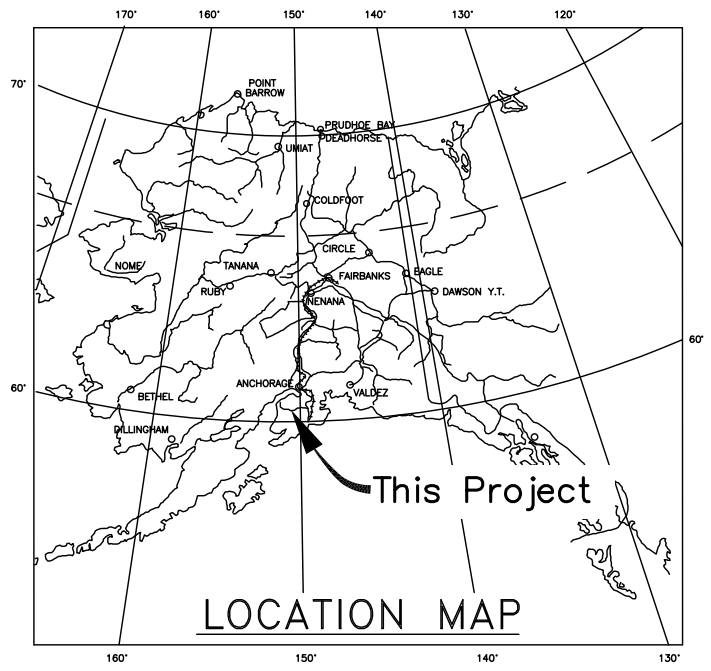
[SURVEYOR’S SEAL] **[SIGNATURE IN BLACK INK]**

Registered Land Surveyor

APPENDIX C
STORM WATER POLLUTION PROVENTION PLAN (SWPPP)

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

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



SITE DESCRIPTIONS

1. SITE FUNCTION: RECREATIONAL FACILITY
2. THIS PROJECT INCLUDES RECONDITIONING THE EXISTING ROAD AND CAMPSITES, INSTALLATION OF PARK AMENITIES, AND INSTALLATION OF NEW SINGLE VAULT CONCRETE TOILET. PROJECT AREA = 2.6 ACRES (EXCLUDING MATERIAL SITES)
3. PROJECT DISTURBED AREA = 0.1 ACRES (EXCLUDING MATERIAL SITES)
4. PERCENTAGE IMPERVIOUS AREA BEFORE CONSTRUCTION: 10%
5. RUNOFF COEFFICIENT BEFORE CONSTRUCTION: 0.86
6. PERCENT IMPERVIOUS AREA AFTER CONSTRUCTION: 10%
7. RUNOFF COEFFICIENT AFTER CONSTRUCTION: 0.86
8. MATERIAL SITES: AGGREGATE MATERIAL WILL BE OBTAINED FROM CONTRACTOR FURNISHED SITES.
9. EXISTING SOILS CONSISTS OF SALCHAKET VERY FINE SANDY LOAM. THIS INFORMATION WAS OBTAINED FROM THE USDA, NRCS WEBSOIL WEBSITE.

ENVIRONMENTAL INFORMATION

1. RECEIVING WATER BODIES: CHATANIKA RIVER
2. IMPAIRED WATER BODIES: NONE
3. TOTAL MAXIMUM DAILY LOAD (TMDL) WATERS: N/A
4. THREATENED AND ENDANGERED SPECIES (ESA); NONE KNOWN
5. HISTORIC IMPACTS: NONE
6. MIGRATORY BIRD TREATY ACT: CLEARING & GRUBBING ACTIVITIES BETWEEN MAY 1 AND JULY 15 MAY INTERFERE WITH MIGRATORY BIRDS. REFER TO THE US FISH AND WILDLIFE SERVICE FOR DETAILS.
7. CONTACT THE PROJECT ENGINEER WITH ADDITIONAL QUESTIONS/CONCERNS REGARDING ENVIRONMENTAL MATTERS.

