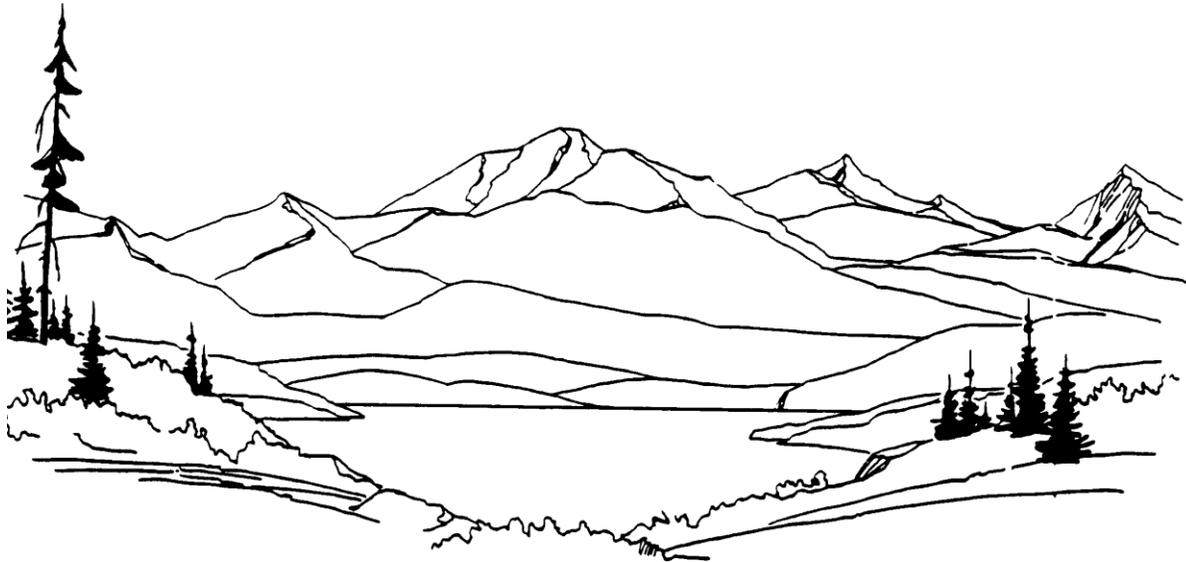


**STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES**

**DIVISION OF PARKS
AND
OUTDOOR RECREATION**



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

**POTTER MARSH
FACILITY IMPROVEMENTS
PROJECT NO. 91032-2**

COPY _____

TABLE OF CONTENTS

(Federal Aid)

1. Invitation

INVITATION TO BID 25D-07DNR (07/18, 01/19)
SPECIAL NOTICE TO BIDDERS

2. Bid Notices

REQUIRED DOCUMENTS 25D-04DNR (07/18, 01/19)
FEDERAL EEO BID CONDITIONS 25A-301DNR (01/02, 01/19)

3. Forms

SUBCONTRACTOR LIST 25D-05DNR (05/17, 01/19)
CONTRACTOR'S QUESTIONNAIRE 25D-08DNR (08/01, 01/19)
BID FORM 25D-09DNR (07/03, 01/19)
BID SCHEDULE (01/19)
CONSTRUCTION CONTRACT 25D-10HDNR (01/15, 01/19)
PAYMENT BOND 25D-12DNR (08/01, 01/19)
PERFORMANCE BOND 25D-13DNR (08/01, 01/19)
BID BOND 25D-14DNR (08/01, 01/19)
BID MODIFICATION 25D-16DNR (07/18, 01/19)
EEO-1 CERTIFICATION 25A-304DNR (01/02, 01/19)
MATERIAL ORIGIN CERTIFICATION 25D-60DNR (11/22)

4. Contract Provisions and Specifications

COMBINED STANDARD MODIFICATIONS AND SPECIAL PROVISIONS
APPENDIX A – PERMITS
APPENDIX B – SURVEY REQUIREMENTS
APPENDIX C – EROSION AND SEDIMENT CONTROL PLAN
APPENDIX D – MASTER MATERIALS CERTIFICATION LIST (MCL)
APPENDIX E – SPECIAL REPORTS

5. Federal Wage Rates

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

6. State Wage Rates

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



INVITATION TO BID
for Construction Contract

Date: February 12, 2026

Potter Marsh Facility Improvements, Project No. 91032-2

Project Name and Number

The Department invites bidders to submit bids for furnishing all labor, equipment, and materials and performing all work for the project described below. The Department will only consider bids received **before 2:00 PM local time (per the Department's time source) on the 5th day of March 2026**. On that date, the Department will assemble, open, and then publicly announce the timely-received bids at **550 W. 7th Avenue, Suite 1340; Anchorage, AK 99501**, at **2:15 PM**, or as soon thereafter as practicable.

Location of Project: 4525 Potter Valley Road Anchorage, AK 99516

Contracting Officer: Rys Miranda, P.E.

Issuing Office: DNR, Division of Parks and Outdoor Recreation

State Funded Federal Aid

Description of Work: Construction of stairs/ramp for skating access and a viewing boardwalk.

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

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

All work shall be completed in N/A Calendar Days, or by June 30, 2026. The Department will identify interim completion dates, if any, in the Special Provisions.

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

Submission of Bidding Documents

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

Bidding Documents for Project: Potter Marsh Facility Improvements Project No. 91032-2	ATTN: DNR, Division of Parks and Outdoor Recreation 550 W. 7th Avenue, Suite 1340 Anchorage, AK 99501
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It is incumbent upon the bidder to ensure its bid, any amendments, and/or withdrawal arrive, in its entirety, at the location and before the deadline stated above. A bidder sending a bid amendment or withdrawal via email or fax must transmit its documentation to the Department at this email address: rys.miranda@alaska.gov or fax number: (907) 269-8917.

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

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

NOTICE TO BIDDERS

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

SEE SPECIAL NOTICE TO BIDDERS

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

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

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

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

The point of contact for inquiries for this project is:

Rangell Soriano, P.E.
Email: rangell.soriano@alaska.gov
Phone: (907) 269-8937

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

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

Other Information:

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

SPECIAL NOTICE TO BIDDERS

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

1. Publications. The following are available from the Plans Room, download online, or as noted:
 - a. Standard Specifications for Highway Construction, 2020 Edition comb bound (\$25.00), download at: www.dot.state.ak.us/stwddes/dcsspecs/assets/pdf/hwyspecs/sshc2020.pdf, or order bound book from LuLu at: <https://www.lulu.com/en/us/shop/state-of-alaska-dept-of-transportation/2020-alaska-standard-specification-for-highway-construction/paperback/product-1qq9j9qk.html>.
 - b. Alaska Test Methods Manual (Lab & Field), May 19, 2025 Edition (\$25.00). Available online at: www.dot.state.ak.us/stwddes/desmaterials/mat_waqtc/testman.shtml.
 - c. Alaska Storm Water Pollution Prevention Plan Guide, March 2021. Available at: www.dot.state.ak.us/stwddes/desenviron/resources/stormwater.shtml.
2. Other Publications. These items are available upon request from the Department of Natural Resources, Division of Parks & Outdoor Recreation, Design & Construction Section at 550 West 7th Avenue, Suite 1340, Anchorage, AK:
 - a. Estimate of Quantity Computations.
 - b. Erosion, Sediment Control Plan (ESCP) in the appendix.
3. Materials Certification List (MCL). The MCL provides the Engineer with the appropriate approving authority. Contractor, submit certification for each material to the Engineer. The MCL is included in Appendix D.
4. Build America, Buy America Act. Effective for Federal award obligations after October 23, 2023, meet the requirements at 2 CFR 184 for construction materials.
5. COVID-19 Management Plan. The Governor's emergency declaration and mandates relating to COVID-19 expired on February 14, 2021. However, contractors are encouraged to review COVID-19 Response and Recovery Health Advisories that can be accessed at: <https://covid19.alaska.gov/health-advisories/>.

Contractors will still be required to meet any applicable local ordinances or requirements currently in effect, and comply with any future federal, state, or local declarations or mandates that might be adopted while work on the project is ongoing.

Consistent with Section 107-1.01 of the Standard Specifications for Highway Construction, the Contractor will be responsible for paying all costs and expenses incurred to comply with any COVID-19 Health Mandates or Health Advisories in effect during times when the Contractor is performing project-related work activities. The Contractor will additionally be responsible for preparing any general or site-specific mitigation and response plans required for its forces, along with any attendant schedule delays or impacts.

6. Electronic Bidding. The Department is not able to receive bids electronically. All bidding

documents must be submitted by mail or hand delivered. Documents shall be submitted in a sealed envelope.

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



STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

REQUIRED DOCUMENTS

Federal-Aid Contracts (Non-FHWA)

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

1. Bid Forms

- a. Bid Form (Form 25D-09DNR)
- b. Bid Schedule
- c. Bid Attachments (as applicable)
- d. Addenda Acknowledgement (as applicable)

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

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

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

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

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

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

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



STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

FEDERAL EEO BID CONDITIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

20. Goal and Timetable

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

ALASKA GOAL AND TIMETABLE FOR WOMEN*

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

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

ALASKA GOALS AND TIMETABLE FOR MINORITY UTILIZATION

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

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

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

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



STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

SUBCONTRACTOR LIST

Potter Marsh Facility Improvements, Project No. 91032-2

Project Name and Number

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

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

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

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

Or

List all first tier Subcontractors as follows:

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

CONTINUE SUBCONTRACTOR INFORMATION ON REVERSE

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

Signature of Authorized Company Representative

Title

Company Name

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

Date

Phone Number

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

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

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

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

C. EXPERIENCE

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

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

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

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

Name of Contractor **Name and Title of Person Signing**

Signature **Date**



STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

BID FORM

for

Potter Marsh Facility Improvements, Project No. 91032-2

Project Name and Number

by

Company Name

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

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

In compliance with your Invitation to Bid dated February 12, 2026, the Undersigned proposes to furnish and deliver all the materials and do all the work and labor required in the construction of the above-referenced Project, located at or near Anchorage, Alaska, according to the plans and specifications and for the amount and prices named herein as indicated on the Bid Schedule consisting of 2 sheets, which is made a part of this Bid.

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

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

The Undersigned agrees to commence the work within 10 calendar days, and to complete the work within N/A calendar days, after the effective date of the Notice to Proceed, or by June 30, 2026, unless extended in writing by the Contracting Officer.

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

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

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

NON-COLLUSION DECLARATION

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

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

Signature of Authorized Company Representative

Typed Name and Title

()

Phone Number

()

Fax Number

Email Address



STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

BID SCHEDULE

Project Name: Potter Marsh Facility Improvements

Project Number: 91032-2

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

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

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

Conditioned or qualified bids will be considered non-responsive.

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

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

Pay Item Number	Pay Item Description	Pay Unit	Quantity	Unit Bid Price	Amount Bid
***** BASIC BID *****					
201.0009.0000	CLEARING AND GRUBBING	L.S.	ALL REQ'D	\$ (LUMP SUM)	\$
505.0005.0000	FURNISH STRUCTURAL STEEL HELICAL PILE	L.F.	2,080	\$	\$
505.0006.0000	DRIVE STRUCTURAL STEEL HELICAL PILE	EACH	104	\$	\$
506.2001.0000	TIMBER VIEWING DECK - SUBSTRUCTURE	L.S.	ALL REQ'D	\$ (LUMP SUM)	\$
506.2001.0001	TIMBER VIEWING DECK - DECKING	S.F.	2,315	\$	\$
506.2001.0002	STAIRS	L.S.	ALL REQ'D	\$ (LUMP SUM)	\$
622.2006.0000	SPOTTING SCOPE	Each	1	\$	\$
622.2007.0000	ELP WALKWAY	S.F.	210	\$	\$

BID SCHEDULE
Potter Marsh
Facility Improvements
Project No. 91032-2

Name of Bidding Firm _____

Pay Item Number	Pay Item Description	Pay Unit	Quantity	Unit Bid Price	Amount Bid
***** CONTINUE BASIC BID *****					
622.2023.0000	RAILING	L.F.	687	\$	\$
622.2024.0000	CHAIN LINK GATE	L.S.	ALL REQ'D	\$ (LUMP SUM)	\$
622.2025.0000	INTERPRETIVE BRACKETS	Each	3	\$	\$
640.0001.0000	MOBILIZATION AND DEMOBILIZATION	L.S.	ALL REQ'D	\$ (LUMP SUM)	\$
641.0001.0000	EROSION, SEDIMENT, AND POLLUTION CONTROL ADMINISTRATION	L.S.	ALL REQ'D	\$ (LUMP SUM)	\$
641.0002.0000	TEMPORARY EROSION, SEDIMENT, AND POLLUTION CONTROL	C.S.	ALL REQ'D	\$ 10,000.00	\$ 10,000.00
641.0006.0000	WITHHOLDING	C.S.	ALL REQ'D	\$ 0.00	\$ 0.00
642.0001.0000	CONSTRUCTING SURVEYING	L.S.	ALL REQ'D	\$ (LUMP SUM)	\$
642.0003.0000	THREE PERSON SURVEY PARTY	HOUR	10	\$	\$
643.0001.0000	TRAFFIC MAINTENANCE	L.S.	ALL REQ'D	\$ (LUMP SUM)	\$
647.2002.0000	BACKHOE, 4WD, 1 CY BUCKET, 75 HP MIN.	C.S.	ALL REQ'D	\$ 5,000.00	\$ 5,000.00
TOTAL BASIC BID					\$

No: _____ Expires _____
Alaska Business License

No: _____ Expires _____
Alaska Contractor's License

BID SCHEDULE
Potter Marsh
Facility Improvements
Project No. 91032-2

Name of Bidding Firm _____



STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

CONSTRUCTION CONTRACT

Potter Marsh Facility Improvements, Project No. 91032-2

Project Name and Number

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

Company Name

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

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

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

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

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

The Contractor further covenants and agrees that all materials shall be furnished and delivered and all labor shall be done and performed, in every respect, to the satisfaction of the Department, on or before: June 30, 2026 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 **[Section 108-1.07]** dollars (\$ **[Section 108-1.07]**) per day for each calendar day elapsing between the time stipulated for the completion and the actual date of completion in accordance with the terms hereof; such deduction to be made, or sum to be recovered, not as a penalty but as liquidated damages.

The bonds given by the Contractor in the sum of \$ [100% of Contract] Payment Bond, and \$ [100% of Contract] Performance Bond, to secure the proper compliance with the terms and provisions of this Contract, are submitted herewith and made a part hereof.

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

CONTRACTOR

Company Name

Signature of Authorized Company Representative

Typed Name and Title

Date

(Corporate Seal)

**STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES**

Signature of Contracting Officer

Typed Name

Date



STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

PAYMENT BOND

Bond No. _____

For

Potter Marsh Facility Improvements, Project No. 91032-2

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

Potter Marsh Facility Improvements, Project No. 91032-2

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

Potter Marsh Facility Improvements, Project No. 91032-2

Project Name and Number

DATE BOND EXECUTED: _____

PRINCIPAL (Legal name and business address):

TYPE OF ORGANIZATION:

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

SURETY(IES) (Name and business address):

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

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

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

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

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

PRINCIPAL

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

Corporate Seal

See Instructions on Reverse

CORPORATE SURETY(IES)

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

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

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

INSTRUCTIONS

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



STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

EEO-1 CERTIFICATION
Federal-Aid Contracts

Potter Marsh Facility Improvements, Project No. 91032-2
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)

()

Phone Number

Date

Form 25D-60 Instructions:

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

SPECIAL PROVISIONS

to the

STATE OF ALASKA

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

POTTER MARSH

FACILITY IMPROVEMENTS

PROJECT NUMBER 91032-2

**SECTION 101
DEFINITIONS AND TERMS**

101-1.03 DEFINITIONS.

DEPARTMENT. Replace with the following: The Alaska Department of Natural Resources, Division of Parks and Outdoor Recreation.

(01/01/01)PARKS-Special Provision

ROADWAY. Replace with the following: The portion of a highway or facility including shoulders within the limits of construction.

(03/01/24)PARKS-Special Provision

SPECIAL PROVISIONS

Potter Marsh

Facility Improvements

Project No. 91032-2

**SECTION 102
BIDDING REQUIREMENTS AND CONDITIONS**

102-1.04 EXAMINATION OF PLANS, SPECIFICATIONS, SPECIAL PROVISIONS, AND WORK SITE. Add the following after the second paragraph: Material Reports and/or Soils Investigation Reports are found in Appendix D.

(01/01/05)PARKS-Special Provision

**SECTION 105
CONTROL OF WORK**

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

(01/01/01)PARKS-Special Provision

105-1.13 MAINTENANCE DURING CONSTRUCTION.

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

105-1.15 PROJECT COMPLETION.

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

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

CR105.6-23.0601

**SECTION 106
CONTROL OF MATERIALS**

106-1.01 SOURCE OF SUPPLY AND QUALITY REQUIREMENTS.

Add the following:

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

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

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

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

HSM20.20-21.1231

Replace the BUY AMERICA PROVISION with the following:

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

SPECIAL PROVISIONS

Potter Marsh

Facility Improvements

Project No. 91032-2

aware of a change from or error in a previously submitted Form 25D-60, the Contractor shall submit an updated Form 25D-60.

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

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

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

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

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

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

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

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

SPECIAL PROVISIONS

Potter Marsh

Facility Improvements

Project No. 91032-2

De Minimis amount:

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

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

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

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

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

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

Iron and Steel minimal use:

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

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

1. **Non-ferrous metals.** All manufacturing processes, from initial smelting or melting through final shaping, coating, and assembly, occurred in the United States.
2. **Plastic and Polymer-based products.** All manufacturing processes, from initial combination of constituent plastic or polymer-based inputs, or, where applicable, constituent composite materials, until the item is in its final form, occurred in the United States.

SPECIAL PROVISIONS

Potter Marsh

Facility Improvements

Project No. 91032-2

3. **Glass.** All manufacturing processes, from initial batching and melting of raw materials through annealing, cooling, and cutting, occurred in the United States.
4. **Fiber Optic Cable.** All manufacturing processes, from the initial ribboning (if applicable), through buffering, fiber stranding and jacketing, occurred in the United States. All manufacturing processes also include the standards for glass and optical fiber, but not for non-ferrous metals, plastic and polymer-based products, or any others.
5. **Optical Fiber.** All manufacturing processes, from the initial preform fabrication stage through the completion of the draw, occurred in the United States.
6. **Lumber.** All manufacturing processes, from initial debarking through treatment and planing, occurred in the United States.
7. **Drywall.** All manufacturing processes, from initial blending of mined or synthetic gypsum plaster and additives through cutting and drying of sandwiched panels, occurred in the United States.
8. **Engineered Wood.** All manufacturing processes from the initial combination of constituent materials until the wood product is in its final form, occurred in the United States.

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

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

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

HSP20.7A-23.1114

Replace Subsection 106-1.05 with the following:

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

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

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

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

HSP20.7A-23.1114

**SECTION 107
LEGAL RELATIONS AND RESPONSIBILITY TO PUBLIC**

107-1.02 PERMITS, LICENSES, AND TAXES.

The Department will: Add No. 3:

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

(03/01/24)PARKS-Special Provision

The Contractor shall:

Replace No. 1. with the following:

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

CR107.2-070121

Add No. 10:

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

CR107.5-120117R

107-1.07 ARCHAEOLOGICAL OR HISTORICAL DISCOVERIES.

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

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

CR107.3-051517

SPECIAL PROVISIONS

Potter Marsh

Facility Improvements

Project No. 91032-2

107-1.11 PROTECTION AND RESTORATION OF PROPERTY AND LANDSCAPE.

Add the following:

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

CR107.3-051517

Add the following:

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

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

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

CR107.1-100118

SPECIAL PROVISIONS

Potter Marsh

Facility Improvements

Project No. 91032-2

**SECTION 108
PROSECUTION AND PROGRESS**

108-1.01 SUBCONTRACTING OF CONTRACT.

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

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

HSM20.41-010122

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

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

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

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

CR108.4-010120

Add the following Subsection 108-1.011 Related Sections:

108-1.011 RELATED SECTIONS.

Section 652, Prosecution and Progress – Supplemental Requirements

CR108.3-012816R

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

Replace item 1. with the following:

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

(03/01/24)PARKS-Special Provision

SPECIAL PROVISIONS

Potter Marsh

Facility Improvements

Project No. 91032-2

108-1.07 FAILURE TO COMPLETE ON TIME.

Replace Table 108-1 with the following:

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

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

HSM20.43-070122

**SECTION 109
MEASUREMENT AND PAYMENT**

109-1.01 GENERAL.

Replace the 2nd paragraph with the following:

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

CR109.4-010120

109-1.02 MEASUREMENT OF QUANTITIES. Add the following:

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

(02/23/15)PARKS-Special Provision

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

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

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

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

CR109.2-110118

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

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

HSM20.3-113020R

SPECIAL PROVISIONS

Potter Marsh

Facility Improvements

Project No. 91032-2

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

120-1.01 DESCRIPTION.

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

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

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

HSM20.21-123121

SECTION 201 CLEARING AND GRUBBING

201-3.01 GENERAL.

Add the following:

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

Mechanical loading by the public is not permitted.

CR201.2-010114

Add the following:

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

CR201.3-042313

Add the following:

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

CR201.1-010114

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

(05/02/11)PARKS-Special Provision

SPECIAL PROVISIONS

Potter Marsh

Facility Improvements

Project No. 91032-2

201-5.01 BASIS OF PAYMENT.

