



# SMALL PROCUREMENT DOCUMENTS

for Construction Related Professional Services - RFP, Proposal & Award per AS 36.30.320 and 2 AAC 12.400

## PART A – REQUEST FOR PROPOSALS

NOTE: State & FHWA Small Procurement Limit is \$200,000; FAA/FTA Small Procurement Limit is \$150,000.

### GENERAL INFORMATION

These documents consist of three parts (Part A - Request for Proposals; Part B - Proposal Form; Part C - Contract Award, Notice to Proceed & Invoice Summary) – **plus the current edition dated January 2018 of the Standard Provisions Booklet** (DOT&PF Standard Provisions for Small Procurements of Construction-Related Professional Services) that is hereby incorporated by reference. The Booklet will not

be distributed with any of the three parts; however, a copy may be obtained on our website at the following link: <http://www.dot.state.ak.us/procurement>. The Booklet contains copies of the Small Procurements Procedure (Chapter 2 of the PSA Manual), Appendix A (General Conditions), Appendix C (Compensation), Exhibit C-1 (Methods of Payment), Appendix D (Indemnification and Insurance), and Appendix E (Certificate of Compliance).

Project Title: McHugh RWIS Tower Upgrade Design Services		Contracting Agency:	
IRIS Program No: CFHWY00428	<b>RFP No. 25212004</b>	State of Alaska	
Federal No: 0106(094)		DOT&PF – Central Region	
Project Site (City, Village, etc.) Anchorage, Alaska		4111 Aviation Avenue	
		Anchorage, AK 99502	
Agency Contact: John Turley, P.E.	Phone: (907) 266-2171	Email: <a href="mailto:john.turley@alaska.gov">john.turley@alaska.gov</a>	
Estimated Amount of Proposed Contract:	<input type="checkbox"/> less than \$50,000	<input checked="" type="checkbox"/> \$50,000 to \$100,000	
	<input type="checkbox"/> \$100,000 to \$150,000	<input type="checkbox"/> \$150,000 to \$200,000	
Funding Source (check all that apply): <input checked="" type="checkbox"/> State <input checked="" type="checkbox"/> FHWA <input type="checkbox"/> FAA <input type="checkbox"/> FTA <input type="checkbox"/> Other:			
<p><b>REQUIRED SERVICES:</b> <input checked="" type="checkbox"/> are described in the attached Proposed Statement of Services dated 7/6/2020 (21 pages)</p> <p>The following additional information is available to assist interested offerors with their proposals, and may be downloaded from the RFP website: a. Previous Scope of Work_Oct 2016; b. McHugh RWIS Pavement Sensor Upgrade_Bettisworth_Apr 2019; c. Previous PS&amp;E Review_Bettisworth_Jan 2020; d. Erosion &amp; Sediment Control Plan_CRW_Engineering_Nov 2019; e. Expedited Re-Evaluation Approval Form_Nov 2017; f. ARRC Permit_Nov 2020; g. ARRC Supplement to Contract 8055_Sep 2016; h. ARRC Tower Bill of Sale_Oct 2016; i. Sensors on Existing Tower; j. DNR Concept_Dec 1994; k. McHugh Creek Scenic Overlook Seward Hwy MP 112_Dec 1998; l. GCI System_Dec 2003; m. CEA System Map McHugh Creek_Dec 2009; n. Site Photos.</p> <p><b>Note:</b> Funding is not yet available. Contract award will be made after receipt of funding.</p> <p><b>Note: (1)</b> Any proposer listing as a member of their team a current public officer or a former public officer who has left State service within the past two (2) years must submit a sworn statement from that individual that the Alaska Executive Branch Ethics Act does not prohibit his or her participation in this project. If a proposer fails to submit a required statement, the proposal may be deemed nonresponsive or nonresponsible, and rejected, depending upon the materiality of the individual's proposed position. If required, submit the attached Former Employee's Certification of Eligibility (Form 25A270). The page limit noted below does not include this form.</p> <p><b>(2)</b> To ensure the Department meets its overall DBE Utilization Goal, DBEs are encouraged to participate in this solicitation.</p> <p><b>Note:</b> Offerors shall carefully review this solicitation for defects and questionable or objectionable material. Comments concerning defects and objectionable material must be made in writing and received by the purchasing authority before proposal due date. This will allow issuance of any necessary addenda. It will also help prevent the opening of a defective solicitation and exposure of Offeror's proposals upon which award could not be made. Protests based upon any omission, error, or the content of the solicitation will be disallowed if not made in writing before the proposal due date.</p>			
PERIOD OF PERFORMANCE: Begin: August 2020		End: March 2022	

### PROPOSAL FORMAT

Written proposals to provide the required services shall consist of the enclosed "Part B - Proposal Form", completed as indicated, plus a **letter not to exceed five (8.5" x 11") pages**. If a Price Estimate is required,

the page limit does not include the Price Estimate. Proposals that exceed the page limit may be disqualified. Proposals may be sent electronically as indicated on page 2, or hand delivered to the Contracting Agency.

**PRICE AND METHOD OF PAYMENT**

**A Price Estimate is NOT required with your proposal.** The selected Offeror shall submit a Price Estimate within **one** business day following a request from the Contracting Agency.

**A Price Estimate is required with your proposal.**

A Price Estimate shall include all tasks to perform the contract and be prepared in the format shown below. Note that a Price Estimate is not a bid; it is a negotiable offer. A Fixed Price contract is desirable; however, a Cost Reimbursement contract may result if a Fixed Price cannot be negotiated.