ASSUMED CONSTRUCTION SEQUENCE

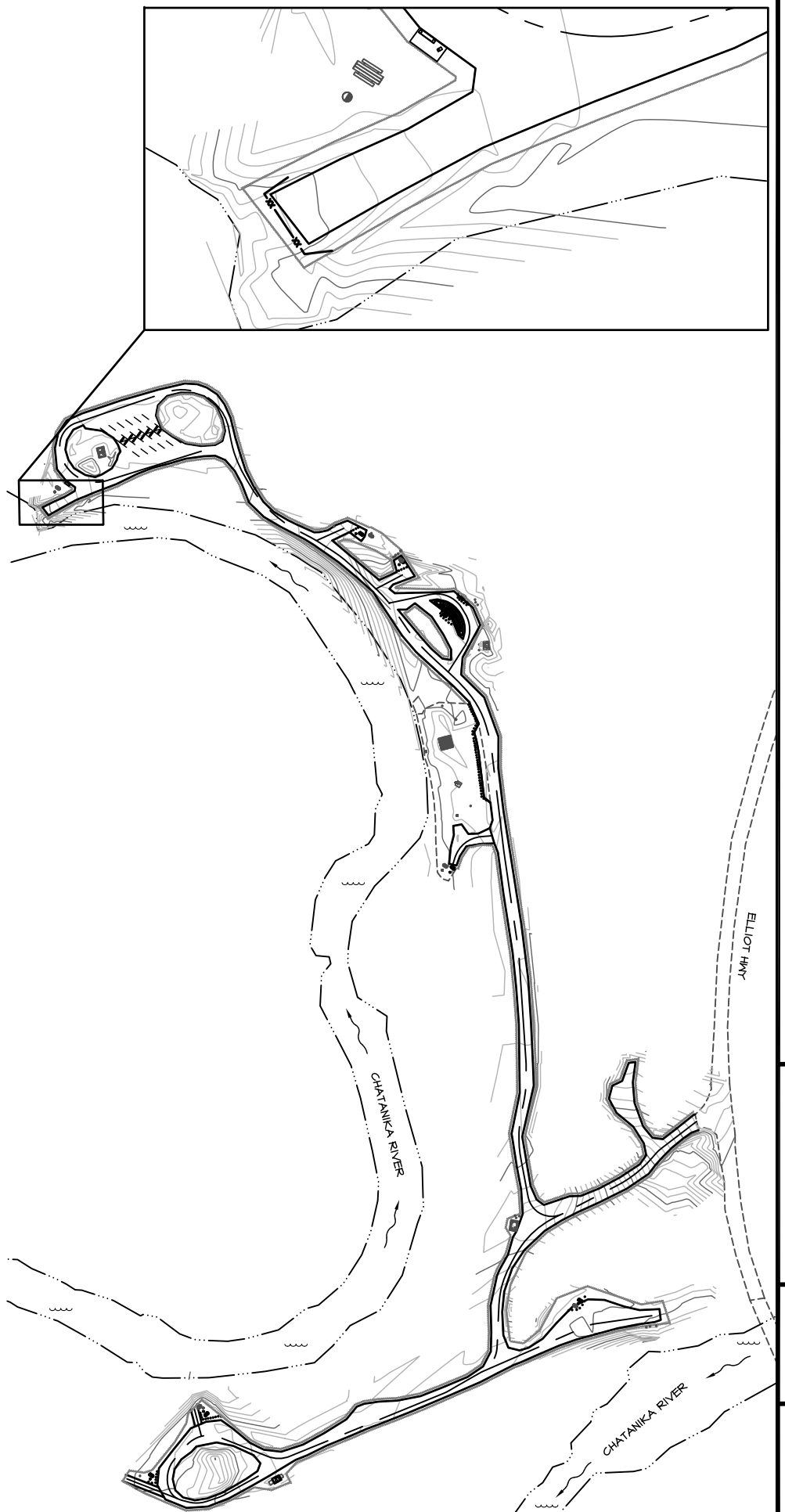
1. INSTALL BMPS
2. REMOVAL OF STRUCTURES AND OBSTRUCTIONS
3. RECONDITION EXISTING ROAD AND CAMPSITES
4. HAUL AND PLACE RAM
5. REMOVE AND REPLACE EXISTING TOILET
6. REMOVE BMPS