Add the following:

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

CR201.2-010114

Add the following:

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

CR201.3-042313

Add the following:

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

(05/06/11)PARKS-Special Provision

**SECTION 505
PILING**

505-2.01 MATERIALS. Add the following:

Pile Caps, Helices	ASTM A 36
Cold Galvanizing Compound	Minimum zinc content of 95%, product shall be suitable for freshwater immersion
Structural Steel Helical Piles	ASTM A 53 Grade B

All pile material including steel piles, helices, pile bracing, and pile caps shall be hot-dip galvanized. Cold galvanizing compound is for field welding coating and is not a substitute for hot-dip galvanizing the piles.

(11/01/21)PARKS-Special Provisions

505-3.01 PILE DRIVING EQUIPMENT. Add the following: Use pile driving equipment capable of monitoring installation torque. Monitor and record torque readings during the entire pile installation process. The Contractor must provide a certified method for converting torque values to bearing capacity.

Helical pile shafts may be substituted with other shaft types upon approval by the Engineer. Substitution requests shall be submitted for review at least 30 days in advance to planned pile driving operations. Substituted shafts must meet the requirements of the Plans and Specifications. No substitutions are permitted without written approval.

Install couplers recommended by the pile manufacturer. Couplers shall be welded in place and painted with cold galvanizing compound as required. Welded splices will not be allowed prior to driving piles. Welded splices after pile driving are allowed only upon approval by the Engineer. Splices shall conform to the requirements of the American Welding Society (AWS) Structural Welding Code D1.1.

Helical piles damaged during installation shall be extracted and replaced with a new unit. Field repairs will not be allowed.

Pile Driving shall be done to protect the wetlands. In nonfrozen conditions, matting or other forms of protection to the environment shall be used, upon approval of the engineer.

505-3.03 DRIVING PILES. Add the following: Pile shall be driven to a minimum depth of 25 feet below original ground and to the minimum bearing capacity specified in the Plans.

(06/09/09)PARKS-Special Provisions

SPECIAL PROVISIONS

Potter Marsh
Facility Improvements
Project No. 91032-2

505-5.01 BASIS OF PAYMENT. Replace with the following:

Furnish Piles. The contract price includes pile material delivered to the site, helices, reinforcing tips, couplings, and casing. Unused pile lengths removed by cut-offs and fresh heading are subsidiary. Welding, paint, galvanization, pile records, and bolts will be considered subsidiary to other pay items in this section. Pile caps and bracing materials are subsidiary to Item 505.0005.0000.

Drive Piles. The contract price includes:

1. All related work required to drive the piles to the minimum penetration and driving resistance, including: pile crew time (including payroll and administrative additives), alternate methods, equipment costs, and other fixed or variable items incurred during pile driving, the construction of temporary work platforms, fresh heading, splicing, restrike, pile cleanout and cutting off.
2. All related work required to construct performed pile holes in locations identified in the Contract.

Payment will be made under:

PAY ITEM

Item Number	Item Description	Unit
505.0005.0000	Furnish Structural Steel Helical Pile	L.F.
505.0006.0000	Drive Structural Steel Helical Pile	Each

(01/29/21)PARKS-Special Provision

Replace Section 506 with the following:

SECTION 506 TIMBER STRUCTURES

506-1.01 DESCRIPTION. This work shall consist of furnishing, constructing, and completing installation of the timber viewing deck structure in conformance with the Plans and Special Provisions.

506-1.02 APPLICABLE ACCESSIBILITY STANDARD. Americans with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities.

506-1.03 SUBMITTALS AND SUBSTITUTIONS. Conform to Subsection 106-1.01.

MATERIALS

506-2.01 GENERAL. All materials shall be new and conform to the details shown on the Plans or as specified.

506-2.02 STRUCTURAL STEEL. Structural steel shall conform to the requirements of ASTM Specification A36 (Standard Specification for Carbon Structural Steel).

506-2.03 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).

506-2.04 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.

SPECIAL PROVISIONS

Potter Marsh
Facility Improvements
Project No. 91032-2

506-2.05 TREATED LUMBER. Wood species conforms to Subsection 506-2.04.

Treatment shall be as follows:

1. Above Ground Applications. Preservative pressure treatment shall conform to Section 714. Pressure treat with preservative Copper Azole – Type B or C (CA-B or C). Minimum retention shall be 0.15 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 Copper Azole – Type B or C (CA-B or C). Minimum retention shall be 0.31 pounds per cubic foot. Exposed treated materials shall be pigmented uniformly brown in color by manufacturer.

506-2.06 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.

506-2.07 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. Fasteners in pressure treated wood shall be hot-dip galvanized.

506-2.08 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.

SPECIAL PROVISIONS

Potter Marsh

Facility Improvements

Project No. 91032-2

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

506-2.09 TIMBER VIEWING DECK. All lumber shall be surfaced four sides and preservative pressure treated. Wood sills shall be pressure treated with water borne salts preservative with minimum retention of 0.15 pounds per cubic foot.

Steel connectors for wood construction shall be as follows:

1. Framing Angle. Galvanized framing angle fabricated of minimum 18 gage hot-rolled steel for connecting 2x12 joists and 4x6 joists to existing framing. Unit is a 2 – 1/4 inch by 6 – 3/8 inch or 2 – 1/4 inch by 4 – 7/8 inch skewable angle connector. Similar to Simpson LS70 for 12 inch joists or LS50 for 6 inch joists. Attach per manufacturer recommended fastener type and frequency.
2. Joist Hangers. Galvanized joist hanger fabricated of minimum 16 gage hot-rolled steel for connecting 2x12 joists and 4x6 joists to headers. Unit is a 1 – 9/16 inch by 7 – 13/16 inch or 3 – 9/16 inch by 4 – 7/8 inch joist hanger. Similar to Simpson U210 for 12 inch joists or U46 for 6 inch joists. Attach per manufacturer recommended fastener type and frequency.
3. Hurricane Strap. Galvanized twist strap fabricated of minimum 18 gage hot-rolled steel for connecting 2x12 joists to 4x12 beam. Unit is a 4 - 5/8 inch by 1 - 9/16 inch angle connector. Similar to Simpson H3. Attach per manufacturer recommended fastener type and frequency.
4. Hurricane Tie. Galvanized hurricane tie fabricated of minimum 18 gage hot-rolled steel for connecting 2x12 double rim joist to 4x12 beam. Unit is a 6 – 9/16 inch by 6 – 1/4 inch hurricane tie with a 3 – 1/8 inch opening. Similar to Simpson H10A-2. Attach per manufacturer recommend fastener type and frequency.

SPECIAL PROVISIONS

Potter Marsh
Facility Improvements
Project No. 91032-2

CONSTRUCTION REQUIREMENTS

506-3.01 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.

506-3.02 STRUCTURAL STEEL. Welding to conform to American Welding Society D1.1.

506-3.03 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.

SPECIAL PROVISIONS

Potter Marsh
Facility Improvements
Project No. 91032-2

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

2. Timber Viewing Deck.

- a. Wood, Visible surfaces and Between Decking. Semi-Transparent Oil Stain
- b. Non-Galvanized Metal. Primer and Enamel Paint
- c. Recycled Plastic Lumber. No Finish Required

3. Stairs.

- a. Wood, Visible surfaces and Between Decking. Semi-Transparent Oil Stain
- b. Non-Galvanized Metal. Primer and Enamel Paint
- c. Recycled Plastic Lumber. No Finish Required

506-3.04 TIMBER VIEWING DECK. Construct in accordance with the Plans.

506-4.01 METHOD OF MEASUREMENT.

Item 506.2001.0000 Timber Viewing Deck- Substructure shall not be measured directly for payment. The approved schedule of values and Engineer's approval shall constitute method of measurement. Lump sum price shall include all work necessary to furnish and metal beams, joists, trim, steel plates, blocking and all fasteners not paid for under other items in this Section.

Item 506.2001.0001 Timber Viewing Deck- Decking shall be measured by the square foot of horizontal deck surface constructed, completed, and accepted.

Item 506.2001.0002 Stairs shall not be measured directly for payment. The approved schedule of values and Engineer's approval shall constitute method of measurement. Lump sum price shall include all work necessary to furnish including stringers, connectors, hardware, and all other items.

506-5.01 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. ADA Accessible models of a park facility item will be compensated at the same unit price as the standard model.

SPECIAL PROVISIONS

Potter Marsh

Facility Improvements

Project No. 91032-2

All labor, materials, and equipment required to grade the trails to provide a smooth transition to the new deck shall be considered subsidiary to 506 items.

Payment will be made under:

PAY ITEM

Item Number	Item Description	Unit
506.2001.0000	Timber Viewing Deck – Substructure	L.S.
506.2001.0001	Timber Viewing Deck – Decking	S.F.
506.2001.0002	Stairs	L.S.

Replace Section 622 with the following:

SECTION 622

PARK FACILITIES

622-1.01 DESCRIPTION. This work shall consist of furnishing, constructing and placing park facilities and installation of Elevated Light Penetrating Walkways, Access Ramps, and Interpretive Brackets, in conformance with the Plans and Special Provisions.

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

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

622-1.04 DEFINITIONS.

1. Elevated Light Penetrating (ELP). Elevated steel structures supported by steel piling and consisting of a steel frame with fiberglass grating top surface.

MATERIALS

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

622-2.02 STRUCTURAL STEEL. Structural steel shall conform to the requirements of ASTM Specification A36 (Standard Specification for Carbon Structural Steel).

622-2.03 GALVANIZING. Conform to AASHTO M111/ASTM A123 (Standard Specification for Zinc [Hot-Dip Galvanized] Coatings on Iron and Steel Products), or AASHTO M232/ASTM A153 (Standard Specification for Zinc Coating[Hot-Dip] on Iron and Steel Hardware). Repair damaged galvanizing by using low melting point zinc repair rods in conformance with ASTM A780 (Standard Practice for Repair of Damaged and Uncoated Areas of Hot-Dip Galvanized Coatings).

622-2.04 STRUCTURAL ALUMINUM. Structural aluminum shall conform to the requirements of ANSI 6061-T6.

622-2.05 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

SPECIAL PROVISIONS

Potter Marsh

Facility Improvements

Project No. 91032-2

classification shall be Dressed (Surfaced) Lumber. Size classification shall be Nominal Size Designations of Boards, Dimension, and Timbers.

2. Rough Cut. Unless otherwise indicated, rough cut lumber and timbers are shown on the plans in actual dimensions, i.e.; 2"x4", indicating rough cut material. Use classification shall be Structural Lumber, No. 2 Grade or Better. Manufacturing classification shall be Rough Lumber. Size classification shall be Rough Dry Sizes.

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

Treatment shall be as follows:

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

622-2.07 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 brown, similar to the enamel paint color. Submit physical samples to the Engineer for Approval. If end cuts expose a different internal color of composite, paint ends with matching exterior paint.

622-2.08 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.

SPECIAL PROVISIONS

Potter Marsh

Facility Improvements

Project No. 91032-2

622-2.09 PAINT. Unless otherwise specified, use the following paint types and colors, or approved equals:

1. Solid Oil Stain. Exterior oil/alkyd flat finish stain, color “Russet”. DF7XX as manufactured by Fuller O’Brien / Devoe Products, 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. 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.
7. Below Ground Wood Preservative. Preservative with active ingredient of minimum 16 percent copper naphthenate (equivalent to minimum 2 percent metallic copper).
8. End Cut Preservative for Treated Wood. Brown preservative with active ingredient of minimum 10 percent copper naphthenate (equivalent to minimum 1 percent metallic copper). Color to match preservative pressure treatment color.

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

622-2.10 ELP WALKWAY. Conform to the plans and specifications.

622-2.11 FIBERGLASS GRATING. Corrosion resistant, slip resistant, fire retardant, minimum 60% open area, ADA compliant, pultruded fiberglass grating with UV protection. Fiberglass grating shall be 1 1/2 inch thick grating, dark grey in color, and have a maximum deflection of 0.223 inches when spanned 36 inches and loaded at 500 pounds per square feet. Attach grating to substructure w/ clips & stainless self drilling & tapping screws provided by manufacturer.

SPECIAL PROVISIONS

Potter Marsh
Facility Improvements
Project No. 91032-2

The following are approved manufacturers with product series:

1. Fibergrate Safe-T-Span
Industrial Grating Series I6010
5151 Beltline Rd.
Ste 1212 Dallas, TX 75254
<http://www.fibergrate.com>

2. Seasafe GatorDeck
GatorDeck Pultruded Grating Selection I-6010
209 Glaser Dr.
Lafayette, LA 70508
<http://www.seasafe.com>

3. McNichols Fiberglass Grating
Duragrid Series MS-I-6010
3400-B Industry Drive East
Fife, WA 98424
<http://www.mcnichols.com>

For other equal manufacturers, submit for approval by the Engineer.

622-2.12 INTERPRETIVE BRACKET. Paint steel brackets after fabrication. Provide one pin-in-head torque machine bolt driver per sign.

622-2.13 SPOTTING SCOPE. Public use commercial grade binoculars with weatherproof housing and base. Viewer head removable from column for storage by unlocking pedestal cap barrel lock. No coin chute shall be ordered or provided, special instructions must be given to manufacturer to set the scope to operate with coin chute removed. The binoculars shall have the following characteristics of the Model Mark III Binoculars as manufactured by See Coast Manufacturing Company, Inc. or approved equal:

Height	60 Inches
Weight	95 Pounds
Castings	356 Aluminum Alloy
Column	4-1/2 Inch Diameter Aluminum Stanchion
Base	ADA Compliant Dual Base
Binoculars Width	12 Inches
Binoculars Length	22 Inches
Housing Movement	360 ^o Rotation, 40 ^o Up, and 40 ^o Down
Power / Field of View	10X, 366' at 1,000 Yards
Coin Chute	None
Timing Mechanism	None
Color	Gray

SPECIAL PROVISIONS

Potter Marsh
Facility Improvements
Project No. 91032-2

See Coast Manufacturing Company, Inc., Fairhope, Alabama 36533, Telephone (800) 343-8882, (205) 928-8882, www.seecoast.com.

622-2.14 SHOP DRAWINGS. Submit shop drawings for the ELP walkway. Shop drawings shall include sufficient plan, elevation and section views necessary to identify the dimension and location of all components of design. Indicate all structural member, types, sizes, spacing, splices, welds, quantities, lengths, and connections. Include, dimensions, locations, and quantities of all external hardware including but not limited to fiberglass grating, fiberglass fasteners, hinges, handrails, guardrails, pile caps, lifting frame, and fasteners. Shop drawings must be drawn to scale using computer drafting software. Provide a list showing all materials to be incorporated into the work with exact quantities.

Submit shop drawings to the engineer for approval prior to beginning fabrication. Allow at least 7 days for the initial review and 7 days for each subsequent review of resubmitted drawings. Copying and resubmitting the provided plans will not be accepted as shop drawings.

622.2.15 CHAIN LINK GATE. Chain link gates shall be constructed from a 1-3/8" galvanized frame measuring 4' tall and 3.5' wide. Welds shall be painted with zinc-rich welders paint. 9-gauge chain link fabric shall be attached with aluminum tie wires at each horizontal rail connection and attached with tension bars and tension bands at gate uprights. Provide three standard Park padlock.

CONSTRUCTION REQUIREMENTS

622-3.01 GENERAL. The location shown on the drawings for park facilities placement are approximate. The Engineer will field locate park facilities at the time of construction. After construction survey layout, allow at least three days for any field adjustments.

622-3.03 WELDING. Conform to Structural Welding Code AWS D1.1 when welding all steel structures.

Perform Quality Control inspection necessary to ensure the materials and workmanship meets the requirements of the Contract documents. Use a CWI for welding inspection.

Correct deficiencies in materials and workmanship revealed by Quality Control and Quality Assurance inspections without additional compensation.

Furnish completed Quality Control inspection documents to the Engineer and to the Quality Assurance representative designated by the State (when designated).

622-3.04 STRUCTURAL STEEL. Welding to conform to American Welding Society D1.1. Piecemealing of steel components will not be accepted for payment. Metal components shall be continuous through the full length of each component to the extent possible in order to minimize the number of welds.

SPECIAL PROVISIONS

Potter Marsh
Facility Improvements
Project No. 91032-2

622-3.05 STRUCTURAL ALUMINUM. Welding to conform to American Welding Society D1.2. Piecemealing of aluminum components will not be accepted for payment. Metal components shall be continuous through the full length of each component to the extent possible in order to minimize the number of welds.

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

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

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

622-3.07 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.

SPECIAL PROVISIONS

Potter Marsh
Facility Improvements
Project No. 91032-2

- 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. Spotting Scope. Factory Applied Gray Enamel Finish
 3. ELP Walkway.
 - a. Wood. Semi-Transparent Oil Stain
 - b. Non-Galvanized Metal. Primer and Enamel Paint
 - c. Recycled Plastic Lumber. No Finish Required.
 4. Chain Link Gate
 - a. Brown vinyl-coated chain link fabric.

622-3.08 SPOTTING SCOPE. Install with in accordance with plans and manufacturer's recommendations. Use lag bolts to attach base to wooden boardwalk. Peen threading after installation.

622-3.09 ELP WALKWAY. Construct in accordance with the Plans and Specifications. Use mitered ends to join steel frame components together. Install fiberglass grating using stainless steel saddle type clips as recommended by the manufacturer.

622-3.10 RAILING. Construct in accordance with the Plans and Specifications.

622-3.11 INTERPRETIVE BRACKET. Construct in accordance with the Plans. Interpretive Signs shall be installed on recycled plastic lumber top railing. Each sign requires a total of (2) brackets. Final location shall be approved by the Engineer.

Work shall include installation of silhouettes that will be provided by the Department.

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

Item 622.0000.0000 - ELP Walkway will be measured by the square foot of horizontal deck surface constructed, completed and accepted.

Item 622.0000.0000 - Railing shall be measured by the linear foot along the top of handrail, from end to end of the handrail posts, completed and accepted. Unit price shall include all railing, handrail posts, and fasteners required to complete the work as shown on the Plans.

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

SPECIAL PROVISIONS

Potter Marsh
 Facility Improvements
 Project No. 91032-2

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

Item Number	Item Description	Unit
622.2006.0000	Spotting Scope	Each
622.2007.0000	ELP Walkway	SF
622.2023.0000	Railing	LF
622.2024.0000	Chain Link Gate	Each
622.2025.0000	Interpretive Bracket	Each

(02/3/20)PARKS-Special Provision

Replace Section 641 with the following:

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

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

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

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

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

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

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

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

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

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

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

SPECIAL PROVISIONS

Potter Marsh

Facility Improvements

Project No. 91032-2

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

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

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

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

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

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

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

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

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

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

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

SPECIAL PROVISIONS

Potter Marsh

Facility Improvements

Project No. 91032-2

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

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

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

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

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

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

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

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

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

SPECIAL PROVISIONS

Potter Marsh

Facility Improvements

Project No. 91032-2

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

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

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

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

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

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

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

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

Reference the SPCC Plan in the HMCP and ESCP.

SPECIAL PROVISIONS

Potter Marsh

Facility Improvements

Project No. 91032-2

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

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

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

1. Starting Construction.

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

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

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

2. During Construction.

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

SPECIAL PROVISIONS

Potter Marsh

Facility Improvements

Project No. 91032-2

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

If storm water discharges threaten water quality, take immediate action. Comply with the requirements of 18 AAC 70 State of Alaska Water Quality Standards, AS 41.14.870 Protection of Fish and Game, Section 404 of the CWA, and all other applicable federal, state, and local statutes and regulations.

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

3. Maintenance of BMPs.

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

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

4. Stabilization.

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

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

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.

SPECIAL PROVISIONS

Potter Marsh

Facility Improvements

Project No. 91032-2

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 a uniform mixture of water, seed, mulch and tackifier. If the project is located in an isolated community the hydro-seeder must be located at the project.

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

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

Stream By Pass.

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

Install temporary and permanent stabilization:

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

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

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

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

SPECIAL PROVISIONS

Potter Marsh

Facility Improvements

Project No. 91032-2

defects or reasons for a suspension, the corrective actions required to stop suspension, and the time allowed to complete corrective actions.

1. If the Contractor fails to take the corrective action within the specified time, the Project Engineer may:
 - a. Suspend the work until corrective action is completed;
 - b. Withhold monies due the Contractor until corrective action is completed;
 - c. Assess damages or equitable adjustments against the Contract Amount; and
 - d. Employ others to perform the corrective action and deduct the cost from the Contract amount.
2. Reasons for the Project Engineer to take action under this section include, but are not limited to, the Contractor's failure to:
 - a. Obtain appropriate permits before Construction Activities occur;
 - b. Maintain effective BMPs to control erosion, sedimentation, and pollution in accordance with the ESCP and applicable local, state, and federal requirements;
 - c. Perform duties according to the requirements of this Section 641; or
 - d. Meet requirements of permits, laws, and regulations related to erosion, sediment, or pollution control.

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

641-4.01 METHOD OF MEASUREMENT. Section 109.

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

The total value of this Contract will be adjusted as specified herein. Withholding will be determined by the Department and assessed under 641.0006.0000 Withholding as follows:

1. Fines and Penalties: A Price adjustment equal to any penalties and fines levied against the Department by local, state, or federal agencies for pollutant violations, including violations of the CWA, except when due to Department negligence. An amount equal to the anticipated penalties and fines for the violation or violations, excluding any due to negligence by the Department, will be withheld until the actual cost of the penalties and fines is known. Anticipated penalties and fines will be determined by the Project Engineer. The Contractor is also responsible for the payment of penalties and fines levied against the Contractor.
2. Failure to perform Corrective Action. By each 24 hour period following 24 hours after written notice by the Project Engineer, per occurrence, a price adjustment of \$750 will be assessed where the Contractor:

SPECIAL PROVISIONS

Potter Marsh

Facility Improvements

Project No. 91032-2

- fails to initiate corrective action to respond to a deficiency noted by the Project Engineer.