PRICE ESTIMATE FORMAT (if required per above)						
1. *	<u>Direct Costs of Direct Labor</u> (DCDL). Provide a table with the following columns (Names required only for key staff and persons "in-responsible-charge"):					
	<u>Job Classification</u>	<u>Name</u>	<u>Total Hours</u>	<u>Rate (\$/hr) *</u>	<u>Estimated Cost (\$)</u>	<u>Total DCDL \$ _____</u>
2. *	<u>Indirect Costs</u> (IDC).				<b>IDC Rate: _____%</b>	<b>Total IDC \$ _____</b>
3.	<u>Subcontracts</u> . List each, the amount for each and <b>attach an estimate in this format for each.</b>					<b>Total Subcontracts \$ _____</b>
4.	<u>Expenses</u> . (Equipment, transportation, food and lodging, reproduction, etc. - if not included in Indirect Costs.) Amounts shall be based on actual cost to the Offeror, without any profit or other markup. Provide a table with the following columns:					
	<u>Item</u>	<u>Quantity</u>	<u>Cost (\$/Unit)</u>	<u>Estimated Cost (\$)</u>	<b>Total Expenses \$ _____</b>	
5. *	<u>Total Estimated Cost</u> . Sum of DCDL + IDC + Subcontracts + Expenses.					<b>Total Cost \$ _____</b>
6. *	<u>Proposed Fee</u> . List a proposed <b>amount</b> (not a percentage) for profit.					<b>Fee \$ _____</b>
7.	<u>Total Estimated Price</u> . Sum of Total Estimated Cost plus Proposed Fee.					<b>Total Price \$ _____</b>
* Sole proprietorships and small firms that do not maintain an accounting system that separately identifies costs for "payroll" benefits and overhead, for routine allocation of such costs to jobs, may omit items 2, 5, & 6 if the Rates (\$/hr) in Item 1 are proposed as Billing Rates (DCDL + IDC + FEE). <b>Firms that routinely allocate Indirect Costs to projects may not use Billing Rates for this estimate.</b>						

SUBMITTAL DEADLINE AND LOCATION		
DATE: <b>July 20, 2020</b>	PREVAILING TIME: <b>4:00 p.m.</b>	EMAIL: <a href="mailto:crdotpfcontracts@alaska.gov">crdotpfcontracts@alaska.gov</a>
Hand deliver proposal directly to following location, and person, if named; or email to address above:		
State of Alaska, DOT&PF – Central Region Attn: Kathleen A. Bridenbaugh, PSA Unit Supervisor 4111 Aviation Avenue Anchorage, AK, 99502		
Late proposals will not be considered. <b>Offerors</b> are responsible to assure timely delivery and receipt and <b>are encouraged to respond at least four business hours prior to the above deadline.</b> Any addendum issued less than 24 hours prior to a Deadline will extend that Deadline by a minimum of an additional 24 hours. The Contracting Agency shall not be responsible for any communication equipment failures or congestion and will not extend the deadline for any proposals not received in their entirety prior to the deadline. Except for hand delivered proposals, confirmation of receipt by telephone or other means four hours or less prior to deadline will <b>not</b> be provided.		

**BASIS OF SELECTION**

This solicitation does not guarantee that a contract will be awarded. All proposals may be summarily rejected. Our intent, however, is to select a Contractor based on the following criteria:

- 1) Demonstrated comprehension of required services and proposed strategy for performance.
- 2) Relevant experience and credentials of proposed personnel including any subcontractors. Address DBE participation.
- 3) Reasonableness of proposed schedule for performance.
- 4) Price Estimate, **if required.**
- 5) Other: Provide list of firm(s)' current contracts with the Contracting Agency (statewide).

Proposals will be evaluated per Chapter 2 of the DOT&PF PSA Manual.

END OF PART A



# SMALL PROCUREMENT DOCUMENTS PART B - PROPOSAL FORM

**THIS COMPLETED FORM MUST BE THE FIRST PAGE. NO OTHER COVER SHALL BE USED.**

Project Title: McHugh RWIS Tower Upgrade Design Services  
RFP No.: 25212004

### PROPOSAL REQUIREMENTS

Proposals shall demonstrate comprehension of the objectives and services for the proposed contract; include a brief overview of what will be done; and show a sequence and schedule for each important task. Assumptions made in formulation of the proposal and the support expected from the Contracting Agency shall be defined. The key individuals who will perform services shall be named (including all who would be "in responsible charge" (Ref: AS 08.48) for Architecture, Engineering, Land Surveying and/or Landscape Architecture with their Alaska

registration number). Include a brief – about one paragraph – statement for each person named that describes **experience directly related** to the service(s) they will perform. Proposed subcontracts, if any, shall be explained. Resources; e.g., support personnel, facilities, equipment, current and projected workload could be summarized. Any **unique** qualifications or knowledge of the project, project area, or services to be provided, should be identified.

### ALASKA STATUTORY PREFERENCES

are  are not applicable to this contract.

If applicable, check those preferences that you (Offeror) claim.

Alaska Bidder (Offeror) **AND>>**  Veterans **AND >>**  Employment Program **OR**  Disabled Persons  
2 AAC 12.260(d) AS 36.30.175 **if applicable** AS 36.30.170(c) AS 36.30.170 (e & f)

Invalid claim(s) will result in the Offeror's disqualification for contract award.

### PROPOSAL

The undersigned has reviewed Part A – RFP of these documents, understands the instructions, terms, conditions, and requirements contained therein and in the Standard Provisions Booklet, and proposes to provide the required services described in Part A in accordance with the attached letter which constitutes our proposal to complete the project.

this requirement may cause the state to reject the proposal as non-responsive, or cancel the contract.

By my initials below, I certify that the Offeror and all Subcontractors identified in the Proposal shall comply with all requirements for the following items as explained in the Standard Provisions Booklet:

I further certify that I am a duly authorized representative of the Offeror; that this Proposal accurately represents capabilities of the Offeror and Subcontractors identified for providing the services indicated. I understand that these Certifications are material representations of fact upon which reliance will be placed if this contract is awarded and that failure to comply with these Certifications is a fraudulent act. The Contracting Agency is hereby authorized to request any entity identified in this proposal to furnish information deemed necessary to verify the reputation and capabilities of the Offeror and Subcontractors. This proposal is valid for at least ninety (90) days.