EROSION AND SEDIMENT CONTROL PLAN (ESCP) NOTES

1. THE ESCP IS A GENERAL PLAN FOR GUIDING THE DEVELOPMENT OF THE CONTRACTOR'S STORMWATER POLLUTION PREVENTION PLAN (SWPPP). THE CONTRACTOR IS EXPECTED TO PROVIDE ADDITIONAL DETAILS AND BEST MANAGEMENT PRACTICES (BMPs) BASED ON THE CONTRACTOR'S ACTUAL SCHEDULE AND CONSTRUCTION METHODS, ARE REQUIRED TO COMPLY WITH THE CONSTRUCTION GENERAL PERMIT AND SECTION 641 OF THE SPECIFICATIONS.
2. SEDIMENT CONTROL MEASURES AND TEMPORARY EROSION CONTROL FEATURES SHALL BE BASED ON BMPs AS CONTAINED IN THE DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES' MANUAL "CONTRACTOR GUIDANCE FOR PREPARING AND EXECUTING STORMWATER POLLUTION PREVENTION PLANS."
3. THE CONTRACTOR SHALL IDENTIFY ALL OPERATIONAL CULVERTS AND STORMDRAINS IN THE PROJECT THAT WILL BE IMPACTED BY STORMWATER FROM PROJECT ACTIVITIES. THE CONTRACTOR SHALL PROVIDE INLET AND OUTLET PROTECTION FOR THOSE CULVERTS AND STORMDRAINS.
4. THE CONTRACTOR SHALL MINIMIZE THE AMOUNT OF DISTURBED AREA OPEN TO EROSION AT ANY ONE TIME.
5. EROSION AND SEDIMENT CONTROL BMPs SHALL BE INSTALLED WITHIN 14 DAYS IN AREAS WHERE EARTHWORK DISTURBANCE HAS TEMPORARILY OR PERMANENTLY CEASED.
6. ALL DISTURBED GROUND CAPABLE OF SUPPORTING VEGETATION SHALL BE REVEGETATED ACCORDING TO SECTION 618 FOR FINAL STABILIZATION. FINAL STABILIZED AREAS NOT REVEGETATED SHALL BE 100% COVERED BY ROCK, ASPHALT, CONCRETE, OR OTHER PERMANENT NON-ERODABLE MATERIAL.
7. TEMPORARY PERIMETER CONTROLS SHALL BE INSTALLED FOR ANY FILL PLACED WITHIN 20 FEET OF ORDINARY HIGH WATER.
8. TEMPORARY PERIMETER CONTROL BMPs SHALL BE INSTALLED BEFORE ANY UP-GRADIENT SOIL DISTURBANCE OCCURS.
9. PROVIDE PERIMETER CONTROLS IN AREAS NOT SHOWN ON THE PLANS AS NEEDED TO PREVENT SEDIMENT FROM LEAVING THE PROJECT AREA.
10. RETAIN A VEGETATIVE BUFFER STRIP IN UPLAND AREAS WHEREVER POSSIBLE. VEGETATIVE BUFFER STRIPS MAY BE USED IN LIEU OF SILT FENCE OR OTHER TEMPORARY DEVICES PROVIDED THEY ARE OF SUFFICIENT WIDTH FOR THE CATCHMENT AREA.
11. AVOID CONDITIONS WHICH PROMOTE CONCENTRATED FLOWS. INSTALL VELOCITY CONTROL BMPs WHEN CONCENTRATED FLOWS OCCUR.
12. SLOPE PROTECTION MAY INCLUDE SLOPE ROUGHENING, TACKIFYING, EROSION CONTROL BLANKETS, SEEDING, ROCK LINING, OR OTHER METHODS APPROVED BY THE PROJECT ENGINEER.
13. ALL STOCKPILES OF ERODIBLE MATERIALS SHALL HAVE PERIMETER CONTROL IN PLACE.
14. ERODIBLE MATERIALS MAY NOT BE STOCKPILED WITHIN 100 FEET OF ORDINARY HIGH WATER.