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

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

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

Item 641.0002.0000 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 ESCP and SPCC Plan.

Item 641.0006.0000 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 and any other Permit, except when due to the Department's sole negligence. The Contractor is also responsible for the payment of any and all penalties and fines levied against the Department or Contractor by entities (including agencies) other than the Department.

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

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

SPECIAL PROVISIONS

Potter Marsh

Facility Improvements

Project No. 91032-2

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

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

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

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

Payment will be made under:

PAY ITEM		
Item Number	Item Description	Unit
641.0001.0000	Erosion, Sediment and Pollution Control Administration	LS
641.0002.0000	Temporary Erosion, Sediment and Pollution Control	CS
641.0006.0000	Withholding	CS

(03/01/24)PARKS-Special Provision

SECTION 642
CONSTRUCTION SURVEYING AND MONUMENTS

642-1.01 DESCRIPTION. Add the following: Perform surveying and staking required for pile locations, pile-cutoff elevations, and boardwalk elevations.

642-3.01 GENERAL. Add No. 11:

11. Before pile driving activities, provide adequate staking to monitor pile location during pile driving activities. Stake the pile locations and reference offset stakes at 5 ft and 10ft, minimum. Maintain staking until the pile driving is completed.

(03/01/24)PARKS-Special Provision

SPECIAL PROVISIONS

Potter Marsh

Facility Improvements

Project No. 91032-2

Replace Section 643 with the following:

SECTION 643 TRAFFIC MAINTENANCE

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

643-1.02 DEFINITIONS.

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

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

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

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

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

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

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

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

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

SPECIAL PROVISIONS

Potter Marsh

Facility Improvements

Project No. 91032-2

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.

Potter Marsh Facility is a highly used area by local residents, school bus operations, recreational users, etc. Work shall not impede users of the area. Staging area shall be approved by the Engineer.

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.

SPECIAL PROVISIONS

Potter Marsh
Facility Improvements
Project No. 91032-2

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 643.0001.0000 Traffic Maintenance is a lump sum item and will not be measured directly for payment. The approved schedule of values and Engineer's approval shall constitute method of measurement.

643-5.01 BASIS OF PAYMENT. Item 643.001.0000 Traffic Maintenance will be paid for at the contract lump sum price. Payment shall be full compensation for all the labor, equipment, material, and incidentals necessary to complete the work under this Section.

Payment will be made under:

PAY ITEM

Item Number	Item Description	Unit
643.0001.0000	Traffic Maintenance	L.S.

(03/01/24)PARKS-Special Provision

SPECIAL PROVISIONS

Potter Marsh
 Facility Improvements
 Project No. 91032-2

SECTION 646 CPM SCHEDULING

Replace Subsection 646-2.01 with the following:

646-2.01 SUBMITTAL OF SCHEDULE.

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 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.

Replace the first sentence of No. 2 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.

CR646.1-23.0501

643-4.01 METHOD OF MEASUREMENT. CPM scheduling will not be measured for payment but will be subsidiary to other items.

Add the following Section:

SECTION 647 EQUIPMENT RENTAL

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

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

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

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

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

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

647-2.02 EQUIPMENT OPERATORS AND SUPERVISION PERSONNEL. Equipment operators shall be competent and experienced and shall be capable of operating the

SPECIAL PROVISIONS

Potter Marsh

Facility Improvements

Project No. 91032-2

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

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

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

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

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

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

647-4.01 METHOD OF MEASUREMENT. Section 109.

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

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

SPECIAL PROVISIONS

Potter Marsh
Facility Improvements
Project No. 91032-2

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

PAY ITEM

Item Number	Item Description	Unit
647.2002.0000	Backhoe, 4WD, 1 CY Bucket, 75-HP Minimum, 15 ft Depth	CS

CR647-110316R

Replace Section 651 with the following:

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

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

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

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

ALASKA DIGLINE, INC.

Locate Call Centers:

Anchorage	278-3121
Statewide	(800) 478-3121

Call Centers will notify the following:

- Alaska Communications Systems (ACS)
- Alaska Native Medical Center (ANMC)
- Alaska Railroad Corporation (ARRC)
- Anchorage School District (ASD)
- Anchorage Water & Wastewater Utility (AWWU)
- AT & T Alascom (AT&T)
- Chevron-Union Oil of California (UNOCAL)
- Chugach Electric Association (CEA)
- ConocoPhillips Alaska, Inc. (CPA)
- ENSTAR Natural Gas (ENS)
- GCI Communication Corp.
- Marathon Oil Company (MOC)
- Marathon Pipe Line LLC. (MARATHN)
- Municipality of Anchorage Signal & Street Maint.
- Municipal Light & Power (ML&P)
- State of AK, DOT/PF Anchorage Street Lights (DOT)
- Telalaska Inc. (Interior Phone, Eyecom TV & Mukluk Telecom)
- Tesoro Alaska (TESORO)
- United Utilities, Inc. (UNITED)

State Facility Utilities: before beginning work, contact the Central Region Maintenance & Operations Office at (907) 269-0760 to obtain the District Superintendent's phone number where the project is located, and request locates.

SPECIAL PROVISIONS

Potter Marsh
Facility Improvements
Project No. 91032-2

Replace Section 652 with the following:

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

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

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

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

- Replace the last sentence in the 1st paragraph with: "Submit the following at the Preconstruction Conference:"
- Replace No. 1 with: "A Critical Path Method (CPM) Schedule is required, in a format acceptable to the Engineer, showing the order the work will be carried out, and the contemplated dates the Contractor, subcontractors, and utilities will start and finish each of the salient features of the work, including scheduled periods of shutdown. Indicate anticipated hours of operations and periods of multiple shift work. Revise the proposed schedule promptly. Promptly submit a revised CPM Schedule if there are substantial changes to the schedule, or upon request of the Engineer."

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

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

652-1.05 FAILURE TO COMPLETE ON TIME. In Subsection 108-1.07:

- Add: "for each calendar day that the work remains incomplete after the expiration of the interim completion date(s) as set forth in Subsection 651-1.05 Interim Completion, the liquidated damages per day given in the table below shall be deducted from any monies due the Contractor."

SPECIAL PROVISIONS

Potter Marsh

Facility Improvements

Project No. 91032-2

APPENDIX A

PERMITS

PERMIT DESCRIPTION	ISSUE DATE	EXPIRE DATE
U.S. Army Permit NWP92: Recreational Facilities	02/10/2026	N/A
Office of History and Archeology A.S. 41.35.070 Review	02/10/2026	N/A



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

February 10, 2026

Regulatory Division
POA-2021-00475

Chester Fehrmann
550 W 7th Ave
Suite 1340
Anchorage, Alaska 99501

Dear Mr. Fehrmann:

This letter responds to your January 23, 2026, request for a Department of the Army (DA) permit for your proposal to install a 205 foot long 7-foot-wide boardwalk accessing a 20 foot by 19.5-foot viewing deck on 60 helical piles and a separate 78 foot 7-foot-wide elevated recreational access boardwalk for ice skaters secured by 14 helical piles. The access ramp at the end of the access path will be removed seasonally and gated. It has been assigned number POA-2021-00475, Potter Marsh, which should be referred to in all correspondence with us. The project site is located within Section 7, T. 11 N., R. 2 W., Seward Meridian; Latitude 61.0554° N., Longitude 149.7984° W.; in Anchorage, Alaska.

Based on our review of the information you provided, we have determined that although the subject property may contain waters of the United States (U.S.), including wetlands, your proposed project would not involve an activity we regulate. Therefore, a DA permit is not required. However, a permit may be required if you alter the method, scope, or location of your proposed work. You should contact us if you make changes to your project.

Section 404 of the Clean Water Act requires that a DA permit be obtained for the placement or discharge of dredged and/or fill material into waters of the U.S., including jurisdictional wetlands (33 U.S.C. 1344). The United States Army Corps of Engineers (USACE) defines wetlands as those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions.

Nothing in this letter excuses you from compliance with other Federal, State, or local statutes, ordinances, or regulations.

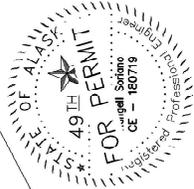
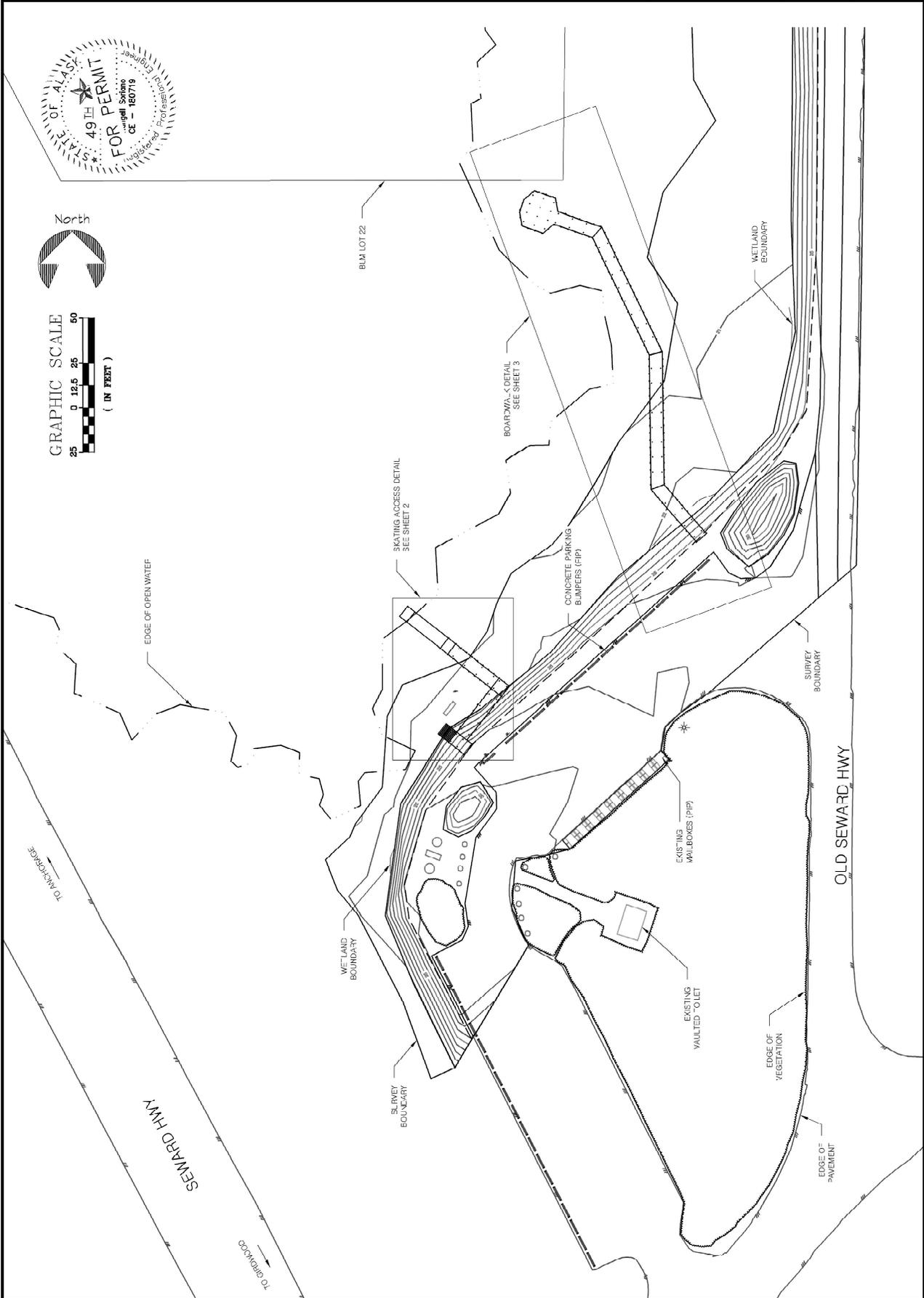
Please contact me via email at leah.barrettusace.army.mil, by mail at the address above, by phone at (907) 753-2760, or toll free from within Alaska at (800) 478-2712, if you have questions. For more information about the Regulatory Program, please visit our website at www.poa.usace.army.mil/Missions/Regulatory.

Sincerely,

Leah Barrett

Leah Barrett
Regulatory Specialist

Enclosures



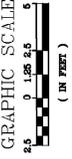
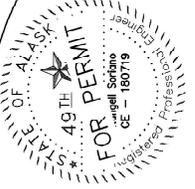
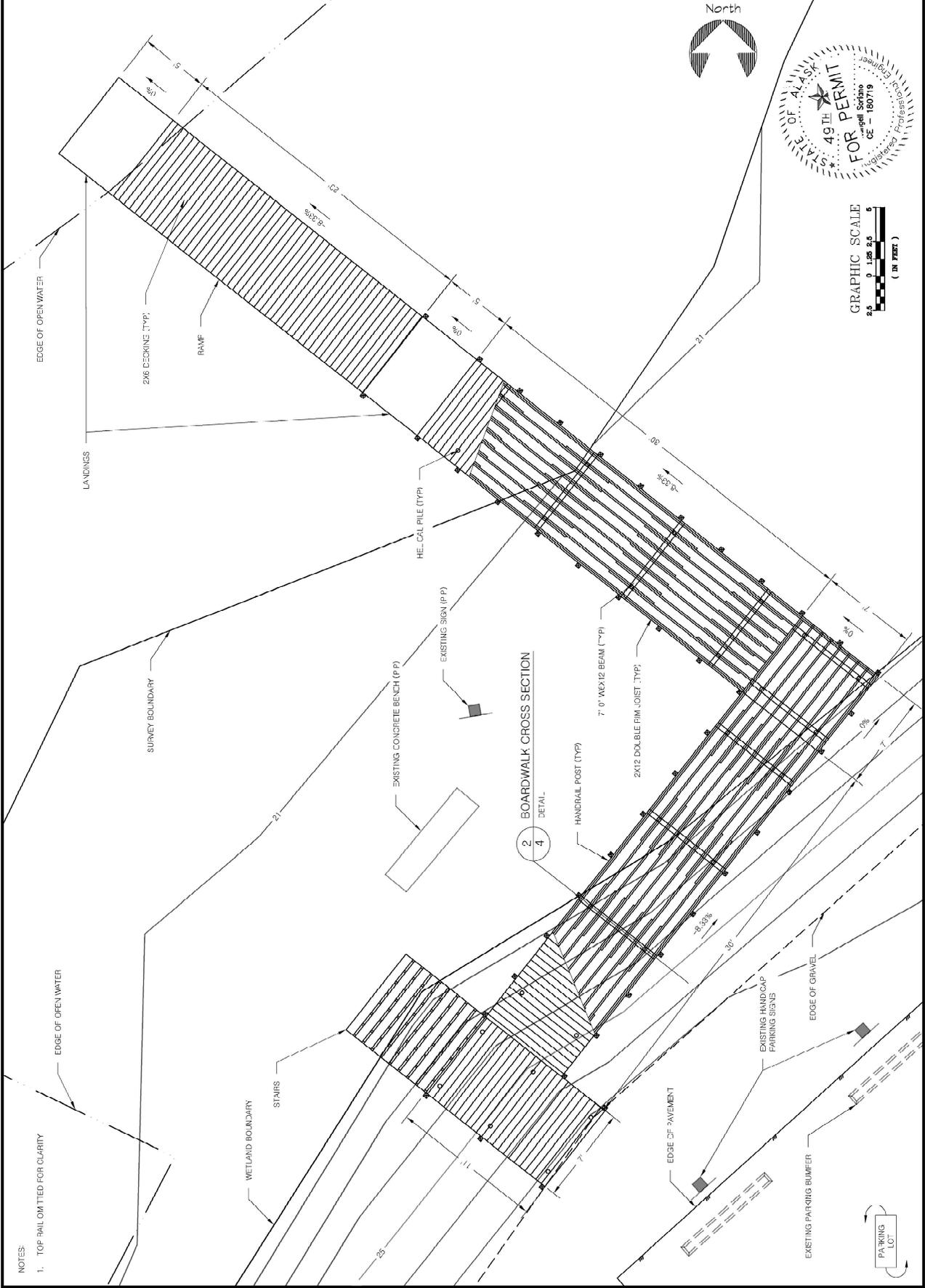
STATE OF ALASKA, DEPARTMENT OF NATURAL RESOURCES
 PLANS DEVELOPED BY: DIVISION OF PARKS AND OUTDOOR RECREATION
 650 W 7TH AVE, SUITE 1340, ANCHORAGE, AK 99501 - 907.269.8731

POTTER MARSH FACILITY IMPROVEMENTS
 PROJECT NO. 91032-2



PREPARED: AWH
 DRAWN: AWH
 REVIEWED: RCS
 DATE: VOY 2025

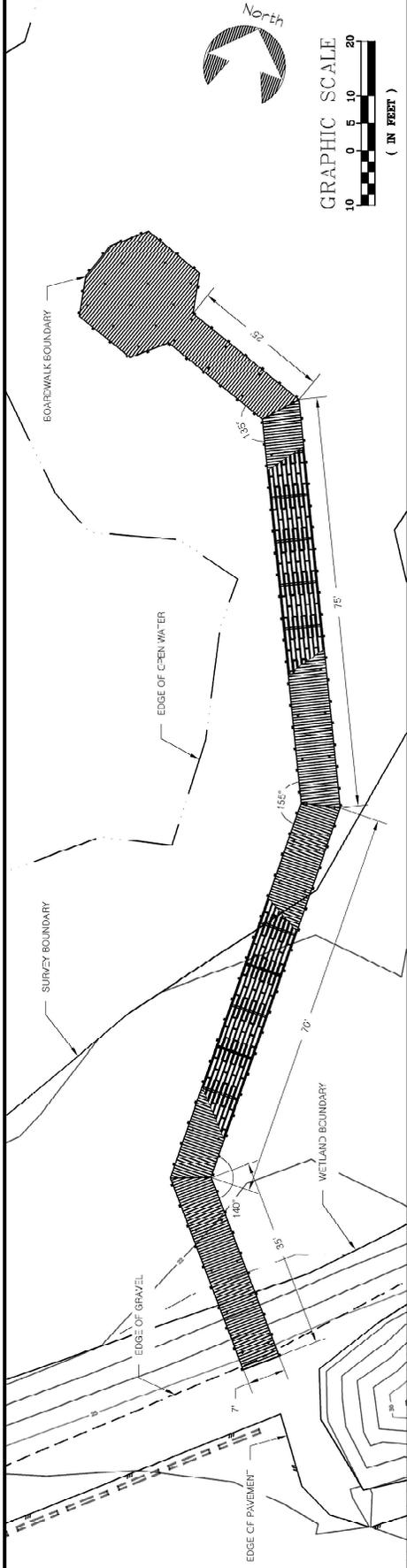
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 2
 OF 5 SHEETS



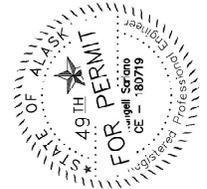
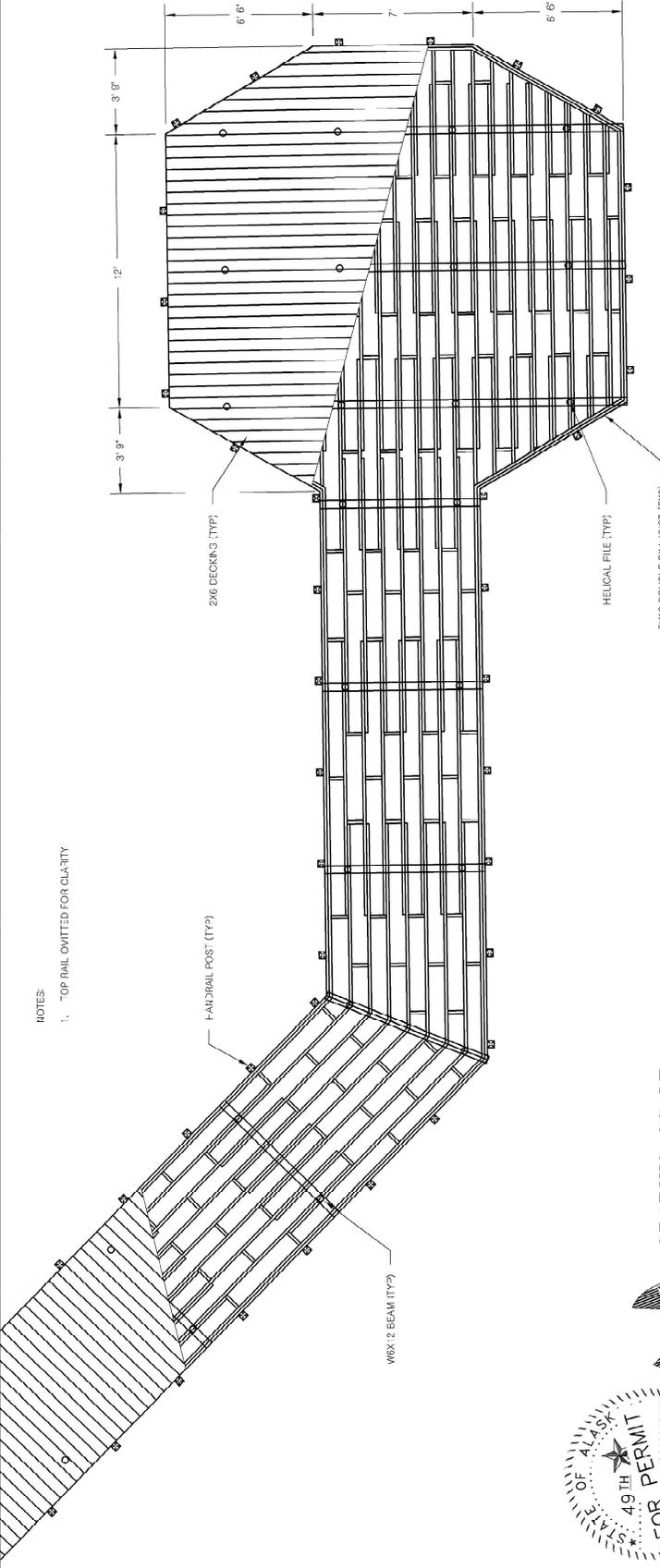
NOTES
 1. TOP RAIL OMITTED FOR CLARITY