- [ ] Certification of Compliance (Alaska Licenses & Registrations, and Certifications).
- [ ] Insurance, including Workers' Compensation, Comprehensive or Commercial General Liability, and Comprehensive Automobile Liability.
- [ ] Professional Liability Insurance as follows:
  - As available.
  - Minimum of \$300,000.
  - Minimum of \$500,000.
- [ ] Certification for Federal-Aid Contracts Exceeding \$100,000 (DOT&PF Form 25A262 Appendix A, General Conditions)

\_\_\_\_\_  
Signature **and Date**

Name.....:  
Title.....:  
Offeror (Firm).....:  
Street or PO Box.....:  
City, State, Zip.....:  
Telephone - Voice.....:  
Telephone - Fax.....:  
Email.....:

Federal Tax Identification No. .... :

Type of Firm (Check one of the following):

- Individual  Partnership
- Corporation in state of.....:
- Other (specify).....:

For Small Procurements over \$50,000, by signature on this form, the Offeror certifies that all services provided under this contract by the Contractor and all Subcontractors shall be performed in the United States. If the Offeror cannot certify that all work is being performed in the United States, the Offeror must contact the Contracts Officer to request a waiver at least 24 hours prior to proposal deadline. The Offeror must provide with their submission a detailed description of the portion of work being performed outside the United States, where, by whom, and the reason the waiver is necessary. Failure to comply with

END OF PART B



# PROPOSED STATEMENT OF SERVICES APPENDIX B

RFP No: 25212004  
IRIS Program No: CFHWY00428  
Federal Project No: 0106(094)  
Date Prepared: 7/6/2020

## McHugh RWIS Tower Upgrade Design Services

### ARTICLE B1 INDEX OF ARTICLES

<u>Article</u>	<u>Groups</u>	<u>Task #</u>		<u>Subject</u>
B2				Exhibits
B3				Codes, Regulations, Standards and Procedures
B4				Administrative Requirements
B5				Management
B6				Project Location and Description
B7				Summary of Contract Services
B8	A	1		Reconnaissance Engineering Study
B9		2	EXC	Environmental Activities
B10		3	EXC	Reserved
B11		4	NIC	Surveying
B12		5	EXC	Right of Way Mapping
B13		6	EXC	Geotechnical Investigation/Recommendations
B14		7	NIC	Hydrologic and Hydraulic Design
B15	A	8		Electrical Design
B16		9	NIC	Traffic and Safety Analysis
B17	A	10		Structural Design
B18	A	11		Foundation Design
B19		12	EXC	Design Study Report
B20		13	NIC	Public Involvement
B21		14	EXC	Reserved
B22	A	15		Erosion and Sediment Control Plan
B23	A	16		Plans, Specifications and Engineer's Estimate
B24		17	EXC	Reserved
B25	A	18		Utilities Agreements
B26		19	EXC	Right of Way Appraisal And Acquisition Services
B27	B	20		Assistance During Bidding
B28	A	21		Assistance with Design Project Closeout
B29	C	22		Assistance During Construction

Do no work and incur no expense on any task until you have received a Notice to Proceed from the Contracting Agency that includes that task.

The Contracting Agency gives no guarantee that Notice to Proceed will be given for any task.

**NIC** is abbreviation for Not in Contract. The Contracting Agency reserves the right to add NIC tasks by amendment. However, it is under no obligation to do so, and reserves the right to complete the services by any other means, including the use of in house forces.

**EXC** is abbreviation for Excluded from Contract. No task marked EXC will be included in the Contract.

**ARTICLE B2**  
**EXHIBITS**

<b><u>Exhibits</u></b>	<b><u>Subject</u></b>
B-1	Project Location Map(s)
B-2	Project Schedule
B-3	Highway Design Standards and Guidelines
B-4	Informational Websites

**ARTICLE B3**  
**CODES, REGULATIONS, STANDARDS AND PROCEDURES**

**B3.1** All studies, reports and design services shall be performed in accordance with applicable codes, regulations and standards; professional practice procedures; commonly recognized construction methods; and the DOT&PF's policies, procedures and practices, including those shown in **Exhibits B-3, and B-4**. The Contractor shall consider the geographical location of the project as well as other environmental and site specific constraints when performing services for this project.

**B3.2** Publications that contain the current highway design standards and guidelines are listed in **Exhibit B-3**. During the period of this agreement the listed documents may be added to, deleted or revised.

**B3.3** English units of measurement shall be used throughout development of the project.

**ARTICLE B4**  
**ADMINISTRATIVE REQUIREMENTS**

**B4.1 General.** The Contractor shall provide services as identified and authorized by sequentially numbered Notices-to-Proceed.

**B4.2 Project Staff.** All services must be performed by or under the direct supervision of the following individuals (replacement of, or addition to, the Project Staff named below shall be accomplished only by prior written approval from the Contracting Agency:

<b><u>Name</u></b>	<b><u>Project Responsibilities</u></b>
Name	Contract Management
Name	Project Management
Name	Civil Engineering
Name	Electrical Engineering
Name	Structural Engineering (T License)
Name	Foundation Engineering (C or T License)
Name	Utilities Agreements

Project Staff for Potential Additional Contractor Tasks:

<b><u>Name</u></b>	<b><u>Project Responsibilities</u></b>
Name	Surveying
Name	Hydrologic and Hydraulic Design
Name	Public Involvement
Name	Traffic and Safety Analysis

**B4.3 Professional Registration.** All reports, plans, specification, estimates and similar work products provided by the Contractor shall be prepared by or under the supervision of an Engineer or Land Surveyor currently registered in Alaska.