ESCP LEGEND

BMP DEVICE BY CONTRACTOR



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

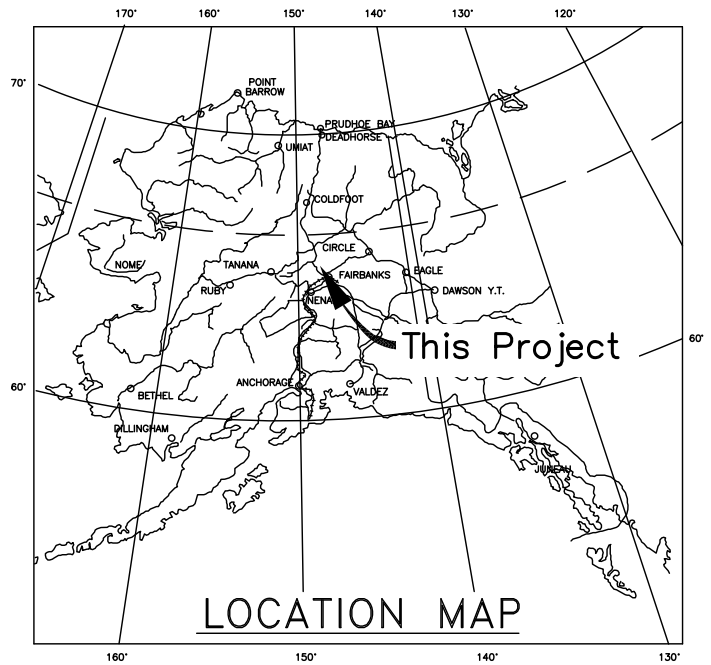
ESCP WHITEFISH CAMPGROUND

LOWER CHATANIKA RIVER SRA FACILITY IMPROVEMENTS PROJECT No. 73035-3

ALASKA STATE PARKS

PREPARED: RCS
DRAWN: RCS
REVIEWED: LMR
DATE: 7/18/2017

SHEET 1 OF 2 SHEETS



LOCATION MAP

SITE DESCRIPTIONS

1. SITE FUNCTION: RECREATIONAL FACILITY
2. THIS PROJECT INCLUDES RECONDITIONING THE EXISTING ROAD AND CAMPSITES, INSTALLATION OF PARK AMENITIES. PROJECT AREA = 2.6 ACRES (EXCLUDING MATERIAL SITES)
3. PROJECT DISTURBED AREA = 1 ACRES (EXCLUDING MATERIAL SITES)
4. PERCENTAGE IMPERVIOUS AREA BEFORE CONSTRUCTION: 10%
5. RUNOFF COEFFICIENT BEFORE CONSTRUCTION: 0.86
6. PERCENT IMPERVIOUS AREA AFTER CONSTRUCTION: 10%
7. RUNOFF COEFFICIENT AFTER CONSTRUCTION: 0.86
8. MATERIAL SITES: AGGREGATE MATERIAL WILL BE OBTAINED FROM CONTRACTOR FURNISHED SITES.
9. EXISTING SOILS CONSISTS OF SALCHAKET VERY FINE SANDY LOAM. THIS INFORMATION WAS OBTAINED FROM THE USDA, NRCS WEBSOIL WEBSITE.