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



NOTES:
1. TOP RAIL OMITTED FOR CLARITY



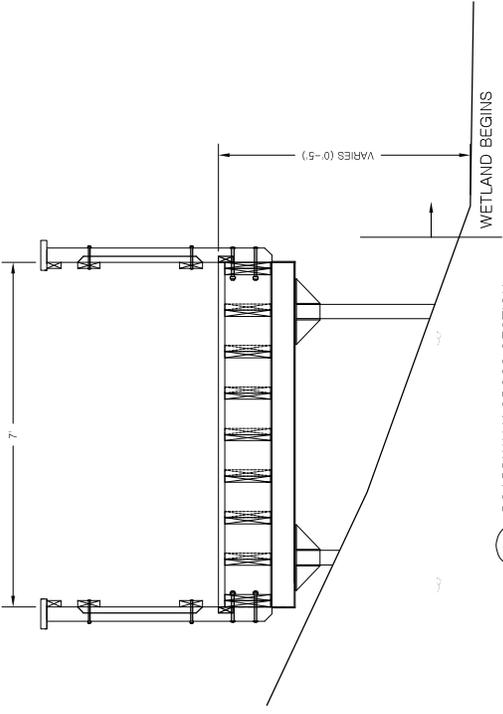
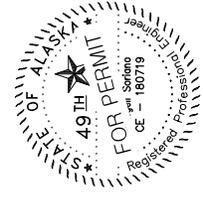


POTTER MARSH FACILITY IMPROVEMENTS
 PROJECT NO. 91032-2

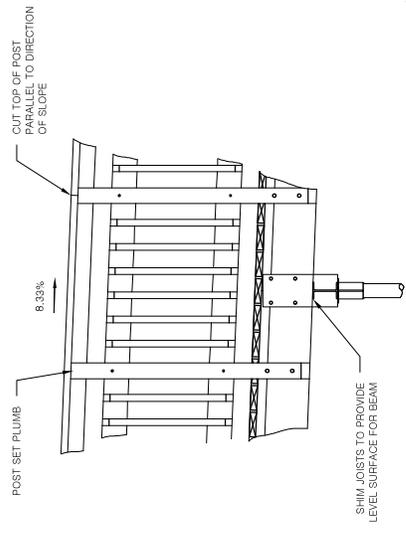
PREPARED: AWH
 DRAWN: AWH
 REVIEWED: RCS
 DATE: NOV 2025
 SHEET

4

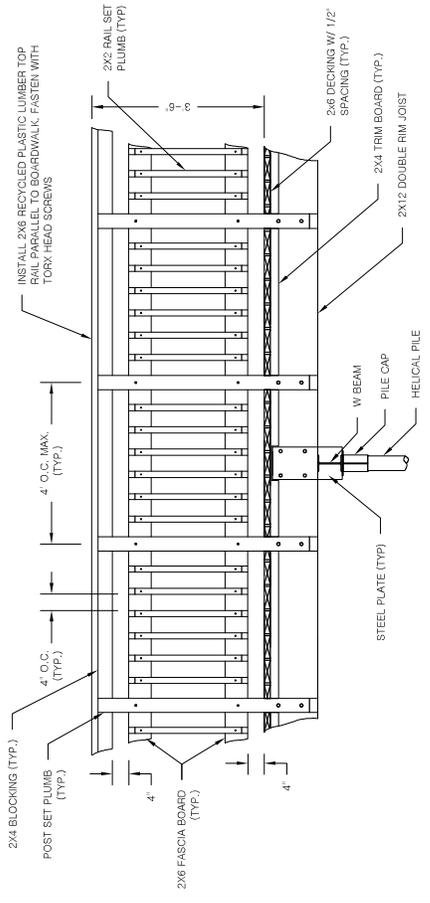
OF 5 SHEETS



2 BOARDWALK CROSS SECTION
 TYPICAL SECTION



3 RAMP SLOPE
 TYPICAL SECTION

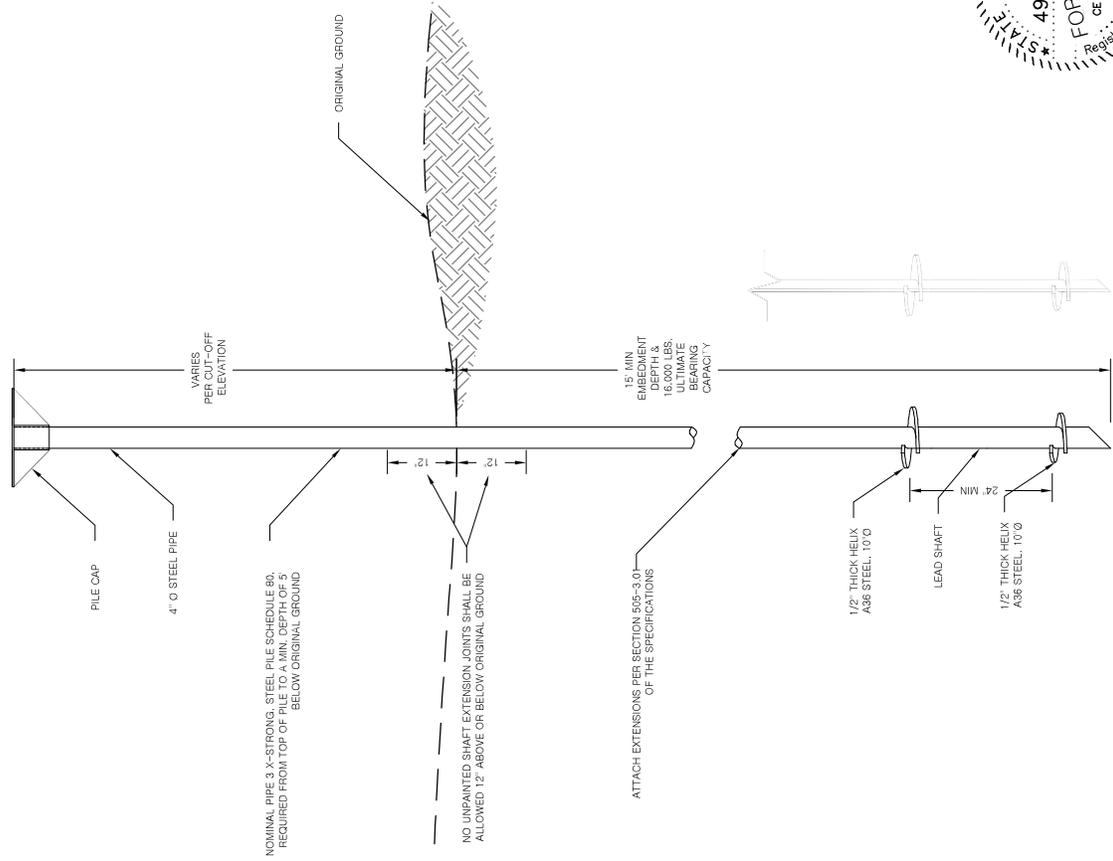
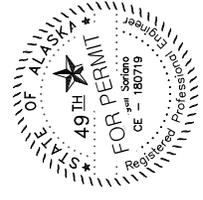


1 BOARDWALK HAND RAIL
 TYPICAL ELEVATION



PREPARED: AWH
 DRAWN: AWH
 REVIEWED: RCS
 DATE: SEPT 2025

SHEET
5
 OF 5 SHEETS



- NOTES:
1. TABLE SHOWS DATA FOR PILE LOCATION & FINISH FLOOR ELEVATIONS.
 2. THE PILE TOP FINISH ELEVATION SHALL BE AS SHOWN ON CONTROL POINTS.
 3. ELEVATION CONTROL BASED ON ASSUMED ELEVATION.
 4. THE PILE DESIGN LOADS (UNFACTORED)
 DEAD LOAD = 1.5 KRPS
 LIVE LOAD = 3.7 KRPS
 SNOW LOAD = 3.1 KRPS
 5. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF ACTUAL LOADS ARE
 GREATER THAN AS INDICATED.
 6. PILE DRIVER MUST BE APPROVED BY THE ENGINEER.
 7. THE PILE SHALL BE WELDED TO THE LEAD SHAFT IN ACCORDANCE WITH THE
 REQUIREMENTS OF THE AWS
 STRUCTURAL WELDING CODE, AWS D11, PUBLISHED BY THE AMERICAN
 WELDING SOCIETY.
 8. THE CONTRACTOR SHALL WAIT AT LEAST 72 HOURS AFTER PILE
 INSTALLATION BEFORE APPLYING LOADS ON THE PILE.
 9. THE PILE SHALL BE PENETRATED TO THE POINT OF ORIGINAL GROUND IS PEAT
 & THEREFORE HAS NO BEARING CAPACITY.
 10. SUBSTITUTED LEAD SHAFTS SHALL MEET OR EXCEED THE MINIMUM
 EMBEDMENT DEPTH AND ULTIMATE BEARING CAPACITY. REFER TO
 SECTION 505-3.01 OF THE SPECIFICATIONS.

Potter Marsh Facility Improvements Project Drone Imagery (8/20/2025) with Site Plan Overlay



North



SEWARD HIGHWAY
TO ANCHORAGE

OLD SEWARD HWY

OLD SEWARD HIGHWAY SPUR

From: [Sine, Mary M \(DNR\)](#)
To: [Fehrmann, Chester W \(DNR\)](#)
Cc: [Sine, Mary M \(DNR\)](#); [DNR, Parks OHA Review Compliance \(DNR sponsored\)](#)
Subject: RE: Potter Marsh Facility Improvements Project - Request for A.S. 41.35.070 Review
Date: Tuesday, February 10, 2026 3:40:10 PM
Attachments: [image001.png](#)
[image002.png](#)

File No. 3130-1R NRCS / 2025-01201

Good Afternoon Chet,

The Alaska State Historic Preservation Office (AK SHPO) received the original project information for Section 106 correspondence (dated December 16, 2025) on December 17, 2025 and the additional requested information on January 6, 2026, concerning the Potter Marsh Facility Improvements. Following our review of the documentation provided, we concur with the finding of No Historic Properties Affected.

This email serves as our office's official correspondence for the purposes of Section 106. Please note that our office may need to re-evaluate our concurrence if changes are made to the project's scope or design, or comments are received from other consulting parties. As stipulated in 36 CFR 800.3, other consulting parties such as the local government and Tribes are required to be notified of the undertaking. Our response does not end the 30-day review period provided to other consulting parties. Should unidentified cultural resources be discovered in the course of the project, work must be interrupted until the resources have been evaluated in terms of the National Register of Historic Places eligibility criteria (36 CFR 60.4), in consultation with our office. Please note that some sites can be deeply buried and that fossils are considered cultural resources subject to the Alaska Historic Preservation Act.

Thank you for the opportunity to comment. Please contact me if you have any questions or if we can be of further assistance.

Best,

Mary Sine (she/her) | Office of History and Archaeology

Natural Resource Specialist 2

Department of Natural Resources

Division of Parks and Outdoor Recreation

907.269.8749

AlaskaStateParks.org



From: Fehrmann, Chester W (DNR) <chester.fehrmann@alaska.gov>
Sent: Tuesday, February 10, 2026 2:00 PM
To: Sine, Mary M (DNR) <mary.sine@alaska.gov>
Subject: RE: Potter Marsh Facility Improvements Project - Request for A.S. 41.35.070 Review

Mary,

We're getting close with this project and I'm wondering if there's been any movement on the review?

As I don't have any involvement on where the funding comes from, ADNR-DPOR assumes that the agencies responsible for the 106 process take care of that responsibility (usually through their own process/historical professional) prior to issuing funding for projects. (I do, however, require documentation that the Alaska Statutory review is in our files prior to even advertising the projects for bid.)

If you could let me know a rough timeframe it would be appreciated- or if you need anything else please let me know as well!

Best,

Chet Fehrmann | Design and Construction
Environmental Impact Analyst III
Department of Natural Resources
Division of Parks and Outdoor Recreation
907.269.8506

AlaskaStateParks.org



From: Sine, Mary M (DNR) <mary.sine@alaska.gov>
Sent: Tuesday, December 30, 2025 4:45 PM
To: DNR, Parks OHA Review Compliance (DNR sponsored) <oha.revcomp@alaska.gov>; Fehrmann, Chester W (DNR) <chester.fehrmann@alaska.gov>

Subject: RE: Potter Marsh Facility Improvements Project - Request for A.S. 41.35.070 Review

File No. 3130-2R DPOR / 2025-01201

Hello Chet,

I'm working on finishing my review of the proposed elevated boardwalk at Potter Marsh South and was wondering which federal agency you are referring to concerning the federal funds and need to conduct Section 106 review. Can you tell me which agency is involved? Has that agency conducted their own Section 106 review? Can you let me know when you get a chance?

Thank you and Happy New Year!

Mary Sine (she/her) | Office of History and Archaeology

Natural Resource Specialist 2

Department of Natural Resources

Division of Parks and Outdoor Recreation

907.269.8749

AlaskaStateParks.org



From: DNR, Parks OHA Review Compliance (DNR sponsored) <oha.revcomp@alaska.gov>

Sent: Wednesday, December 17, 2025 11:27 AM

To: Fehrmann, Chester W (DNR) <chester.fehrmann@alaska.gov>

Cc: Sine, Mary M (DNR) <mary.sine@alaska.gov>

Subject: FW: Potter Marsh Facility Improvements Project - Request for A.S. 41.35.070 Review

Good morning.

The Office of History and Archaeology/Alaska State Historic Preservation Office received your documentation, and its review has been assigned to Mary Sine as ID No: 2025-01201. Our office has 30 calendar days after receipt to complete our review and may contact you if we require additional information.

Cheers.

Amy Hellmich | Office of History and Archaeology

Acting Review and Compliance Coordinator

Department of Natural Resources

Division of Parks and Outdoor Recreation

907.269.8724

AlaskaStateParks.org



From: Fehrmann, Chester W (DNR) <chester.fehrmann@alaska.gov>

Sent: Friday, December 12, 2025 11:24 AM

To: DNR, Parks OHA Review Compliance (DNR sponsored) <oha.revcomp@alaska.gov>

Subject: Potter Marsh Facility Improvements Project - Request for A.S. 41.35.070 Review

Hello,

ADNR-DPOR D&C is proposing to install an elevated boardwalk with viewing deck, and an elevated boardwalk with an access ramp at Potter Marsh South within the Anchorage Coastal Wildlife Refuge. Please find the request for review with associated maps and plans attached.

Feel free to reach out if there are any questions or concerns.

Thank you!

Chet Fehrmann | Design and Construction

Environmental Impact Analyst III

Department of Natural Resources

Division of Parks and Outdoor Recreation

907.269.8506

AlaskaStateParks.org



APPENDIX B

SURVEY REQUIREMENTS

1. Alaska Construction Surveying Requirements (US Customary Units)



**Alaska
Department of
Transportation
and
Public Facilities**

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

Alaska Construction Surveying Requirements (US Customary Units)

Table of Contents

Description	Page
1. Survey accuracy requirements	1
2. Survey frequency requirements	2
3. Typical section drawing	3
4. Survey point materials requirements	4
5. Typical alignment notes	5
6. Typical clearing notes	6
7. Typical level notes	7
8. Typical slope stake notes	8
9. Typical culvert notes	9
10. Typical culvert camber diagram	10
11. Typical blue or red tops and grade stake notes	11

1. Survey accuracy requirements

Third order survey

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

Table 1—Survey accuracy requirements (in feet)

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

* Third order survey

**Right angle prism or transit angles from center line

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

1. Survey frequency requirements

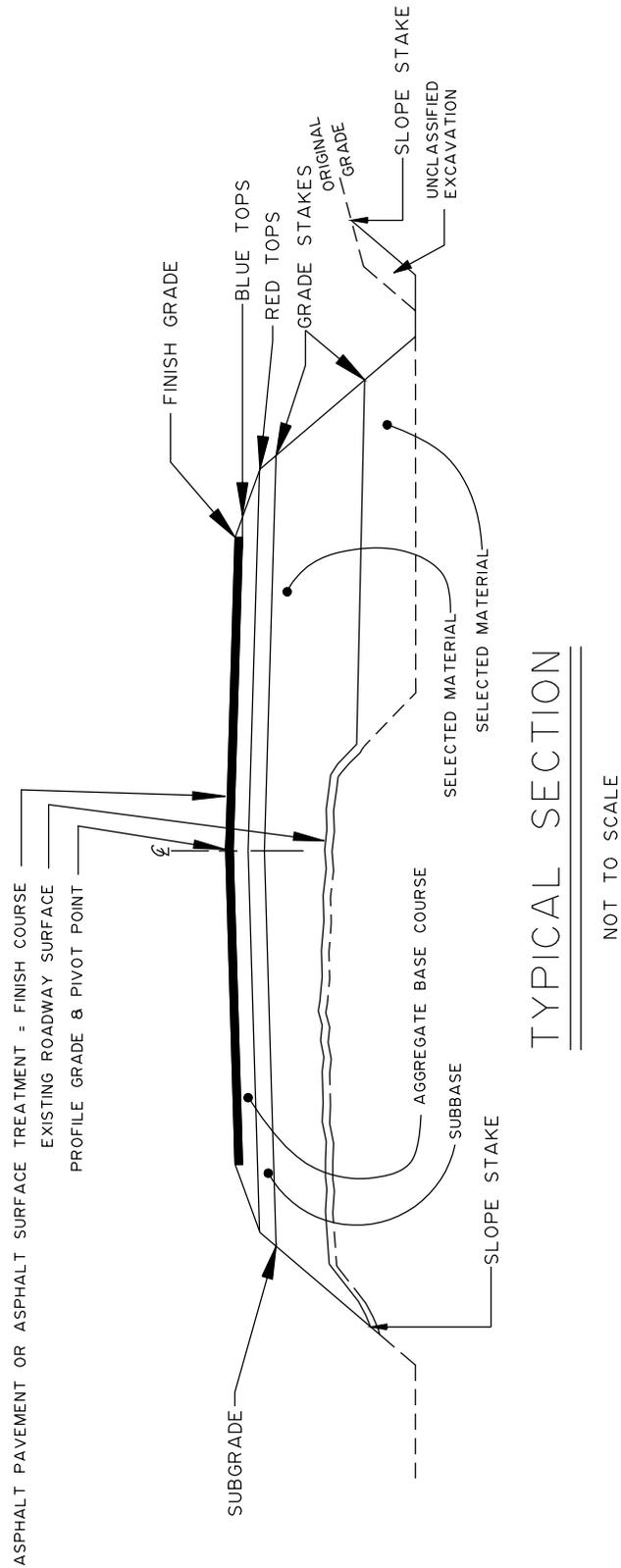
Table 2—Survey frequency requirements (in feet)

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

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

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

2. Typical Section Drawing



3. Survey point materials requirements

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

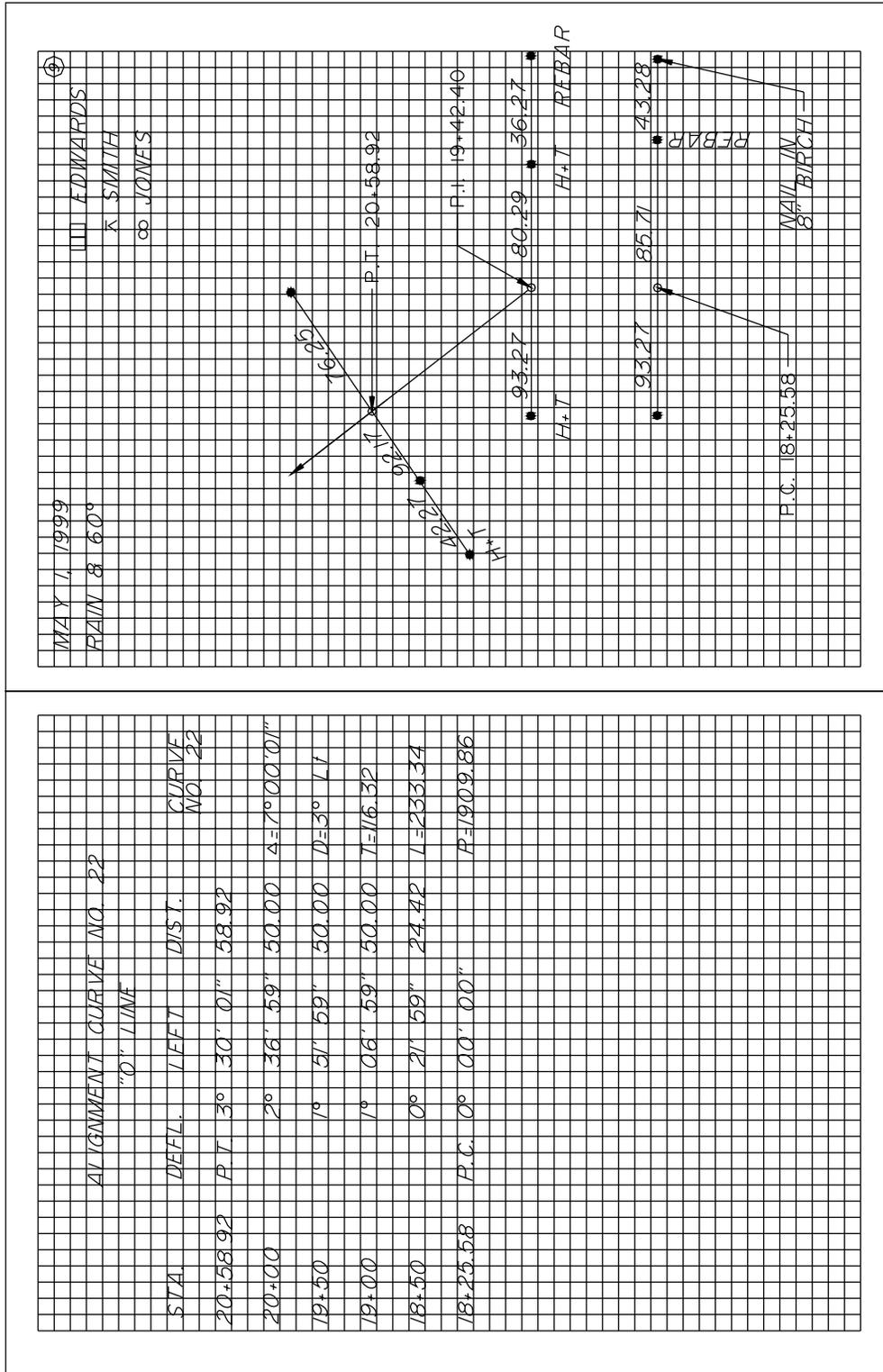
Table 3—Survey point materials requirements