**B4.4 Billing Reports.** The Contractor shall provide a two-page (typical) report with each monthly billing for months in which services are performed. Billings will be submitted no later than the 15<sup>th</sup> of each month. Any delayed costs from previous billing periods that are included in the current billing must be clearly explained in the report.

**B4.5 Correspondence.** All correspondence prepared by the Contractor shall bear the Contracting Agency's assigned Project name and numbers (State & Federal).

**B4.6 Documents and Reports** shall be printed with solid black letters that are double spaced on white, 8.5 inch x 11 inch bond or "Xerox Copy" paper. Other size paper may be used for illustrations if they are folded to 8.5 inch x 11 inch size. Original documents and reports shall be printed on one side of the paper only and shall be ready for copying. Original, camera ready, copies of final documents and reports shall be submitted to the Contracting Agency for a check before printing. All final documents and reports shall also be submitted as document files for Microsoft Word 2010 or compatible software written for IBM compatible computers.

**B.4.6.1 Copies.** When the Contract calls for multiple copies of documents or reports, the copies shall be printed on both sides of the paper. However, the cover and pages with approved illustrations, multicolored graphics, or photographs shall be printed on one side of the page only. All copies - except for originals - shall be comb bound.

**B4.6.2 Page Numbers.** All documents shall be page numbered to allow every major Section, Chapter, Appendix, etc., to begin on a "right hand," odd numbered page.

**B4.6.3 Covers.** The cover of all documents and reports shall include the following information:

- a. Name of document or report.
- b. Date.
- c. Indicate whether draft or final.
- d. Project Name.
- e. Federal / State Project Numbers:
- f. Prepared for: Alaska Department of Transportation and Public Facilities.
- g. Prepared by:
- h. Map and/or picture of project area.

**B4.7 Contractor Name on Plan Sheets and Documents.** No Contractor logos shall be allowed on any electronic or hard copy document produced for the Contracting Agency. The Contractor company name shall be included in the box above or below the engineer's seal on each plan sheet. Documents produced for the Contracting Agency shall include the Contractor's company name at the bottom right of the first page, cover sheet or title sheet only. Contractor letterhead shall be allowed only as exhibits in document appendices. The Contractor name shall be in the same font as other lettering on the plan sheet or document, shall be 1/16" or less in height on 11"X17" plan sheets, and shall be in the following format:

PLANS DEVELOPED BY:  
COMPANY NAME  
COMPANY ADDRESS

**B4.8 Drafting** All drawings shall be submitted as AutoCAD current edition drawing files and plot files. Unless otherwise stated, the format and standards for all drawings shall be according to the most current Department of Transportation & Public Facilities (DOT&PF) Central Region English (as a guide) Highway Design Drafting Manual as of the Notice to Proceed for this contract. A standard layering scheme provided by the Contracting Agency shall be used. Failure to adhere to this scheme shall be cause for rejection. The drafting procedures shall be as outlined in the current Contracting Agency's Highway Design Drafting Manual. See Exhibit B-3.

**B4.9 Specifications** shall be submitted with solid black letters that are single spaced on white, 8.5 inch x 11 inch bond or "Xerox Copy" paper. They shall be printed on one side of the paper only and shall be ready for copying. Specifications and estimates shall contain no graphics and no photographs except as specifically approved by the Contracting Agency. All Specifications shall be developed using Microsoft Word 2010 or compatible software written for IBM compatible computers.

**B4.10 Estimates** Develop the Engineer's Estimate in the AASHTO Ware program. The Contracting Agency will provide access to, and instruction documentation for, the program.

**B4.11 Quantity Calculations.** Quantity calculation information shall contain sufficient information to allow the quantity for each item to be checked by starting at the source document. Reference the source document(s) for each pay item. These Documents shall be referenced to the applicable pay item. Submit in loose leaf, 3-ring binders. If more than one binder is necessary, number them and include a table of contents in the first binder. Label all binders with the State and Federal project numbers and an indication of the contents, both on the spine and on the front cover. Provide dividers to clearly mark the location of specific items within each binder.

**B4.12 Proofreading.** The Contractor shall prepare the report(s), which to the greatest extent possible, free of mathematical, grammar, spelling and typographical errors. The Contractor is responsible for professional proofreading of the report(s) to meet the intent of this requirement.

**B4.12.1 Quality Assurance Memo.** Provide with each submittal a Quality Assurance memo signed by the person in responsible charge for the project and the Contractor's Project Manager, certifying that they have performed a quality control check on the items included in the submittal. A memo template will be provided by the Contracting Agency upon request.

**B4.13 Revisions.** The Contractor shall modify work products in response to direction from the Contracting Agency. Corrections, adjustments, or modifications necessitated by the review/approval process, but which do not substantially affect the scope, complexity, or character of the services, shall be considered a normal part of the Contractor's services.

**B4.13.1 Errors and Omissions.** Except as described in this Statement of Services, work products shall be essentially complete when submitted to the Contracting Agency. Work products having significant errors or omissions will not be accepted until such problems are corrected.

**B4.13.2 Review Meetings.** Following each review, the Contracting Agency will provide written comments and may hold a meeting to discuss the issues. The Contractor's personnel who are in-responsible-charge for the work products under review shall attend the meeting and they may be asked to interpret and provide explanations of the content.

**B4.13.3 Comment Resolution.** The Contractor shall provide a written response with subsequent submittals that address all written and oral comments from the Contracting Agency. All changes from previous submittals shall be clearly explained.

**B4.14 Reproduction and Distribution.** When the contract requires only the original or only one copy of a work product to be delivered, the Contracting Agency will reproduce and distribute any other copies required. Items delivered for reproduction shall be organized and camera ready for copying and not stapled or otherwise bound.