ENVIRONMENTAL INFORMATION

1. RECEIVING WATER BODIES: OLNES POND
2. IMPAIRED WATER BODIES: NONE
3. TOTAL MAXIMUM DAILY LOAD (TMDL) WATERS: N/A
4. THREATENED AND ENDANGERED SPECIES (ESA); NONE KNOWN
5. HISTORIC IMPACTS: NONE
6. MIGRATORY BIRD TREATY ACT: CLEARING & GRUBBING ACTIVITIES BETWEEN MAY 1 AND JULY 15 MAY INTERFERE WITH MIGRATORY BIRDS. REFER TO THE US FISH AND WILDLIFE SERVICE FOR DETAILS.
7. CONTACT THE PROJECT ENGINEER WITH ADDITIONAL QUESTIONS/CONCERNS REGARDING ENVIRONMENTAL MATTERS.

ASSUMED CONSTRUCTION SEQUENCE

1. INSTALL BMPS
2. REMOVAL OF STRUCTURES AND OBSTRUCTIONS
3. RECONDITION EXISTING ROAD AND CAMPSITES
4. INSTALLATION OF CULVERTS
5. HAUL AND PLACE RAM
6. REMOVE BMPS

EROSION AND SEDIMENT CONTROL PLAN (ESCP) NOTES

1. THE ESCP IS A GENERAL PLAN FOR GUIDING THE DEVELOPMENT OF THE CONTRACTOR'S STORMWATER POLLUTION PREVENTION PLAN (SWPPP). THE CONTRACTOR IS EXPECTED TO PROVIDE ADDITIONAL DETAILS AND BEST MANAGEMENT PRACTICES (BMPs) BASED ON