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

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

4. Typical alignment notes

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



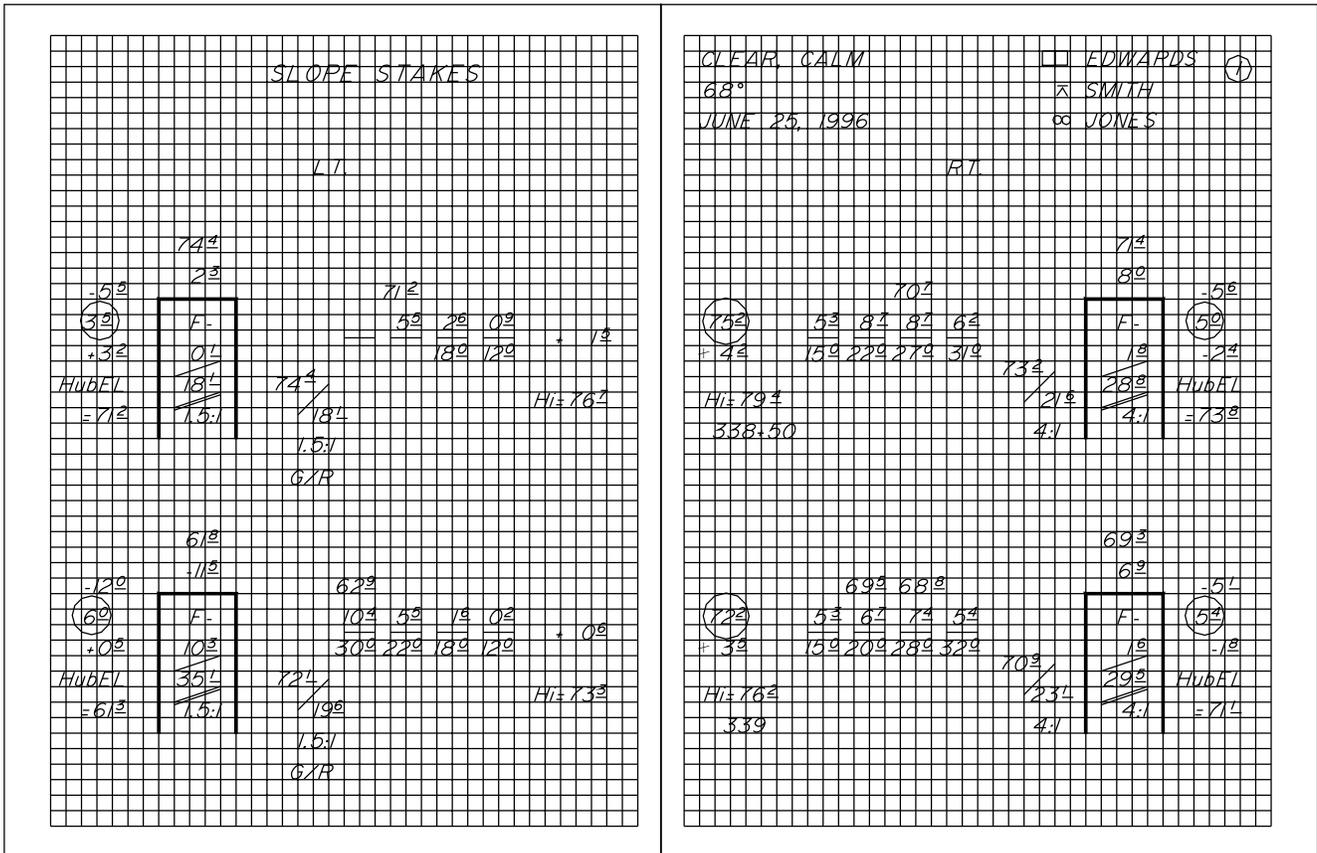
6. Typical level notes

- ✓ Balance back sights and foresights.
- ✓ Establish all benchmarks and take the centerline profile before doing any staking involving elevations.
- ✓ Don't set benchmarks in utility poles.
- ✓ Don't use side shots on benchmarks.
- ✓ Use the turn through method when establishing benchmarks.
- ✓ Re-check benchmarks after each major freeze/thaw cycle and/or any environmental event that may change the benchmark elevation.
- ✓ Do not use double rodding.
- ✓ Run separate level loops between all benchmarks.
- ✓ Set benchmarks in trees of at least six-inch diameter, unless approved by the Project Engineer.
- ✓ Correct errors in benchmark elevations so they will not affect the elevations of succeeding benchmarks.
- ✓ Consult with the Project Engineer before placing benchmarks in areas of permafrost or other unstable ground.
- ✓ Establish benchmarks at intervals and locations consistent with good engineering practice, and generally not more than 1000 feet.
- ✓ Completely describe benchmarks when establishing or re-establishing their elevation. Give centerline stationing, offset, benchmark projection, and observable benchmark characteristics. When checking into or out of benchmarks, note the book and page number that contains the most recent elevation establishment for that benchmark.
- ✓ Write the station on the top twelve inches facing centerline, with numerals a minimum of one inch in height.

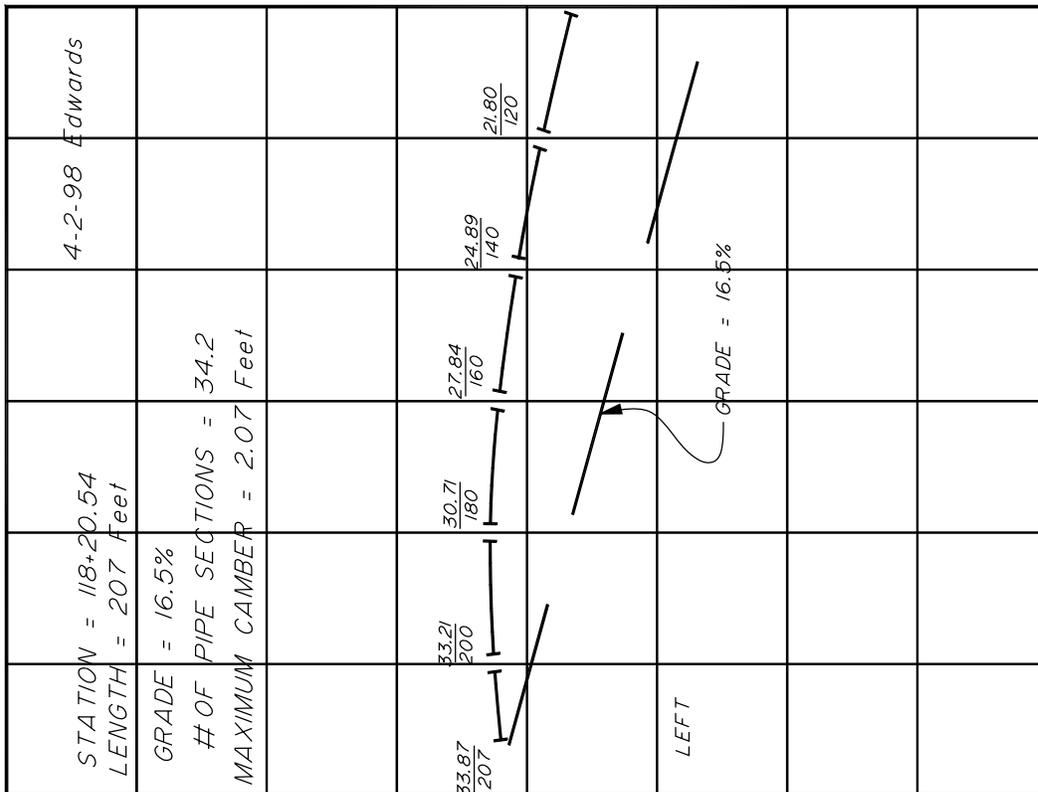
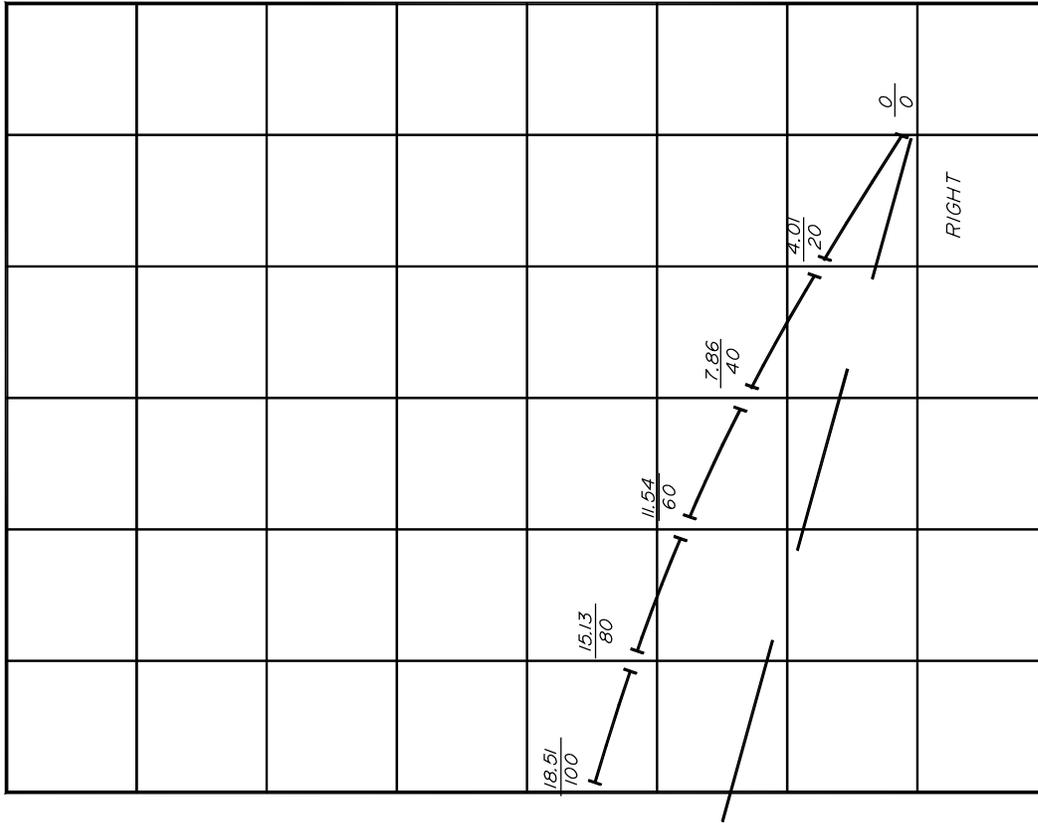
STA.	BS+	HI	FS-	ELEV.	45'± CLEAR WARM CALM			⊗ □	EDWARDS
					WILD 413579	3-23-90		+	SMITH
TBM #101				161.309					
6+72					Nail in base of 12" Spruce				
	3.877	165.186			85' 10" LT.				6+72
6+00			1.95	163.24					
6+25			2.32	162.87					
6+50			2.96	162.23					
T.P.			3.246	161.940					
	1.103	163.043							
6+75			2.31	160.73					
7+00			2.56	160.48					
T.P.			2.823	160.220					
	2.332	162.552							
					Nail in base of 18" stump				
TBM #102			1.143	161.409	60' 4" RT	7+21		Elev.	161.413

7. Typical slope stake notes

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

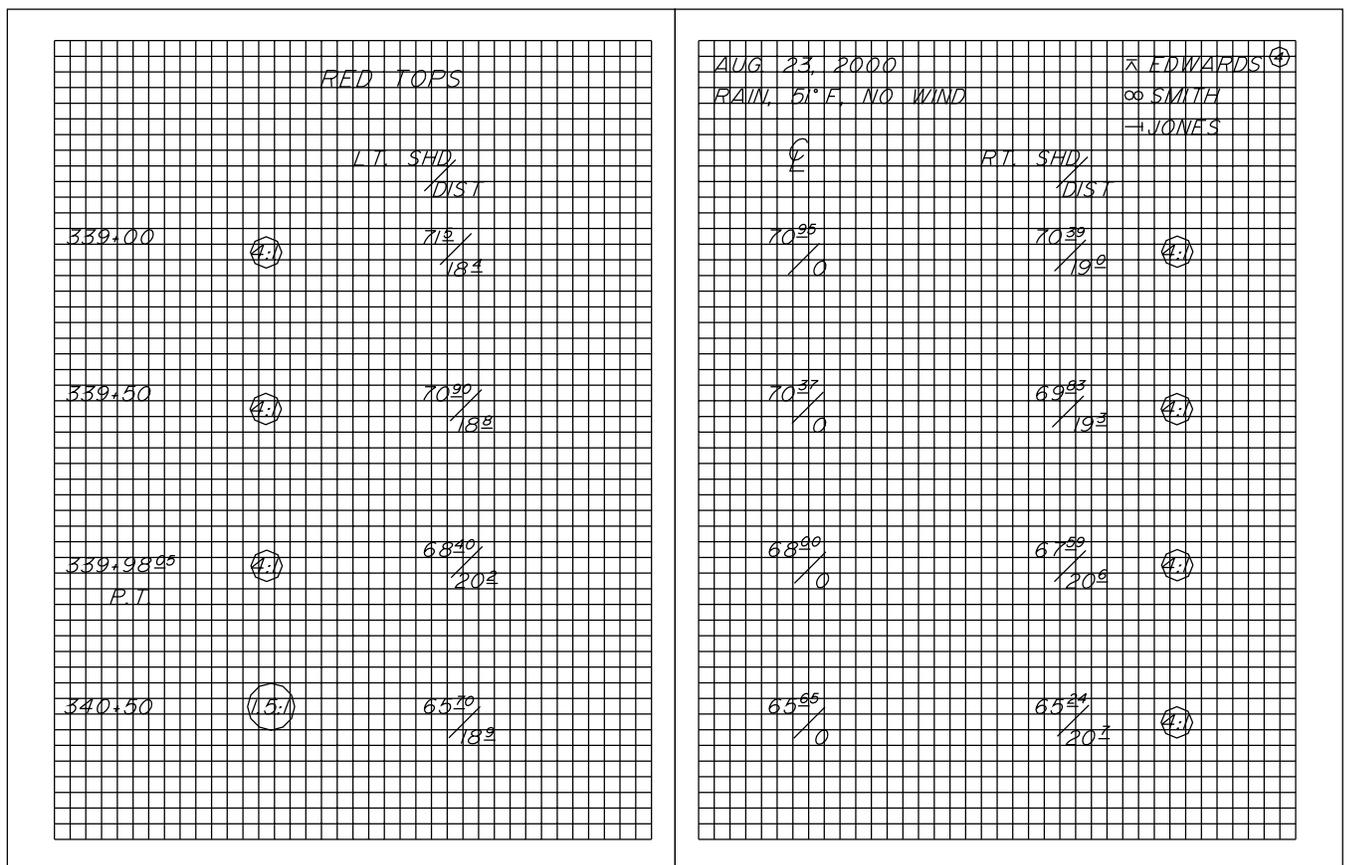


9. Typical culvert camber diagram



10. Typical blue or red tops and grade stake notes

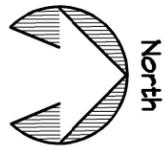
- ✓ Place blue and red tops at each break in typical section and on centerline.
- ✓ Use blue tops for top of base course.
- ✓ Use red tops for the bottom of the base course.
- ✓ Evenly space red/blue tops at and between crown section break points with a maximum spacing of 25 feet between red/blue tops.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



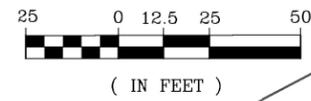
APPENDIX C EROSION AND SEDIMENT CONTROL PLAN (ESCP)

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

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



GRAPHIC SCALE



(IN FEET)

SITE DESCRIPTIONS

1. SITE FUNCTION: RECREATIONAL FACILITY
2. THIS PROJECT INCLUDES: RECONDITIONING PILE FOUNDATION INSTALLATION, CONSTRUCTION OF LIGHT-PENETRATING WALKWAY RIVER ACCESS STAIRS, PAVING, STRIPING, AND SIGNAGE
3. PROJECT AREA = 0.31 ACRES
4. PROJECT DISTURBED AREA = 0.31 ACRES
5. MATERIAL SITES: N/A

ENVIRONMENTAL INFORMATION

1. RECEIVING WATER BODIES: POTTER MARSH
2. IMPAIRED WATER BODIES: NONE
3. TOTAL MAXIMUM LOAD (TMDL) WATERS: N/A
4. THREATENED AND ENDANGERED SPECIES (ESA): NONE
5. HISTORIC IMPACTS: NONE KNOWN
6. MIGRATORY BIRD TREATY ACT: MAY 1-JULY 15
7. CONTACT THE PROJECT ENGINEER WITH ADDITIONAL QUESTIONS/CONCERNS REGARDING ENVIRONMENTAL MATTERS.

ASSUMED CONSTRUCTION SEQUENCE

1. IMPLEMENT ESCP/INSTALL BMPs
2. INSTALL PILES
3. CONSTRUCT ELEVATED LIGHT-PENETRATING WALKWAY AND RIVER ACCESS STAIRS
4. REMOVE BMPs

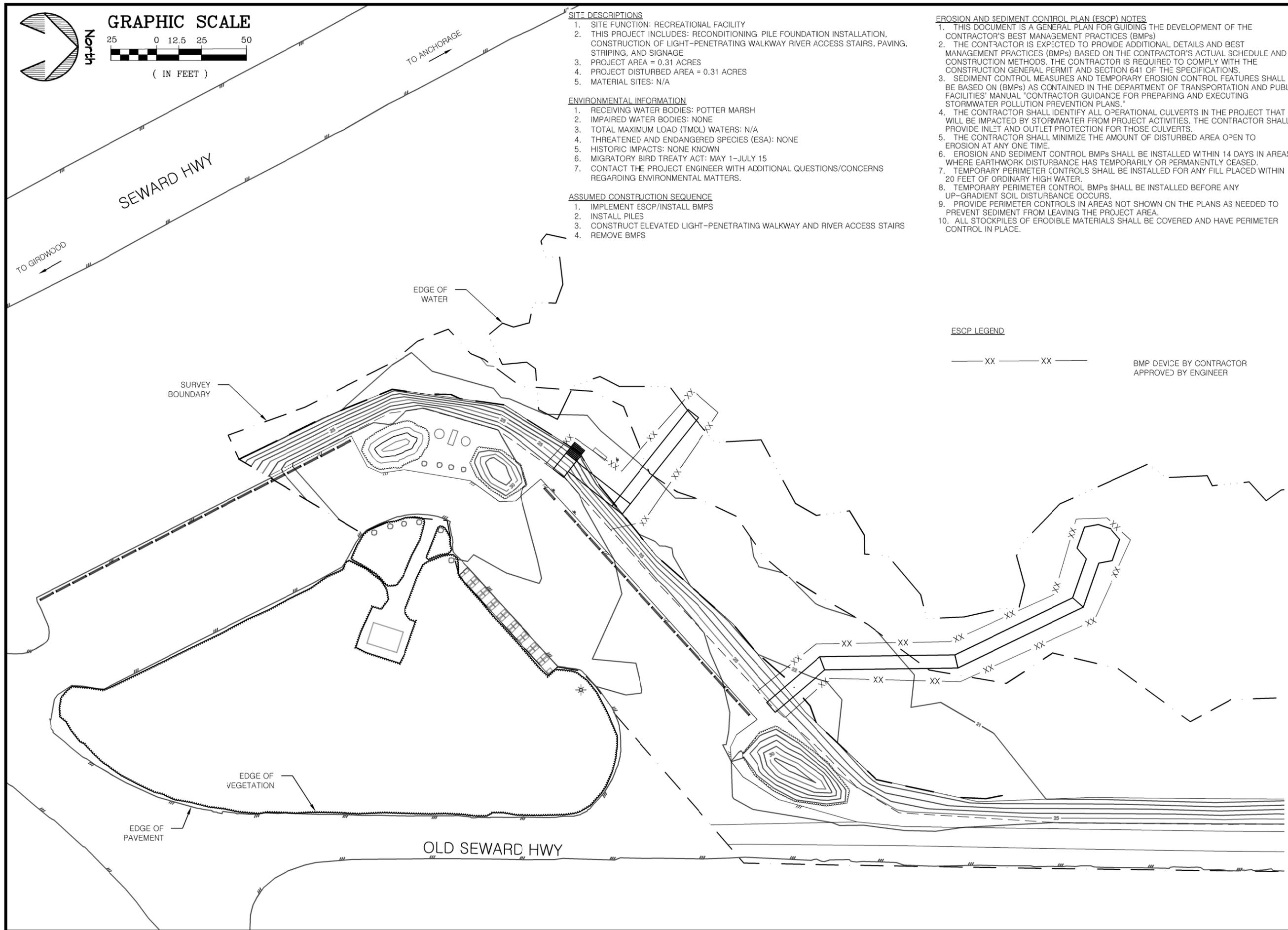
EROSION AND SEDIMENT CONTROL PLAN (ESCP) NOTES

1. THIS DOCUMENT IS A GENERAL PLAN FOR GUIDING THE DEVELOPMENT OF THE CONTRACTOR'S BEST MANAGEMENT PRACTICES (BMPs)
2. THE CONTRACTOR IS EXPECTED TO PROVIDE ADDITIONAL DETAILS AND BEST MANAGEMENT PRACTICES (BMPs) BASED ON THE CONTRACTOR'S ACTUAL SCHEDULE AND CONSTRUCTION METHODS. THE CONTRACTOR IS REQUIRED TO COMPLY WITH THE CONSTRUCTION GENERAL PERMIT AND SECTION 641 OF THE SPECIFICATIONS.
3. 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."
4. THE CONTRACTOR SHALL IDENTIFY ALL OPERATIONAL CULVERTS IN THE PROJECT THAT WILL BE IMPACTED BY STORMWATER FROM PROJECT ACTIVITIES. THE CONTRACTOR SHALL PROVIDE INLET AND OUTLET PROTECTION FOR THOSE CULVERTS.
5. THE CONTRACTOR SHALL MINIMIZE THE AMOUNT OF DISTURBED AREA OPEN TO EROSION AT ANY ONE TIME.
6. EROSION AND SEDIMENT CONTROL BMPs SHALL BE INSTALLED WITHIN 14 DAYS IN AREAS WHERE EARTHWORK DISTURBANCE HAS TEMPORARILY OR PERMANENTLY CEASED.
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-GRADE 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. ALL STOCKPILES OF ERODIBLE MATERIALS SHALL BE COVERED AND HAVE PERIMETER CONTROL IN PLACE.