## **ARTICLE B5 MANAGEMENT**

**Note:** *This Article shall not be treated as a distinct task. Costs associated with the services described in this Article shall be apportioned among the tasks required to accomplish the requirements.*

**B5.1 Performance Schedule.** A Project Schedule is attached as **Exhibit B-2**. The Contractor agrees to expend all effort necessary to stay on schedule and meet the contract delivery dates. If the Contractor becomes aware of any reason why the project schedule may be delayed, such reason shall be identified in writing to the Contract Manager within two working days of discovery.

Provide and maintain a critical path method progress schedule for the project. Use this schedule for coordinating and monitoring all work of the Contract.

**B5.1.1 Meetings / Reports.** The Contractor shall schedule and attend periodic briefing meetings (generally every other week) with the Contract Manager. Various members of the Contractor's support staff and subcontractor staff shall also attend, if necessary. The Contractor shall be responsible for

providing timely information required for the project related services performed by the functional groups within the Contracting Agency. The Contractor shall provide "exception reporting" of scheduled activities that are late, suspended, or significantly accelerated. The Contractor shall explain why any activity is off schedule, or likely to become so. The Contractor shall also explain what corrective action(s) are being taken. The Contractor shall keep minutes of all meetings and submit them to the Contract Manager within five workdays following each meeting.

**B5.2 Project Coordination.** All coordination and correspondence for the project shall be handled through or with the concurrence of the Contract Manager.

**B5.2.1 FHWA Communication.** All communications with FHWA regarding this project shall be by the Contracting Agency.

**B5.2.2 Contracting Agency Activities.** Except as specified otherwise, the Contract Manager will coordinate the Contractor's activities with those of various functional groups within the Agency. These groups may include Materials/Geotechnical; Planning; Traffic, Safety & Utilities; Preliminary Design & Environmental; Right-of-Way; Bridge; Specifications and Cost Estimating; and Contracts. The Contractor shall be responsible for providing timely information required for the project related services performed by the functional groups within the Contracting Agency.

**B5.2.3 Agency and Public Coordination.** The Contractor shall not commit the Contracting Agency to any action to be accomplished by the proposed project.

**B5.2.4 Correspondence.** The Contractor shall submit all written material, letters, survey forms, etc., used to communicate information regarding the project to the Contract Manager for review and acceptance prior to its distribution. Copies of all outgoing and incoming correspondence shall be provided to the Contract Manager at least once a week. All outgoing correspondence shall include the project title and state and federal project numbers.

**B5.2.5 Release of Information.** The release of any project-related information must be approved by the Contract Manager.

**B5.2.6 Right-of-Entry Permits.** The Contracting Agency will obtain Right-of-Entry authorizations for the Contractor, when required. The Contractor shall provide a minimum of 10 working days advance notice for the Agency to acquire any authorization. Should the authorizations take additional time to obtain, performance schedule(s) may be adjusted accordingly. The Contractor shall not be entitled to any additional compensation for any delay incurred in obtaining Right-of-Entry Permits.

## **ARTICLE B6** **PROJECT LOCATION AND DESCRIPTION**

**B6.1 General.** This project will demolish an existing RWIS tower and install a new Roadway Weather Information System (RWIS) in the nearby vicinity. The existing tower is located on ARRC ROW on the far side of the railroad tracks from the Seward Highway at MP 111.8. See Exhibit B-1, Project Location Map. The new RWIS tower shall be in the nearby vicinity but within DOT&PF ROW. The purpose of this project is to coordinate the relocation of the existing RWIS sensors and cameras from the existing tower to the proposed tower. Agreements shall be made with Alaska Department of Natural Resources, Alaska Railroad Corporation (ARRC), and Chugach Electric Association Inc. and any other utilities as required for this work.

## **ARTICLE B7** **SUMMARY OF CONTRACT SERVICES**

**B7.1 General.** When authorized by a Notice to Proceed the Contractor shall provide the following services: Design Services, which are anticipated to include a Reconnaissance Engineering Study, Erosion and Sediment Control Plan, Plans, Specifications and Estimates (PS&E), Assistance with Design Project Closeout, and Utility Agreements. Assistance During Bidding and Construction shall also be provided. The Contracting Agency reserves the right to negotiate and add services for: Surveying, Hydrologic and Hydraulic Design, Public Involvement, and Traffic and Safety Analysis by amendment; however, they are under no obligation to do so and reserves the right to complete the services by any other means, including the use of in house forces.

The Contracting Agency anticipates DOT&PF staff will perform the Environmental Activities. The Contracting Agency anticipates the following tasks will not be required for this project: Right of Way Mapping, Geotechnical Investigation/Recommendations, and Right of Way Appraisal and Acquisition Services.

**ARTICLE B8**  
**RECONNAISSANCE ENGINEERING STUDY**  
**Task 1**

**B8.1 Purpose.** The purpose of this task is to perform a preliminary engineering for the RWIS ESS site that will include a list of environmental sensors and CCTV camera needs, equipment cabinet and support structure needs, identify communication and power sources, site access, aesthetics, safety, security, utility conflicts, and siting metadata.

**B8.2 Data Collection.** The Contractor shall collect available roadway as-builts, record drawing information furnished by the Department; and other available sources. This information will be used to develop a design base drawing for the RWIS ESS site. The Department will provide a list of environmental sensors and CCTV camera that will be installed on the tower.

**B8.3 Site Visit.** After a design base drawing for the RWIS ESS site is completed, the Contractor shall visit the site to perform a site survey to determine and stake the placement of the ESS. And to assess utility conflicts, reference section B25.