THE CONTRACTOR'S ACTUAL SCHEDULE AND CONSTRUCTION METHODS, ARE REQUIRED TO COMPLY WITH THE CONSTRUCTION GENERAL PERMIT AND SECTION 641 OF THE SPECIFICATIONS.
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9. PROVIDE PERIMETER CONTROLS IN AREAS NOT SHOWN ON THE PLANS AS NEEDED TO PREVENT SEDIMENT FROM LEAVING THE PROJECT AREA.
10. RETAIN A VEGETATIVE BUFFER STRIP IN UPLAND AREAS WHEREVER POSSIBLE. VEGETATIVE BUFFER STRIPS MAY BE USED IN LIEU OF SILT FENCE OR OTHER TEMPORARY DEVICES PROVIDED THEY ARE OF SUFFICIENT WIDTH FOR THE CATCHMENT AREA.
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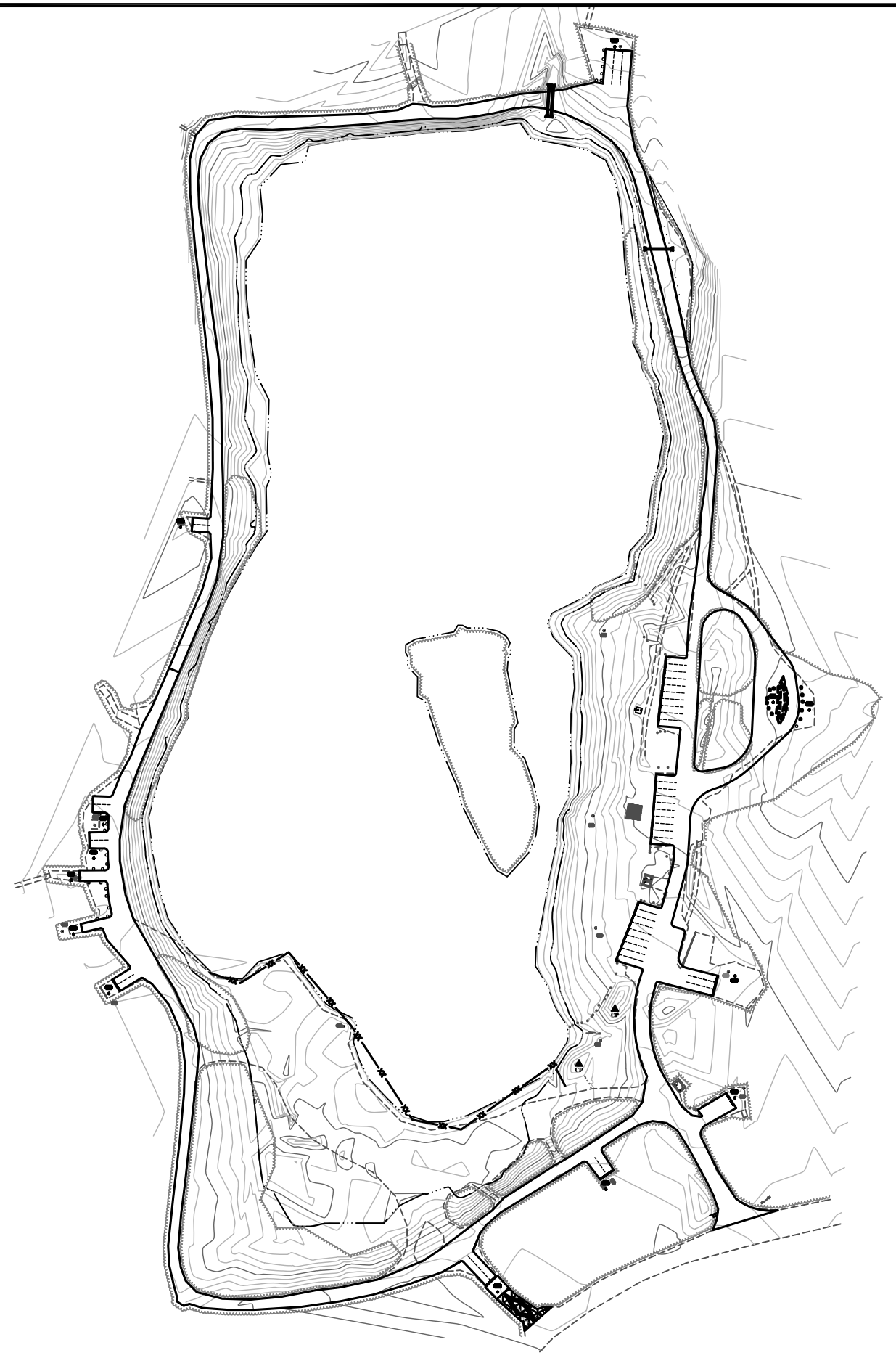
12. SLOPE PROTECTION MAY INCLUDE SLOPE ROUGHENING, TACKIFYING, EROSION CONTROL BLANKETS, SEEDING, ROCK LINING, OR OTHER METHODS APPROVED BY THE PROJECT ENGINEER.
13. ALL STOCKPILES OF ERODIBLE MATERIALS SHALL HAVE PERIMETER CONTROL IN PLACE.
14. ERODIBLE MATERIALS MAY NOT BE STOCKPILED WITHIN 100 FEET OF ORDINARY HIGH WATER.