ESCP LEGEND



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
 POTTER MARSH FACILITY IMPROVEMENTS
 PROJECT No. 91032-2

ESCP



PREPARED: AWH
 DRAWN: AWH
 REVIEWED: XXX
 DATE: OCT 2025

SHEET
1
 OF 1 SHEETS

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

MATERIALS CERTIFICATION LIST

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

Project Name POTTER MARSH FACILITY IMPROVEMENTS

Project Number 91032-2

Project Engineer Signature

505 PILING

Structural Steel Piles	715							
Helical Piles	505-2.01							
Pile Caps	505-2.01							
Cold Galvanizing Compound	505-2.01							
Pile Helices	505-2.01							
Pile Bracing	505-2.01							
Pile Driving Plan	505-3.01							
Galvanizing	505-2.02							
Welding Plan and Certs	504-3.01							

615 STANDARD SIGNS

Sheet Aluminum	615-2.02							
Reflective Sheeting	615-2.02							
<u>Sign Posts</u>								
Perforated Steel Posts	615-2.04							
Zinc Coating	615-2.05							
Custom Signs	615-2.01							
Shop Drawings	615-2.01							

618 SEEDING

Seed Mix	618-2.01							
Fertilizer	618-2.01							
Mulch	618-2.01							
Water	618-2.01							

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

622 PARK FACILITIES

Viewing Boardwalk

Structural Steel	650-2.05							
Galvanizing	650-2.06							
Treated Lumber	650-2.08							
Recycled Plastic Lumber	650-2.09							
Fasteners	650-2.11							
Paint	650-2.12							
Shop Drawings	650-2.27							
Welding Plan and Certs	650-2.27							

Interpretation Panel Supports

Structural Steel	650-2.05							
Fasteners	350-2.11							
Galvanizing	650-2.06							
Paint	650-2.12							
Shop Drawings	650-2.27							

Water Access Stairs and Ramp

Structural Steel	650-2.05							
Galvanizing	650-2.06							
Treated Lumber	650-2.08							
Recycled Plastic Lumber	650-2.09							
Fasteners	650-2.11							
Paint	650-2.12							
Shop Drawings	650-2.27							
Welding Plan and Certs	650-2.27							

641 EROSION, SEDIMENT, AND POLLUTION CONTROL

Erosion and Sediment Control Plan

641-2.01								
----------	--	--	--	--	--	--	--	--

Hazardous Materials Control Plan

641-2.02								
----------	--	--	--	--	--	--	--	--

Spill Protection, Control, and Countermeasure Plan

641-2.03								
----------	--	--	--	--	--	--	--	--

BMPs

729-2.04								
----------	--	--	--	--	--	--	--	--

643 TRAFFIC MAINTENANCE

TCP

643-1.03								
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TCP Devices

643-2.01								
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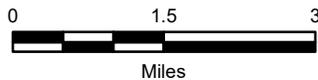
APPENDIX E

SPECIAL REPORTS

1. Excerpts from the “Geotechnical Engineering Report - Potter Marsh Geotechnical Investigations”



Map adapted from files provided by the Alaska Department of Natural Resources



Potter Marsh Geotechnical Investigations
Anchorage, Alaska

VICINITY MAP

August 2024

113016-001

SHANNON & WILSON, INC.
GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

FIG. 1



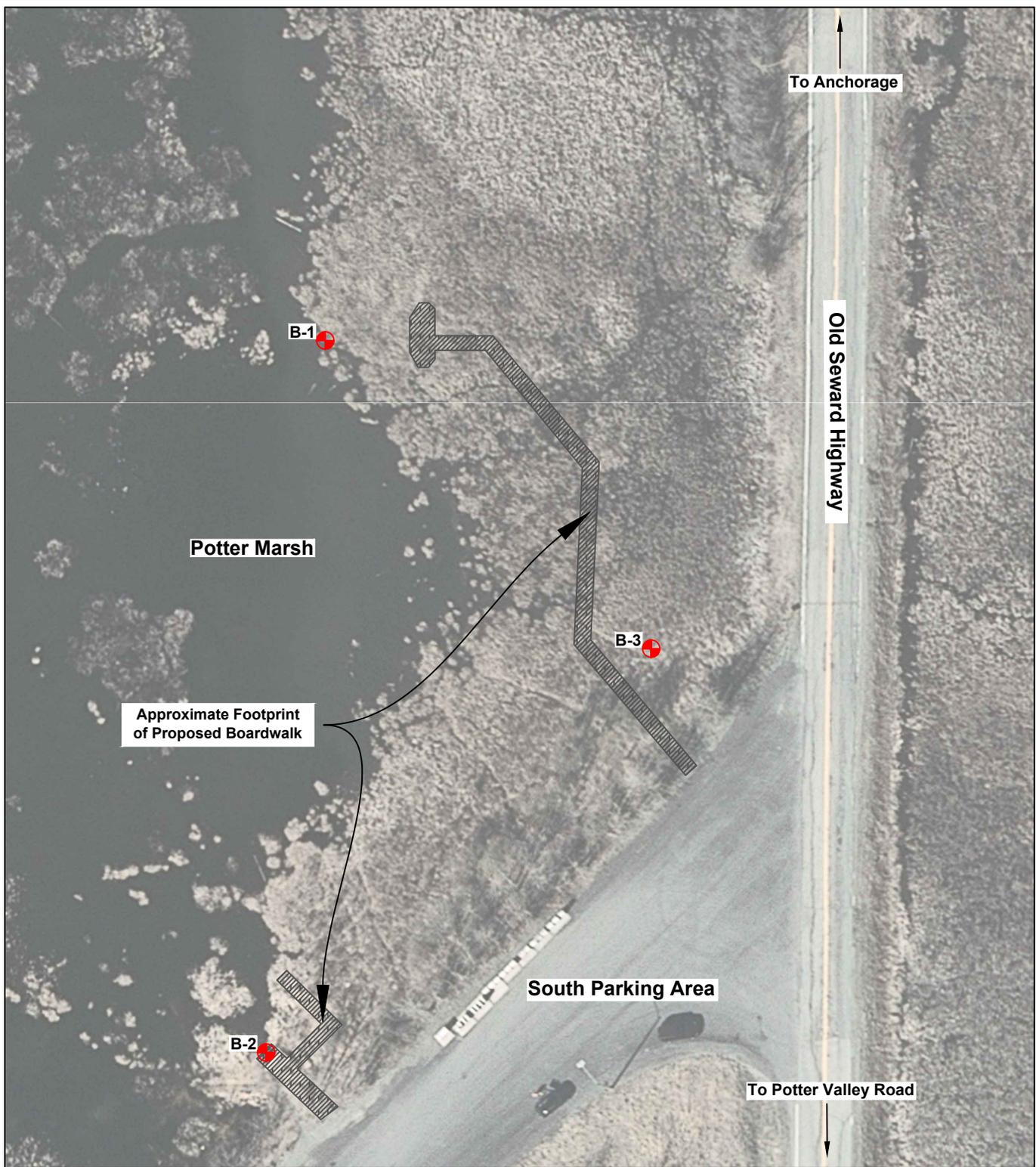
Potter Marsh Geotechnical Investigations
Anchorage, Alaska

SITE PLAN

August 2024

113016-001



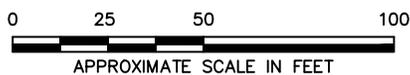


LEGEND

B-1 Approximate Location of Boring B-1, Advanced by Shannon & Wilson April 2024.

NOTES

1. Aerial Imagery provided courtesy of the Municipality of Anchorage. Image date: November 2015



Potter Marsh Geotechnical Investigations
Anchorage, Alaska

**SITE PLAN -
SOUTH BOARDWALK
IMPROVEMENTS**

August 2024

113016-001



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Geotechnical and Environmental Consultants

FIG. 2
Sheet 2 of 3

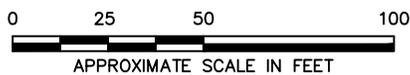


LEGEND

 B-4 Approximate Location of Boring B-4, Advanced by Shannon & Wilson April 2024.

NOTES

1. Aerial Imagery provided courtesy of the Municipality of Anchorage. Image date: November 2015



Potter Marsh Geotechnical Investigations
Anchorage, Alaska

**SITE PLAN -
NORTH BOARDWALK
EXTENSION**

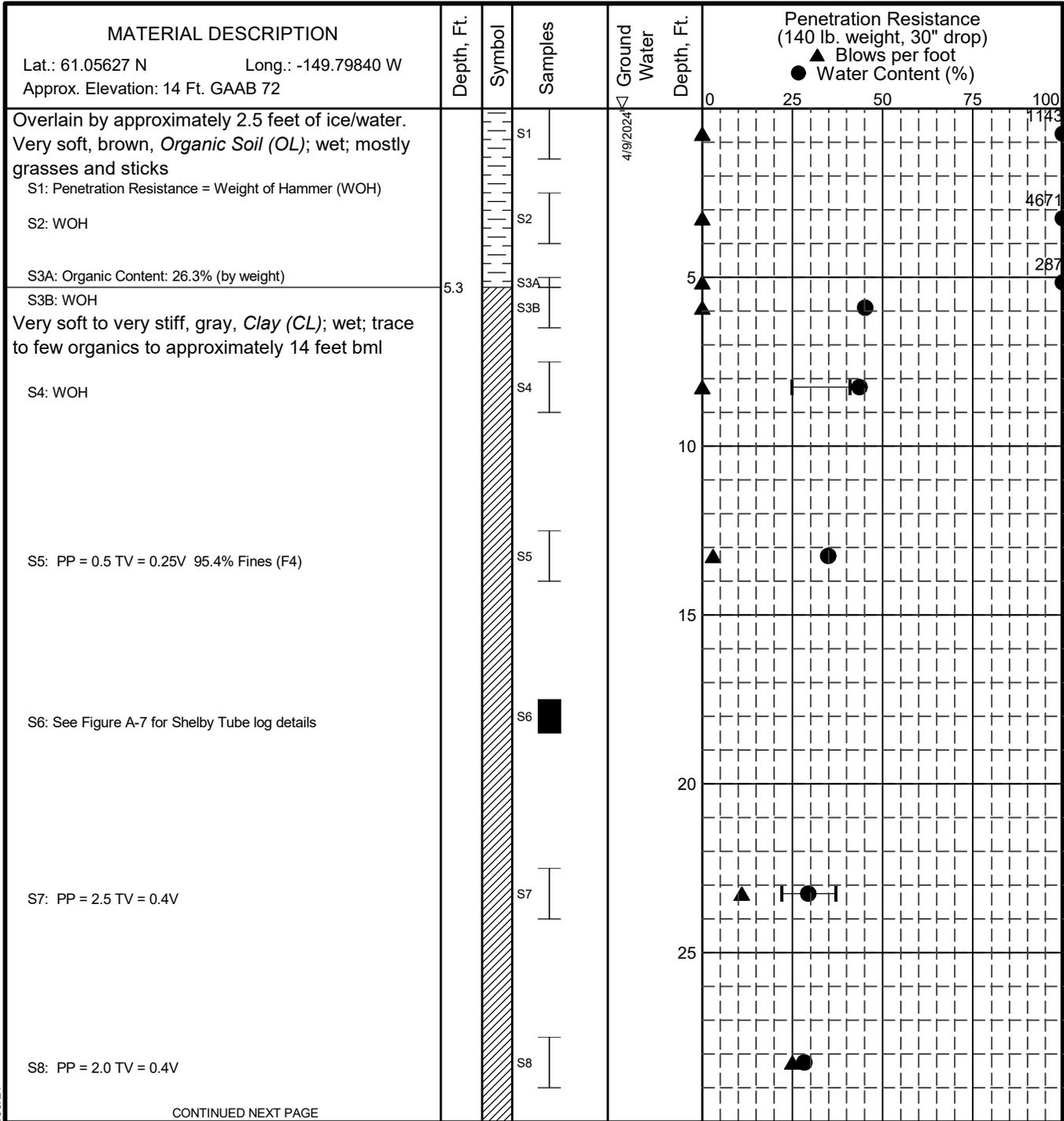
August 2024

113016-001



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Geotechnical and Environmental Consultants

FIG. 2
Sheet 3 of 3



CONTINUED NEXT PAGE

LEGEND

- * Sample Not Recovered
- 2" O.D. Split Spoon Sample
- ▨ Grab Sample
- Shelby Tube

∇ Ground Water Level At Time Of Drilling

- Water Content (%)
- Liquid Limit
- Plastic Limit
- Natural Water Content

NOTES

- The stratification lines represent the approximate boundaries between soil types, and the transition may be gradual.
- The discussion in the text of this report is necessary for a proper understanding of the nature of subsurface materials.
- Water level, if indicated above, is for the date specified and may vary.
- PP (Pocket Penetrometer) tests estimate Unconfined Compressive Strength of Cohesive Soils. TV (Torvane) tests estimate the Undrained Shear Strength of Cohesive Soils. All measurements in tons per square foot.

Potter Marsh Geotechnical Investigations
Anchorage, Alaska

LOG OF BORING B-1

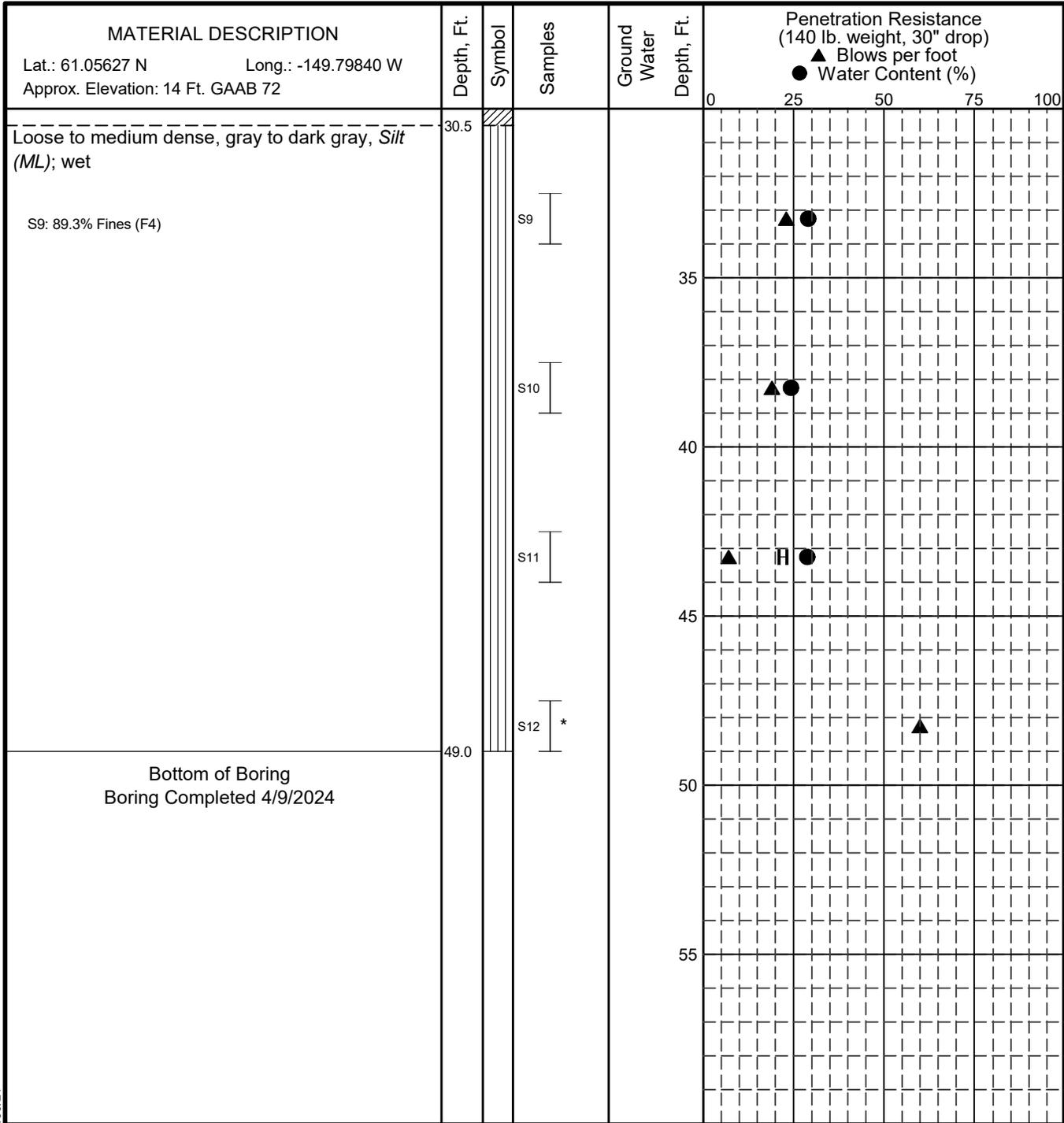
August 2024

113016-001

SHANNON & WILSON, INC.
Geotechnical and Environmental Consultants

FIG. A-3
Sheet 1 of 2

GEOTECHNICAL LOG GINT TEMPLATE7.GPJ S&W GEO1.GDT 7/30/24



LEGEND

- * Sample Not Recovered ▽ Ground Water Level At Time Of Drilling
- 2" O.D. Split Spoon Sample
- Grab Sample
- Shelby Tube
- Water Content (%)
- Plastic Limit —●— Liquid Limit
- Natural Water Content

NOTES

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Potter Marsh Geotechnical Investigations
Anchorage, Alaska

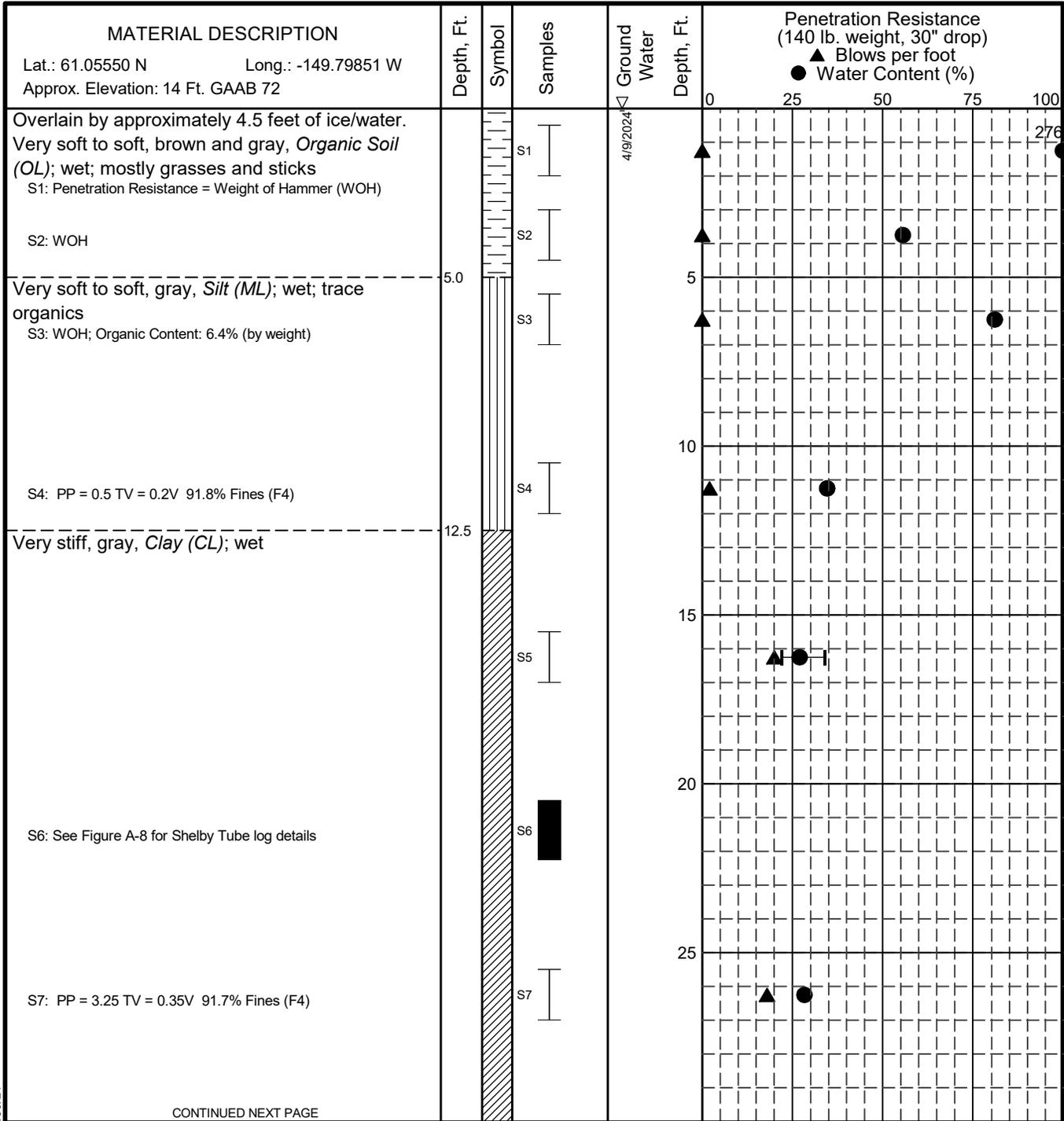
LOG OF BORING B-1

August 2024 113016-001

SHANNON & WILSON, INC.
Geotechnical and Environmental Consultants

FIG. A-3
Sheet 2 of 2

GEOTECHNICAL LOG GINT TEMPLATE7.GPJ S&W GEO1.GDT 7/30/24



CONTINUED NEXT PAGE

LEGEND

- * Sample Not Recovered
- 2" O.D. Split Spoon Sample
- ▨ Grab Sample
- Shelby Tube

∇ Ground Water Level At Time Of Drilling

- Water Content (%)
- Plastic Limit
- Liquid Limit
- Natural Water Content

NOTES

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- The discussion in the text of this report is necessary for a proper understanding of the nature of subsurface materials.
- Water level, if indicated above, is for the date specified and may vary.
- PP (Pocket Penetrometer) tests estimate Unconfined Compressive Strength of Cohesive Soils. TV (Torvane) tests estimate the Undrained Shear Strength of Cohesive Soils. All measurements in tons per square foot.