**B8.3.1** Unless otherwise directed by the Department, the Contractor shall use the FHWA "Road Weather Information System Environmental Sensor Station Siting Guidelines, Version 2.0", November 2008, and the FHWA "Implementation and Evaluation of RWIS ESS Siting Guide, Final Report, November 2008, as a guide for conducting the site surveys.

**B8.3.2** The collected site survey information shall include distance of the ESS from edge of pavement and traveled way (fog line), site terrain, terrain coverage (vegetation), standing water/drainage collection areas, presence of underground and above ground utilities, security concerns, and maintenance access. In conjunction with researching the Department's materials database, a geologic reconnaissance (no subsurface investigations) will be performed to aid in the design of the pole/support structure foundations.

**B8.4 Preliminary Engineering Design.**

**B8.4.1** Using information from prior Tasks, the Contractor shall prepare schematic plans that represents about a 25% level design and will provide enough detail to identify construction limits at the RWIS ESS location, as well as any needed load centers, and commercial power source locations. This work will also quantify the extents of the improvements and construction cost estimates.

**ARTICLE B9**  
**ENVIRONMENTAL ACTIVITIES**  
**Task 2**  
**(NIC)**

**ARTICLE B10**  
**RESERVED**  
**Task 3**  
**(NIC)**

**ARTICLE B11**  
**SURVEYING**  
**Task 4**  
**(NIC)**

**ARTICLE B12**  
**RIGHT OF WAY MAPPING**  
Task 5  
(EXC)

**ARTICLE B13**  
**GEOTECHNICAL INVESTIGATIONS/RECOMMENDATIONS**  
Task 6  
(NIC)

**ARTICLE B14**  
**HYDROLOGIC AND HYDRAULIC DESIGN**  
Task 7  
(NIC)

**ARTICLE B15**  
**ELECTRICAL DESIGN**  
**TASK 8**

**B15 Electrical.** Provide electrical design by a qualified electrical engineer registered in the state of Alaska to accomplish the scope of the project including power supply for RWIS tower equipment and for DNR campground host.

**ARTICLE B16**  
**TRAFFIC AND SAFETY ANALYSIS**  
Task 9  
(NIC)

**ARTICLE B17**  
**STRUCTURAL DESIGN**  
Task 10

**B17 Structural.** Provide structural design by a qualified structural engineer registered in the state of Alaska to accomplish the scope of the project including tower specifications and equipment mounts.

**ARTICLE B18**  
**FOUNDATION DESIGN**  
Task 11

**B15 Foundation.** Provide foundation design by a qualified foundation engineer registered in the state of Alaska to accomplish the scope of the project including tower foundation specifications.

**ARTICLE B19**  
**DESIGN STUDY REPORT**  
Task 12  
(NIC)

**ARTICLE B20**  
**PUBLIC INVOLVEMENT**  
**Task 13**  
**(NIC)**

**ARTICLE B21**  
**RESERVED**  
**Task 14**  
**(NIC)**

**ARTICLE B22**  
**EROSION AND SEDIMENT CONTROL PLAN**  
**Task 15**

**B22.1 General** Provide an Erosion and Sediment Control Plan (ESCP) in accordance with the Contracting Agency's ESCP Template and associated instructions. All temporary erosion and sediment controls are shown in this Plan instead of in the Contract Plans.

**B22.2 Deliverable Items.**

<u>Type of Document</u>	<u>Paragraph</u>	<u>Hard Copies</u>	<u>'pdf' Copies</u>	<u>.dwg file</u>
ESCP				
Draft	B22.1	1	1	1
Final	B22.1	1	1	1

**B22.3 Provided Items** The Contracting Agency will provide the following:

1. Erosion and Sediment Control Plan Template

A sample Erosion and Sediment Control Plan is available from the Contracting Agency by request.

**ARTICLE B23**  
**PLANS, SPECIFICATIONS AND ENGINEER'S ESTIMATE**  
**Task 16**

**B23.1 General.** Provide construction contract documents and other deliverables as described herein. The project design must be a best accommodation of the geographic location and the site specific constraints, as well as the project values and other constraints as defined by the Contracting Agency.

**B23.2 Curb Ramp Data and Analysis.** Include the measurements taken of existing curb ramps, showing which require upgrade

**B23.3 Support Data.** Throughout the design phase, provide data in support of the Contracting Agency activities related to the project design. This includes but is not limited to the following.

**B23.3.1 Topography Survey Needs** Provide a Survey Request form and figure(s) showing where further topographic survey is required in order to design the project or to determine any necessary or recommended property rights acquisitions or alterations to existing utilities. After the initial list is provided, update it as necessary as the design progresses.

**B23.3.2 Right of Way Survey Needs** Provide a Survey Request form and figure(s) showing locations and areas where survey confirmation of location of the Right of Way is necessary in order to determine the need for additional property rights acquisition.

**B23.3.3 Data and Figures** required by Contracting Agency Support Groups, for example for environmental permitting or Right of Way negotiations.

**B23.3.4 CAD Files** with required disclaimers, for use by utility companies or others, as approved by the Contract Manager.

**B23.3.5 Cross-sections.** Include the following in each cross-section: original ground, the roadway template, right of way limits, grid lines, labels for offsets and elevations, and the roadway station for which it is applicable. Plot the cross sections at a standard scale and with no vertical exaggeration. Include on each sheet the project name, project number, date and review submittal. Submit the half size cross sections on 11" by 17" sheets.

## **B23.4 Plan Sheets.**

### **B23.4.1 Not Used**

**B23.4.2 Utility Plan Sheets**, if needed, will be provided by others. Incorporate Utility Plans into the Plan set.

**B23.4.3** Develop **Right of Way Lines**, using the best available information, on the Plans.

**B23.5 Specifications.** The Contracting Agency will provide a current copy of the Standard Modifications, Statewide Special Provisions and Regional Special Provisions to the Standard Specifications for Highway Construction. Combine the Standard Modifications and Special Provisions for the PS&E assemblies. Use the format described in Exhibit B5.