ESCP LEGEND

SILT CURTAIN OR BMP DEVICE BY CONTRACTOR APPROVED BY ENGINEER



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

ESCP OLNES POND CAMPGROUND

LOWER CHATANIKA RIVER SRA
FACILITY IMPROVEMENTS
PROJECT No. 73035-3

ALASKA STATE PARKS

PREPARED: RCS
DRAWN:RCS
REVIEWED:LMR
DATE:7/18/2017

SHEET 2 OF 2 SHEETS

APPENDIX D
SPECIAL REPORTS

1. Soil or Special 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
MASTER MATERIAL CERTIFICATION LIST (MCL)

MATERIALS CERTIFICATION LIST

	Specifications	Construction			Design			Statewide	Manufacturer/ Remarks
		Approved Products List	Project Engineer	QA/Materials Engineer	Design Engineer	Bridge Engineer	Traffic Engineer	State Materials Engineer	
Project Name				LOWER CHATANIKA RIVER SRA FACILITY IMPROVEMENTS					
Project Number				73035-3					
Project Engineer Signature									
203 EXCAVATION AND EMBANKMENT									
Selected Material, Type A	703-2.07								
301 AGGREGATE BASE COURSE AND SURFACE COURSE									
Recycled Asphalt Material	703-2.01								
603 CULVERTS AND STORMDRAINS									
Bedding & Backfill	204-2.01								
Flexible Watertight Gasket	705-2.05								
Corrugated Steel Pipe	707-2.01								
Culvert Markers	603-2.01								
615 STANDARD SIGNS									
Shop Drawings	615-2.01								
Sheet Aluminum	730-2.01								
Reflective Sheeting	730-2.03								
Sign Posts	730-2.04								
618 SEEDING									
Seed Mix	Section 724								
Fertilizer	Section 725								
Mulch	727-2.01								
Water	712-2.01								

	Specifications	Construction			Design			Statewide	Manufacturer/ Remarks
		Approved Products List	Project Engineer	QA/Materials Engineer	Design Engineer	Bridge Engineer	Traffic Engineer	State Materials Engineer	
620 TOPSOIL									
Topsoil, Class B	Section 726								
641 EROSION, SEDIMENT, AND POLLUTION CONTROL									
SWPPP	641-2.01								
HMCP	641-2.02								
SPCC	641-2.03								
BMP Materials	641-2.05								
643 TRAFFIC CONTROL DEVICES									
Traffic Control Plan	643-1.03								
Traffic Control Devices	643-2.01								
650 PARK FACILITIES - GENERAL									
Concrete, Class A	Section 501								
Structural Steel	650-2.03								
Galvanizing	650-2.04								
Lumber									
Dimensional	650-2.05								
Rough Cut	650-2.05								
Treated Lumber									
Above Ground Applications	650-2.06								
Ground Contact Applications	650-2.06								
Recycled Plastic Lumber	650-2.07								
Fasteners	650-2.08								
Standard Park Padlock	650-2.09								
Paint									
Solid Oil Stain	650-2.10								
Semi-Transparent Oil Stain	650-2.10								
Clear Oil Stain	650-2.10								
Metal Primer Paint	650-2.10								
Enamel Paint	650-2.10								
Concrete Sealer	650-2.10								
Above Ground Preservative	650-2.10								
Below Ground Preservative	650-2.10								

	Specifications	Construction			Design			Statewide	Manufacturer/ Remarks
		Approved Products List	Project Engineer	QA/Materials Engineer	Design Engineer	Bridge Engineer	Traffic Engineer	State Materials Engineer	
End Cut Preservative	650-2.10								
Signs	650-2.11								
650(1) PICNIC TABLE									
Shop Drawing	650-2.12								
Steel Tie Down Cable	650-2.12								
Earth Driven Anchor	650-2.12								
650(4) ROUND FIREPIT									
Shop Drawing	650-2.13								
Aggregate Base Course, Grading D-1	Section 703								
650(18) PARKING BUMPER									
Shop Drawing	650-2.14								
Reinforcing Material	709-2.01								
650(21) BARRIER ROCK									
Barrier Rock	650-2.15								
650(32) FEE PAYMENT STATION									
Column Bases	650-2.18								
J Bolts with Nuts and Washers	650-2.18								
Reinforcing Material	650-2.18								
Plywood	650-2.18								
650(42) CAMPSITE MARKER									
Campsite Marker Sign	650-2.17								
654 CONCRETE VAULTED TOILET									
Shop Drawings	654-1.04								
Toilets	654-2.03								
Vaults	654-2.03								
Vault Liners	654-2.03								
Concrete Reinforcement	654-2.03								
Sealers and Curing Compounds	654-2.03								
Caulking, Adhesive, and Grout	654-2.03								
Hardware	654-2.03								
Paint	654-2.03								
Signs	654-2.05								
Padlock	654-2.06								
Bedding	654-2.07								