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LOG OF BORING B-2

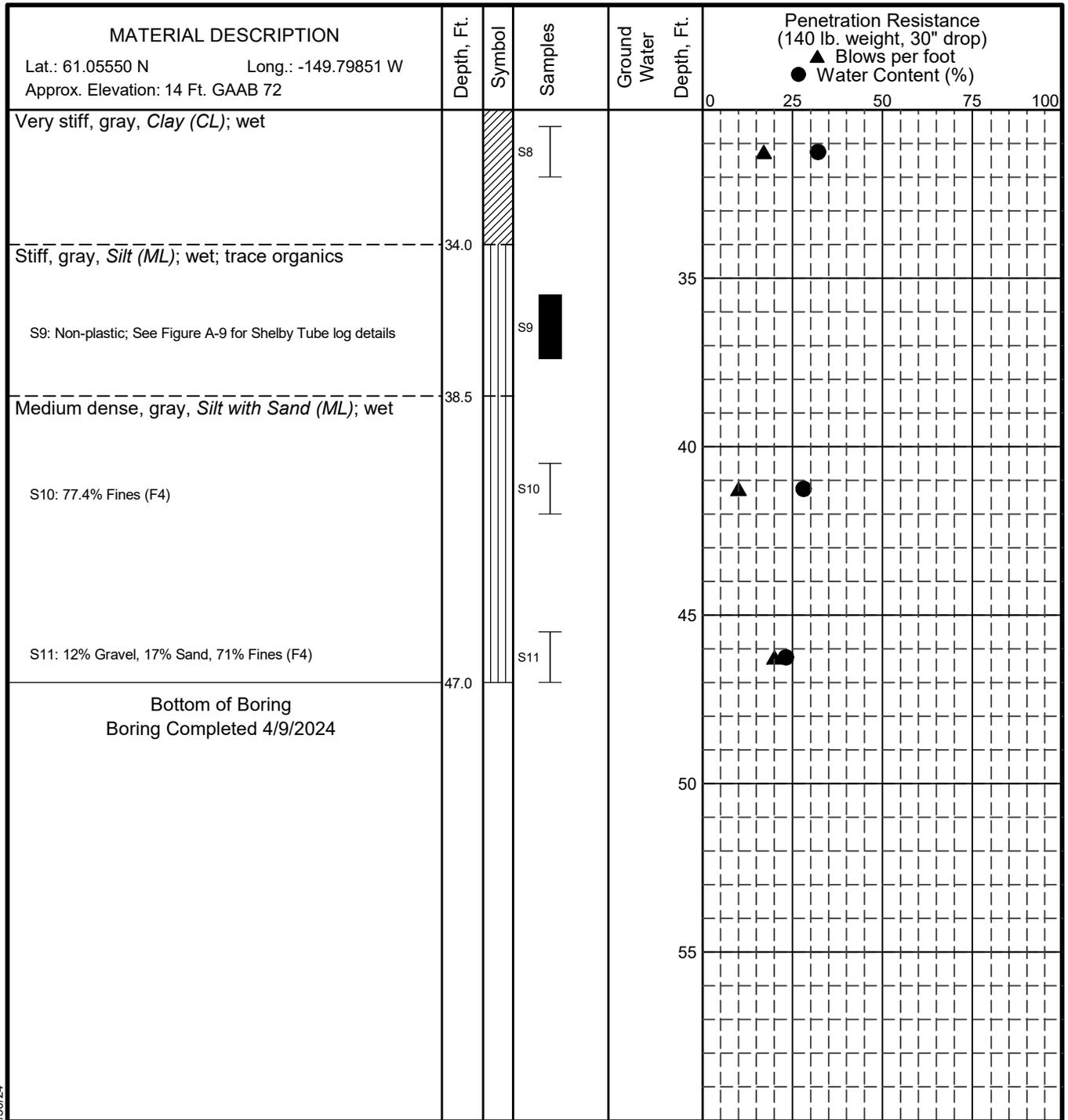
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FIG. A-4
Sheet 1 of 2

GEOTECHNICAL LOG GINT TEMPLATE7.GPJ S&W GEO1.GDT 7/30/24



LEGEND

- * Sample Not Recovered ∇ Ground Water Level At Time Of Drilling
- 2" O.D. Split Spoon Sample
- Grab Sample
- Shelby Tube
- Water Content (%)
- Liquid Limit
- Plastic Limit
- Natural Water Content

NOTES

1. The stratification lines represent the approximate boundaries between soil types, and the transition may be gradual.
2. The discussion in the text of this report is necessary for a proper understanding of the nature of subsurface materials.
3. Water level, if indicated above, is for the date specified and may vary.
4. PP (Pocket Penetrometer) tests estimate Unconfined Compressive Strength of Cohesive Soils. TV (Torvane) tests estimate the Undrained Shear Strength of Cohesive Soils. All measurements in tons per square foot.

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LOG OF BORING B-2

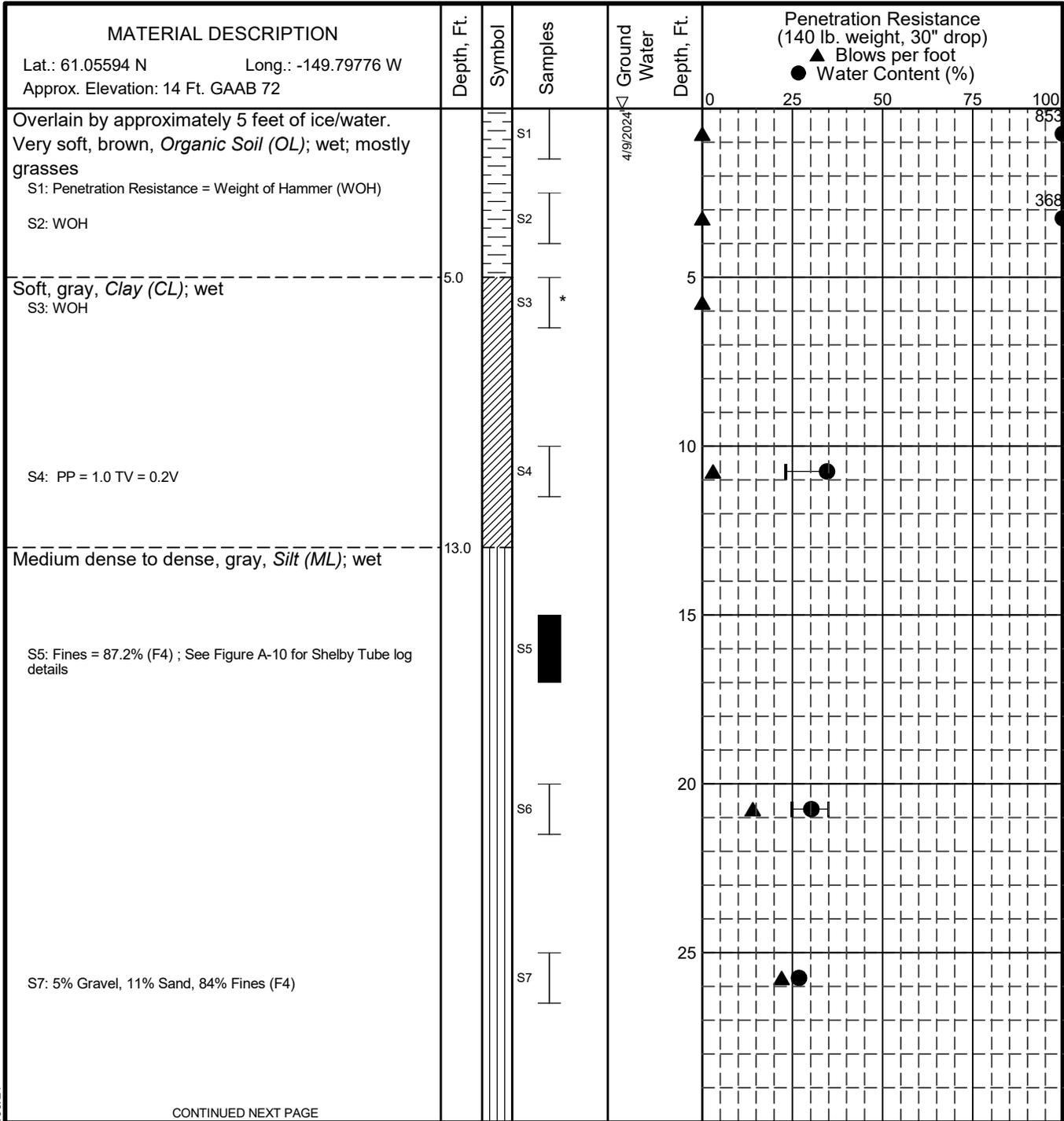
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FIG. A-4
Sheet 2 of 2

GEOTECHNICAL LOG GINT TEMPLATE7.GPJ S&W GEO1.GDT 7/30/24



CONTINUED NEXT PAGE

LEGEND

- * Sample Not Recovered
- |— 2" O.D. Split Spoon Sample
- ▨ Grab Sample
- Shelby Tube

∇ Ground Water Level At Time Of Drilling

- Water Content (%)
- Plastic Limit
- Liquid Limit
- Natural Water Content

NOTES

- The stratification lines represent the approximate boundaries between soil types, and the transition may be gradual.
- The discussion in the text of this report is necessary for a proper understanding of the nature of subsurface materials.
- Water level, if indicated above, is for the date specified and may vary.
- PP (Pocket Penetrometer) tests estimate Unconfined Compressive Strength of Cohesive Soils. TV (Torvane) tests estimate the Undrained Shear Strength of Cohesive Soils. All measurements in tons per square foot.

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LOG OF BORING B-3

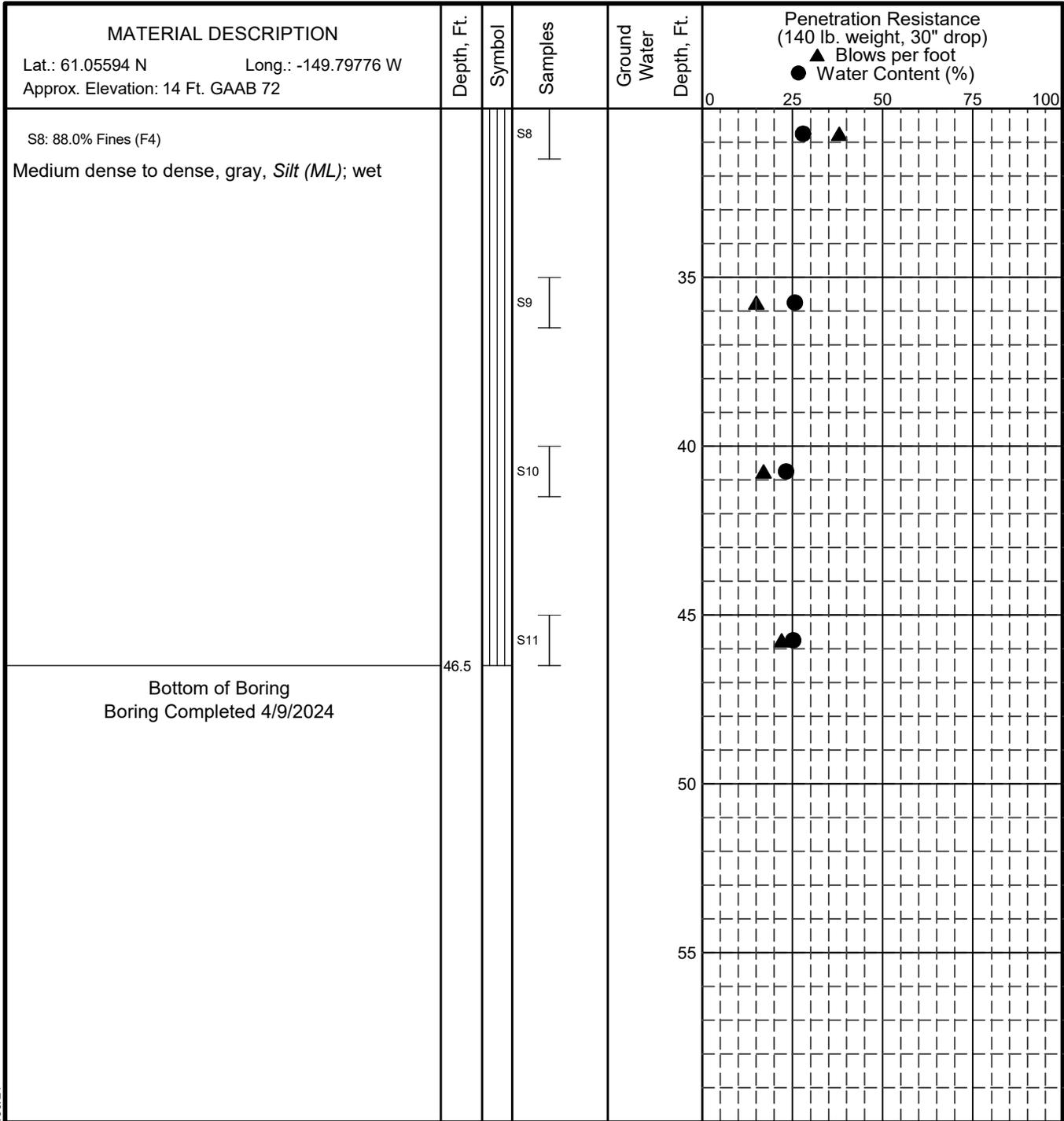
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FIG. A-5
Sheet 1 of 2

GEOTECHNICAL LOG GINT TEMPLATE7.GPJ S&W GEO1.GDT 7/30/24



LEGEND

- * Sample Not Recovered ∇ Ground Water Level At Time Of Drilling
- ⊔ 2" O.D. Split Spoon Sample
- ⊔ Grab Sample
- Shelby Tube
- Water Content (%)
- Plastic Limit —●— Liquid Limit
- Natural Water Content

NOTES

1. The stratification lines represent the approximate boundaries between soil types, and the transition may be gradual.
2. The discussion in the text of this report is necessary for a proper understanding of the nature of subsurface materials.
3. Water level, if indicated above, is for the date specified and may vary.
4. PP (Pocket Penetrometer) tests estimate Unconfined Compressive Strength of Cohesive Soils. TV (Torvane) tests estimate the Undrained Shear Strength of Cohesive Soils. All measurements in tons per square foot.

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LOG OF BORING B-3

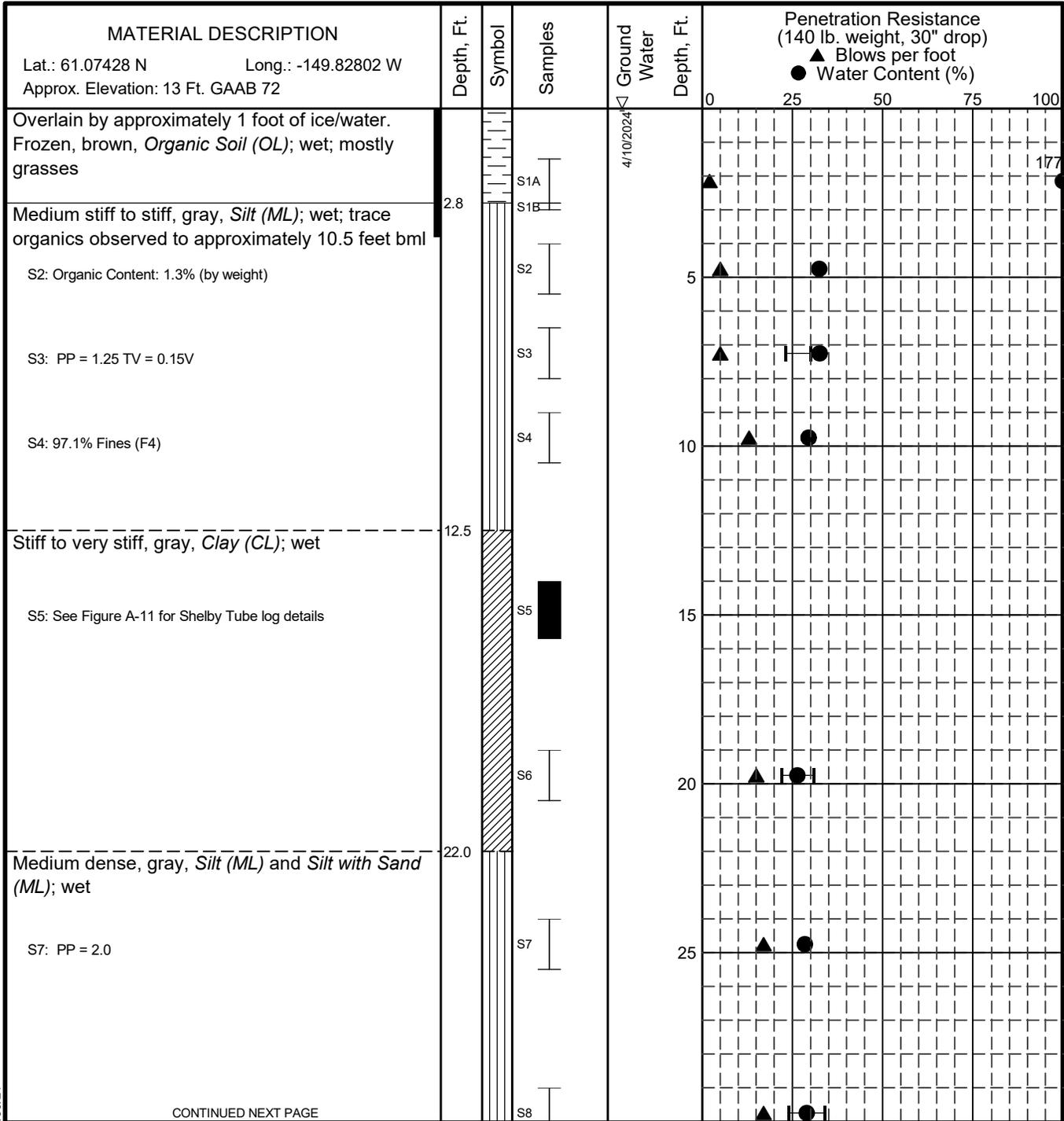
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FIG. A-5
Sheet 2 of 2

GEOTECHNICAL LOG GINT TEMPLATE7.GPJ S&W GEO1.GDT 7/30/24



LEGEND

- * Sample Not Recovered
- 2" O.D. Split Spoon Sample
- ▩ Grab Sample
- Shelby Tube
- Frozen

∇ Ground Water Level At Time Of Drilling

- Water Content (%)
- Plastic Limit
- Liquid Limit
- Natural Water Content

NOTES

- The stratification lines represent the approximate boundaries between soil types, and the transition may be gradual.
- The discussion in the text of this report is necessary for a proper understanding of the nature of subsurface materials.
- Water level, if indicated above, is for the date specified and may vary.
- PP (Pocket Penetrometer) tests estimate Unconfined Compressive Strength of Cohesive Soils. TV (Torvane) tests estimate the Undrained Shear Strength of Cohesive Soils. All measurements in tons per square foot.