Incorporate Project specifications for Bridge, Utility, and/or other work into the Project Specifications.

Continually update the Specifications per updates to the Statewide Special Provisions and Regional Special Provisions.

Prepare any project specific special provisions. Whenever possible, use Performance Specifications rather than Method Specifications.

Notify the Contract Manager if you discover any potential need for sole source or proprietary items. Do not specify any proprietary items unless at least two are named. If "or equivalent" is used, specify the criteria for judging the equivalence. Do not specify sole source materials unless a sole source procurement authorization is obtained.

**B23.5.1 Appendices to the Specifications.** Provide the following as appendices to the Specifications.

- a. Materials Certification List
- b. Sign Shop Drawings

**B23.6 Engineer's Estimate (EE).** Develop the EE using the AASHTOWare program. Use standard pay items unless there is a specific reason to use special ones. The Contracting Agency will provide pay item numbers for items not listed in the Standard Specifications if needed. Provide estimated unit prices and total estimated costs for all items.

The Contracting Agency will make its historical records available for the determination of unit prices using the DOT&PF BidTab IV program. Sign and date the EE.

The Engineer's Estimate must remain confidential until after construction bids are opened.

**B23.7 Submittal Packages and Reviews.** The Contract Manager may review the submittal package and require changes, corrections and/or clarifications, and a re-submittal.

**B23.7.1** Your **Preliminary Engineering Design Package** must consist of plans 25% complete, an updated estimate, a full set of cross-sections and any other deliverables specified for delivery with the preliminary engineering design in other Articles of this contract.

**B23.7.1.1 Initial Comment Responses.** The Contracting Agency will provide written comments on the Preliminary Engineering Design submittal. Provide written responses to as many of the comments as practicable, at least one day before the review meeting. Indicate which comments require further information or coordination.

**B23.7.1.2 A Preliminary Engineering Design Review Meeting** will be held a few weeks, typically four weeks, after the submittal is received. The Contractor's Project Manager, Project Engineer, and staff who are in-responsible-charge of relevant design disciplines must attend.

**B23.7.1 Not Used**

**B23.7.2 Not Used**

**B23.7.3 Your PS&E Review Submittal Package** must consist of complete plans, specifications, Special Notice to Bidders, a basic construction schedule, a full set of cross-sections (if available), the engineer's estimate, and the following:

- a. A brief report of significant changes made to the assembly after the Preliminary Engineering Design Review Meeting (if applicable).
- b. Draft Erosion and Sediment Control Plans, including sheets.
- c. Draft traffic control documents as required by the HPCM which is anticipated to be the standard 'information for contractors' TCP which includes a cover sheet and standard TCP details.
- d. A technical memo describing all non-standard features on the project, and the reason(s) for them. (If applicable)

**B23.7.3.1 Initial Comment Responses.** The Contracting Agency will provide written comments on the PS&E submittal. Provide written responses to as many of the comments as practicable before the review meeting. Indicate which comments require further information or coordination.

**B23.7.3.2 NIC A Field Review** will be held after the PS&E submittal. The Contractor's Project Manager, Project Engineer, and staff who are in-responsible-charge of relevant design disciplines must attend.

**B23.7.3.3 A PS&E Review Meeting** will be held a few weeks after the submittal is received. The Contractor's Project Manager, Project Engineer, and staff who are in-responsible-charge of relevant design disciplines must attend.

**B23.7.4 Your Certification Set Submittal** must consist of the following:

- a. Plans essentially complete. The Contract Manager may direct that some minor work/revisions need not be included in this set.
- b. Specifications essentially complete. The Contract Manager may direct that some minor work/revisions need not be included in this set.
- c. Engineer's Estimate essentially complete.
- d. Final responses to all comments made on the design.
- e. Final Railroad Crossing Certification for each railroad crossing within the project limits.

**B23.7.4.1** Revise the certification set deliverables per Contract Manager direction.

**B23.7.5 Your Advertisement Package** must consist of the items listed below.

- a. Complete, signed and sealed Plans
- b. Complete Specifications including Appendices
- c. Signed Engineer's Estimate
- d. Special Notice to Bidders
- e. Full set of cross-sections (if available)
- f. Completed Highway Design Checklist
- g. Completed Traffic Control documents
- h. A brief report of significant changes made to the assembly after the PS&E Review meeting, but which were not discussed at that meeting. (If applicable)
- i. Final responses to all comments made on the design (if updates are required after the Certification Set submittal).
- j. Final Erosion and Sediment Control Plans, including sheets
- k. Letter describing any unusual design features, and the reasons for them. (If applicable)
- l. Quantity Calculations in accordance with the B4.11 and Highway Design Checklist
- m. Completed FHWA or State Funded Projects Division 100/645 & Contracts Checklist

**B23.7.5.1** Revise the advertisement set deliverables per Contract Manager direction.

**B23.8 Deliverables**

<b><u>Type of Document</u></b>	<b><u>Para</u></b>	<b><u>Hard Copies</u></b>	<b><u>.PDF</u></b>	<b><u>AutoCAD Word</u></b>
Data and Figure(s) for Support Groups	B23.3.3	1	1	1
CAD Files for Support Groups	B23.3.4	1		
Cross-Sections	B23.3.5	1	1	
Preliminary Engineering Design Review Submittal	B23.7.1	2	1	
Preliminary Engineering Design Review Initial Comment Responses	B23.7.1.1	20	1	
PS&E Review Submittal	B23.7.3	2		
PS&E Review Initial Comment Responses	B23.7.3.1	20	1	
Certification Submittal	B23.7.4	4	1	
Advertisement Package	B23.7.5	2	1	

**ARTICLE B24**

**RESERVED**

**Task 17**

**(NIC)**

**ARTICLE B25**

**UTILITIES AGREEMENTS**

**Task 18**

**B25.1 Design Field Locates.** In advance of site visit have all utilities perform field locates. Review all field locates during site visit. Add utility locations to the plans.