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LOG OF BORING B-4

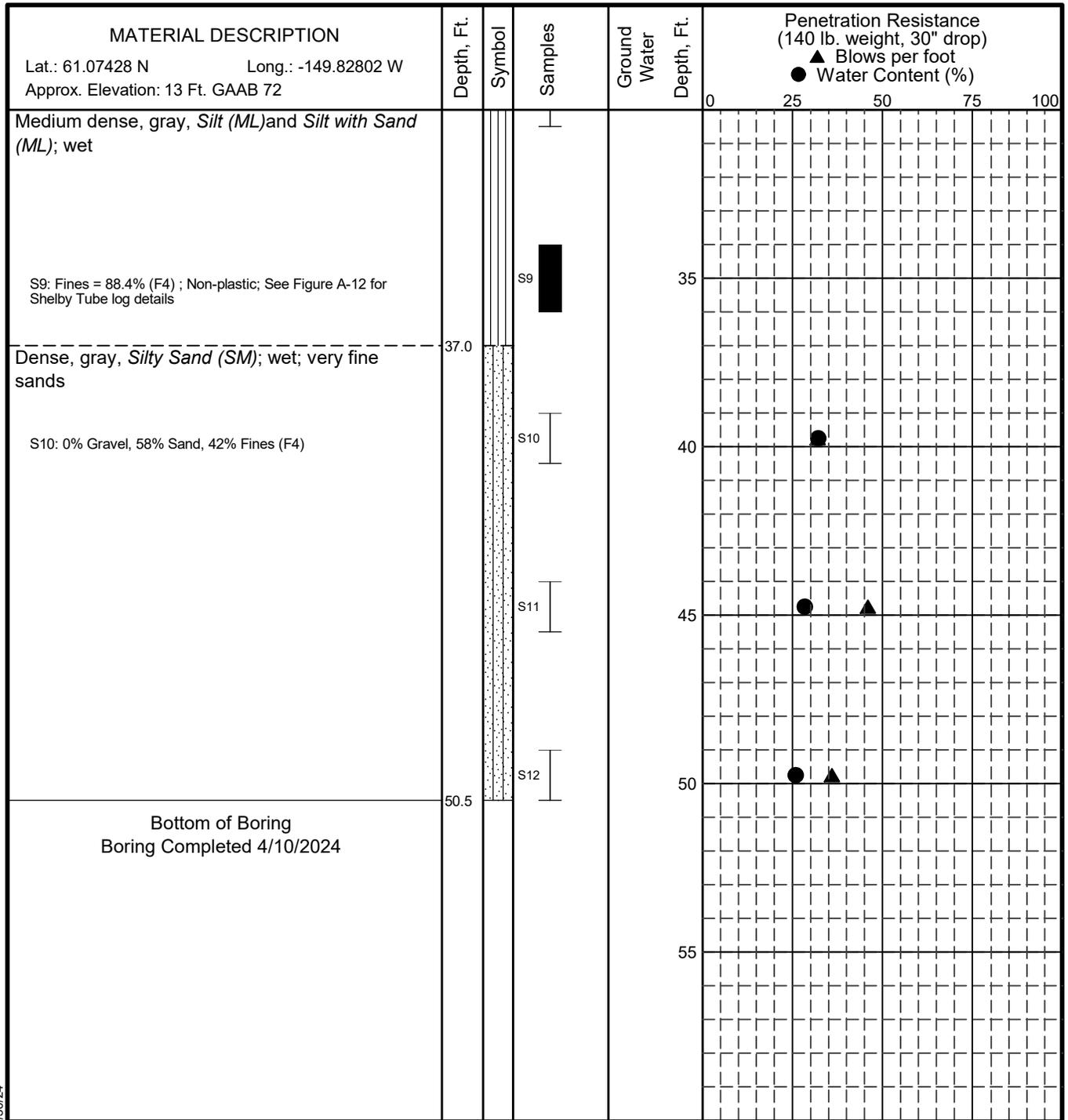
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FIG. A-6
Sheet 1 of 2

GEOTECHNICAL LOG GINT TEMPLATE7.GPJ S&W GEO1.GDT 7/30/24



LEGEND

- * Sample Not Recovered ▽ Ground Water Level At Time Of Drilling
- ⊢ 2" O.D. Split Spoon Sample
- ⊢ Grab Sample
- Shelby Tube
- Frozen

- Water Content (%)
- Plastic Limit
- Liquid Limit
- Natural Water Content

NOTES

- The stratification lines represent the approximate boundaries between soil types, and the transition may be gradual.
- The discussion in the text of this report is necessary for a proper understanding of the nature of subsurface materials.
- Water level, if indicated above, is for the date specified and may vary.
- PP (Pocket Penetrometer) tests estimate Unconfined Compressive Strength of Cohesive Soils. TV (Torvane) tests estimate the Undrained Shear Strength of Cohesive Soils. All measurements in tons per square foot.

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LOG OF BORING B-4

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FIG. A-6
Sheet 2 of 2

GEO TECHNICAL LOG GINT TEMPLATE7.GPJ S&W GEO1.GDT 7/30/24

CLASSIFICATION OF SHELBY TUBE SAMPLE

BORING: B-1 SAMPLE: S6

DEPTH: 17.5 TO 18.5 FEET BELOW GROUND SURFACE
SAMPLE QUALITY: GOOD

DEPTH (FT)	TORVANE				POCKET PEN	M%	DESCRIPTION	
	LENGTH	V	H	R				S
17.5	0.3'	0.68	0.68	--	--	1.75 - 2.0	31.4	CLAY (CL), dark gray, moist, trace sand and gravel
18.0	0.2'	--	--	--	--	--	25.5	RESERVED for Unconfined Compressive Strength (UCS) test (See Figure A-15 for results)
	0.3'	--	--	--	--	--		
18.5	0.2'	0.80	1.15	--	--	4.0 - 4.5	24.0	CLAY (CL), dark gray, moist, trace sand and gravel

Bottom of Sample

NOTES

1. V, H, and R represent Vertical, Horizontal, and Remolded Torvane measurements, respectively.
2. Clay sensitivity is shown in the column labeled S and is a ratio of Tv to Tr.
3. Torvane and Pocket Pen results are reported in tons per square foot (tsf).
4. Reported Pocket Pen measurements are an average of the values representing each 6-inch section of the sample.
5. Moisture content for each interval is recorded in the column labeled M%.
6. -- Not Tested

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SHELBY TUBE CLASSIFICATION BORING B-1 S6

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FIG. A-7

CLASSIFICATION OF SHELBY TUBE SAMPLE

BORING: B-2 SAMPLE: S6

DEPTH: 20.5 TO 22.25 FEET BELOW GROUND SURFACE
SAMPLE QUALITY: GOOD

DEPTH (FT)	LENGTH	TORVANE				POCKET PEN	M%	DESCRIPTION	
		V	H	R	S				
20.0	0.5'								Slough
20.5	0.4'	0.75	0.57	-	-	1.75	29.8	RESERVED for Unconfined Compressive Strength (UCS) test (See Figure A-15 for results)	CLAY (CL), dark gray, moist, trace sand, low dilatancy, medium plasticity
21.0	0.1'	0.92	0.60	-	-	2.25 - 3.25	28.1		CLAY (CL), dark gray, moist, trace sand, low dilatancy, medium plasticity
21.5	0.5'	-	-	-	-	-	27.3		
21.75	0.25'	0.65	0.65	-	-	3.75	25.0		CLAY (CL), dark gray, moist, trace sand, low dilatancy, medium plasticity

Bottom of
Sample

NOTES

1. V, H, and R represent Vertical, Horizontal, and Remolded Torvane measurements, respectively.
2. Clay sensitivity is shown in the column labeled S and is a ratio of Tv to Tr.
3. Torvane and Pocket Pen results are reported in tons per square foot (tsf).
4. Reported Pocket Pen measurements are an average of the values representing each 6-inch section of the sample.
5. Moisture content for each interval is recorded in the column labeled M%.
6. -- Not Tested

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SHELBY TUBE CLASSIFICATION BORING B-2 S6

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FIG. A-8

CLASSIFICATION OF SHELBY TUBE SAMPLE

BORING: B-2 SAMPLE: S9

DEPTH: 35.5 TO 37.4 FEET BELOW GROUND SURFACE
SAMPLE QUALITY: GOOD

DEPTH (FT)	TORVANE				POCKET PEN	M%	DESCRIPTION					
	LENGTH	V	H	R							S	
35.5	0.25'	0.55	0.65	--	--	4.5	21.7					SILT (ML), gray, moist, trace organics, low plasticity, medium dilatancy
36.0	0.25'	--	--	--	--	--	22.3					RESERVED for Unconfined Compressive Strength (UCS) test (See Figure A-16 for results)
	0.25'											
36.5	0.25'											SILT (ML), gray, moist, trace organics, low plasticity, medium dilatancy
	0.5'	0.58	0.63	--	--	4.5	22.4					
37.0	0.4'	0.60	0.35	--	--	2.5 - 3.25	25.2					
37.4												

Bottom of Sample

NOTES

1. V, H, and R represent Vertical, Horizontal, and Remolded Torvane measurements, respectively.
2. Clay sensitivity is shown in the column labeled S and is a ratio of Tv to Tr.
3. Torvane and Pocket Pen results are reported in tons per square foot (tsf).
4. Reported Pocket Pen measurements are an average of the values representing each 6-inch section of the sample.
5. Moisture content for each interval is recorded in the column labeled M%.
6. -- Not Tested

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SHELBY TUBE CLASSIFICATION BORING B-2 S9

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FIG. A-9

CLASSIFICATION OF SHELBY TUBE SAMPLE

BORING: B-3 SAMPLE: S5

DEPTH: 15 TO 16.8 FEET BELOW GROUND SURFACE
SAMPLE QUALITY: FAIR

DEPTH (FT)	TORVANE				POCKET PEN	M%	DESCRIPTION	
	LENGTH	V	H	R				S
15.0	0.2'						Slough	
	0.3'						PEAT (PT) intermixed with CLAY (CL)	
15.5	0.3'	0.76	0.72	--	--	1.3 - 2.5	25.1	CLAY (CL), dark gray, moist, trace organics, low plasticity, no dilatancy
	0.2'							RESERVED as alternate for Unconfined Compressive Strength (UCS) test - not conducted
16.0	0.25'	--	--	--	--	--	--	
	0.25'	0.62	0.70	--	--	3.0 - 3.25	28.0	CLAY (CL), dark gray, moist, low plasticity, no dilatancy
16.5	0.3'	0.60	0.75	--	--	1.75 - 2.25	29.7	
16.8								Bottom of Sample

NOTES

1. V, H, and R represent Vertical, Horizontal, and Remolded Torvane measurements, respectively.
2. Clay sensitivity is shown in the column labeled S and is a ratio of Tv to Tr.
3. Torvane and Pocket Pen results are reported in tons per square foot (tsf).
4. Reported Pocket Pen measurements are an average of the values representing each 6-inch section of the sample.
5. Moisture content for each interval is recorded in the column labeled M%.
6. -- Not Tested

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SHELBY TUBE CLASSIFICATION BORING B-3 S5

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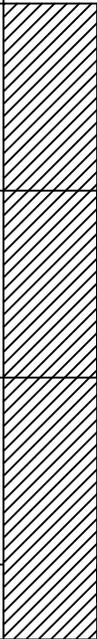
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FIG. A-10

CLASSIFICATION OF SHELBY TUBE SAMPLE

BORING: B-4 SAMPLE: S5

DEPTH: 14 TO 15.7 FEET BELOW GROUND SURFACE
SAMPLE QUALITY: GOOD

DEPTH (FT)	TORVANE				POCKET PEN	M%	DESCRIPTION	
	LENGTH	V	H	R				S
14.0	0.5'	0.52	0.45	--	--	2.0	30.1	 CLAY (CL), dark gray, moist, low plasticity, no dilatancy RESERVED for Unconfined Compressive Strength (UCS) test (See Figure A-16 for results) CLAY (CL), dark gray, moist, medium plasticity, no dilatancy
14.5	0.5'	--	--	--	--	--	28.6	
15.0	0.5'	0.55	0.52	--	--	2.75	28.3	
15.5	0.2'	0.60	0.70	--	--	2.25	29.7	
15.7								Bottom of Sample

NOTES

1. V, H, and R represent Vertical, Horizontal, and Remolded Torvane measurements, respectively.
2. Clay sensitivity is shown in the column labeled S and is a ratio of Tv to Tr.
3. Torvane and Pocket Pen results are reported in tons per square foot (tsf).
4. Reported Pocket Pen measurements are an average of the values representing each 6-inch section of the sample.
5. Moisture content for each interval is recorded in the column labeled M%.
6. -- Not Tested

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SHELBY TUBE CLASSIFICATION BORING B-4 S5

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FIG. A-11

CLASSIFICATION OF SHELBY TUBE SAMPLE

BORING: B-4 SAMPLE: S9

DEPTH: 34 TO 36 FEET BELOW GROUND SURFACE
SAMPLE QUALITY: FAIR

DEPTH (FT)	TORVANE				POCKET PEN	M%	DESCRIPTION	
	LENGTH	V	H	R				S
34.0	0.1'						Slough	
	0.2'	--	--	--	--	--	POORLY GRADED SAND with SILT (SP-SM), dark gray, moist	
34.5	0.5'	0.35	0.25	--	--	1.5	31.7	SILT with SAND (ML), dark gray, moist
35.0	0.5'	0.60	0.43	--	--	3.25	28.5	SILT (ML), dark gray, moist, occasional 1/4" sand lenses
35.5	0.2'							
	0.2'	0.33	0.38	--	--	1.0	26.9	SILT with SAND (ML), dark gray, moist, trace gravel
36.0								Bottom of Sample

NOTES

1. V, H, and R represent Vertical, Horizontal, and Remolded Torvane measurements, respectively.
2. Clay sensitivity is shown in the column labeled S and is a ratio of Tv to Tr.
3. Torvane and Pocket Pen results are reported in tons per square foot (tsf).
4. Reported Pocket Pen measurements are an average of the values representing each 6-inch section of the sample.
5. Moisture content for each interval is recorded in the column labeled M%.
6. -- Not Tested

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SHELBY TUBE CLASSIFICATION BORING B-4 S9

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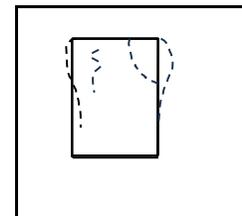
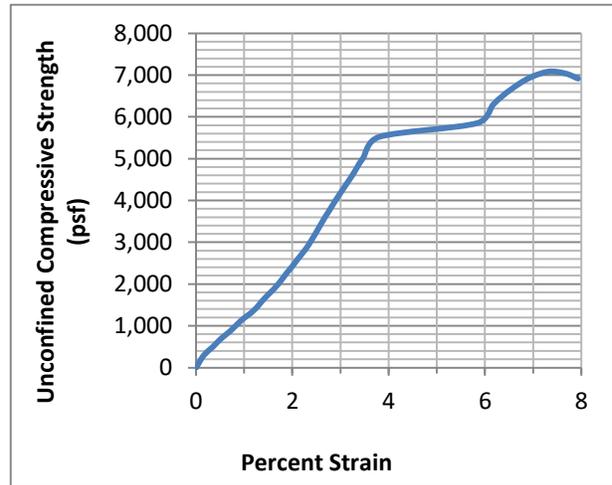
FIG. A-12

Boring: B-1
 Sample: S6
 Depth (ft): 17.8-18.3

Soil Description: Stiff, dark gray, Clay (CL); moist
 LL: 0 PL: 0 PI: 0
 SG: 2.7

Initial Void Ratio: 0.68
 Initial Moisture Content (percent): 25.5
 Initial Saturation Ratio: N/A
 Initial Wet Density (pcf): 126.1
 Initial Dry Density (pcf): 100.5

Maximum Unconfined
 Compressive Strength (psf): 7084
 Strain at Failure (percent): 7.3
 Cohesion (psf): 3542



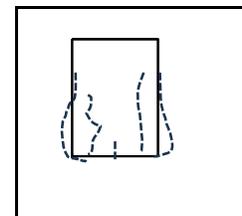
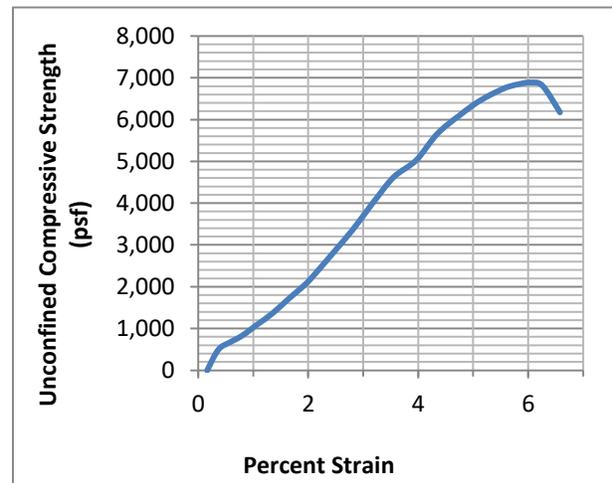
Deformation After Test

Boring: B-2
 Sample: S6
 Depth (ft): 21.05-21.55

Soil Description: Stiff, dark gray, Clay (CL); moist
 LL: 0 PL: 0 PI: 0
 SG: 2.7

Initial Void Ratio: 0.73
 Initial Moisture Content (percent): 27.3
 Initial Saturation Ratio: N/A
 Initial Wet Density (pcf): 124.2
 Initial Dry Density (pcf): 97.6

Maximum Unconfined
 Compressive Strength (psf): 6887
 Strain at Failure (percent): 6.0
 Cohesion (psf): 3444



Deformation After Test

Notes:

1. Testing conducted in general accordance with ASTM D 2166
2. pcf = pounds per cubic foot, psf = pounds per square foot

Comments or Deviations from Method:

None

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**Unconfined Compressive Strength
 Samples B-1 S6 and B-2 S6**

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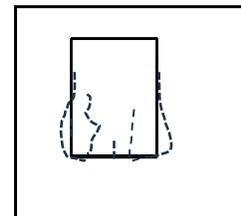
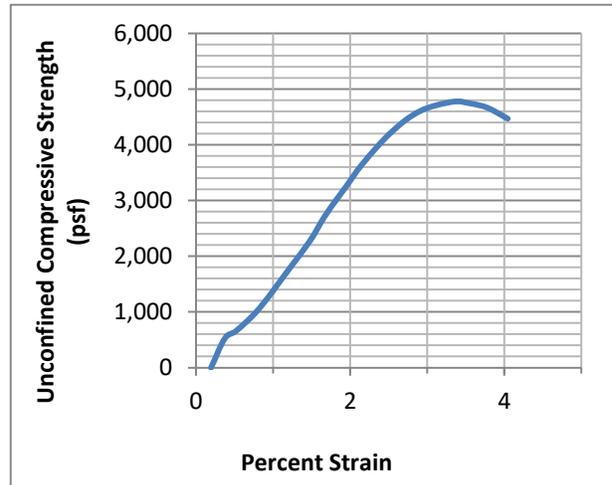
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Boring: B-2
 Sample: S9
 Depth (ft): 35.75-36.25

Soil Description: Stiff, dark gray, Silt (ML); moist
 LL: 0 PL: 0 PI: 0
 SG: 2.7

Initial Void Ratio: 0.60
 Initial Moisture Content (percent): 22.3
 Initial Saturation Ratio: N/A
 Initial Wet Density (pcf): 129.1
 Initial Dry Density (pcf): 105.6

Maximum Unconfined
 Compressive Strength (psf): 4771
 Strain at Failure (percent): 3.3
 Cohesion (psf): 2386



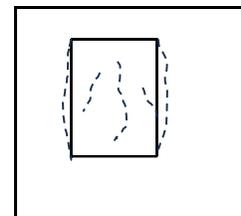
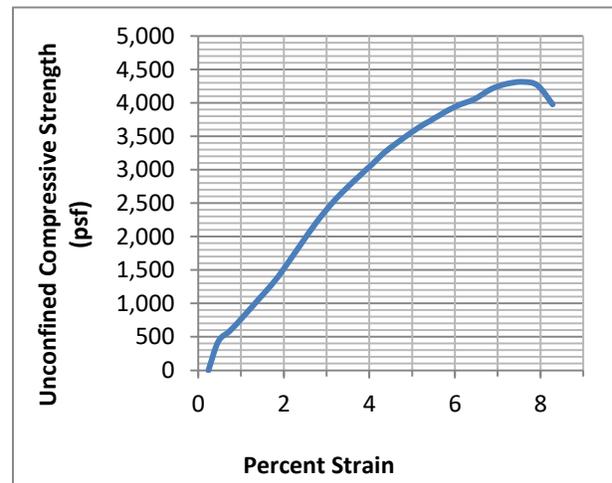
Deformation After Test

Boring: B-4
 Sample: S5
 Depth (ft): 14.45-14.95

Soil Description: Stiff, dark gray, Clay (CL); moist
 LL: 0 PL: 0 PI: 0
 SG: 2.7

Initial Void Ratio: 0.75
 Initial Moisture Content (percent): 28.6
 Initial Saturation Ratio: N/A
 Initial Wet Density (pcf): 123.9
 Initial Dry Density (pcf): 96.4

Maximum Unconfined
 Compressive Strength (psf): 4316
 Strain at Failure (percent): 7.6
 Cohesion (psf): 2158



Deformation After Test

Notes:

1. Testing conducted in general accordance with ASTM D 2166
2. pcf = pounds per cubic foot, psf = pounds per square foot

Comments or Deviations from Method:

None

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**Unconfined Compressive Strength
 Samples B-2 S9 and B-4 S5**

August 2024

113016-001