**B25.2 Utility Conflict Report.** Provide Draft(s) and Final, including: the existing utilities within the project limits; the conflicts with the proposed work; and the consideration of impacts on construction. Include the following:

- a. Plan Sheets
- b. List of utility conflicts
- c. Proposed solutions to all utility conflicts

**B25.2.1 Plan Sheets.** Information on the plan sheets shall include the following.

- a. existing utilities
- b. proposed improvement
- c. existing Right-of-Way limits
- d. any structures affected by proposed construction

Identify the size and type of existing utilities within the project limits. Base locations of existing utilities on the following in order of preference.

- a. field site visit,
- b. as-built drawings,
- c. utility system maps.

**B25.2.2 List of Utility Conflicts.** List all conflicts and identify the company that owns the utility in conflict.

**B25.2.3 Proposed Solutions to all Utility Conflicts.** Locate the new tower and power supply for the new tower such as to not require utility relocation.

**B25.3 Not Used**

**B25.4 Prepare notice to relocate and authority to proceed with preliminary engineering.** ARRC has been issued authority to proceed with engineering already. Currently, CEA authorization for preliminary engineering will depend on the scope of their services to provide power.

#### **B25.5 Not Used**

**B25.6** Provide utility one-line designs and draft special provisions for the **PS&E Review assembly**.

**B25.7** Prepare **authority to proceed (ATP) through final design and estimate letter** to each utility.

**B25.8 Coordination with Utilities.** Conduct coordination activities and provide all information required to develop, and secure: design of the CEA line extension, coordination of project activities with ARRC, ARRC permits, and permit with DNR for power supply easement. Include the Contract Manager and/or design staff in this coordination at the level as directed by the Contract Manager.

Do not commit the Contracting Agency to any action without prior written approval of the Contract Manager.

Make the Utility Conflict Report, Cross Sections, other reports, and the PS&E assemblies produced for this project available to the utility companies. Provide assistance interpreting these documents and sharing other information about this project.

**B25.9 Utility Relocation Agreements.** The purpose of the Utility Relocation Agreement is to provide for the relocation or adjustment of utility facilities in conflict with the proposed project. An Agreement may also be required to secure a utility provided service for the project, to work in ARRC ROW, and to route power across DNR land.

Include the following in the Utility Relocation Agreements.

- a. The Contracting Agency contract format for the appropriate agreement type.
- b. The billing format specific to the project.
- c. An estimate of cost, to be designated Exhibit A. The cost estimate shall separate federal participating and non-participating funds and indicate obligation of payment by utility companies or the Contracting Agency. The cost estimate shall include all utility relocations, constructed by the utilities or included in the PS&E package.
- d. A certificate of finding and project scope, to be designated Exhibit B.
- e. Utility design plans to be included in the PS&E package and project plans showing existing and proposed utilities, to be designated Exhibit C.
- f. Special provisions to be included in the PS&E specific to the utility relocation and coordination, to be designated Exhibit D.
- g. Utility plans not included in the PS&E package, to be designated Exhibit E.

**B25.9.1** Provide **Draft Utility Agreements** when the Contracting Agency has agreed to the utility company design and cost proposals.

**B25.9.2** Provide **Final Utility Agreements** in accordance with review of the Draft Agreements by the Contracting Agency.

**B25.10** Prepare **Standard Specifications Section 105, Control of Work** special provisions for inclusion in Plans, Specifications and Estimate package.

**B25.11 Reviews and Schedule.** Unless directed otherwise by the Contract Manager, submit deliverables as follows.

- a. First Draft Utility Conflict Report with the Preliminary Engineering Design
- b. Final Utility Conflict Report with the PS&E Review assembly. Indicate which conflicts have been resolved.
- c. Final Utility Relocation Agreements signed by the utilities as soon as available.

**B25.12 Deliverable Items.**

<u>Type of Document</u>	<u>Para</u>	<u>Copies</u>	<u>Originals</u>	<u>PDF</u>
Utility Conflict Report				
Draft 1	B25.2	1	1	1
Final	B25.2	1	1	1
Notice Letter/ATP	B25.4	1	1	1
PS&E Assembly items	B25.6	1	1	1
ATP Final Design	B25.7	1	1	1
Utility Relocation Agreements				
Draft Agreements	B25.9.1	1	1	1
Final Agreements	B25.9.2	1	1	1
Section 105 Control of Work	B25.10	1	1	1
Signed Agreements	B25.11	1	1	1

**B25.13 Provided Items.** The Contracting Agency will provide the following:

- a. Sample Utility Cost Estimate.
- b. Sample Utility Agreement.

**ARTICLE B26**  
**RIGHT OF WAY APPRAISAL AND ACQUISITION SERVICES**  
**Task 19**  
**(NIC)**

**ARTICLE B26**  
**RIGHT OF WAY APPRAISAL AND ACQUISITION SERVICES**  
**Task 19**  
**(NIC)**

**ARTICLE B27**  
**ASSISTANCE DURING BIDDING**  
**Task 20**

**B27.1 General.** Assist the Contracting Agency as requested during project bidding. Personnel who were in responsible charge for engineering, and other personnel as necessary and appropriate, must be available to interpret and clarify documents prepared during project development and to assist the Contracting Agency with preparing any necessary addenda to the bid documents. Do not communicate about this project with any potential bidders.

<u>Type of Document</u>	<u>Hard Copies</u>	<u>.PDF</u>
Addenda (as required)	1	1

**ARTICLE B28**  
**ASSISTANCE WITH DESIGN PROJECT CLOSEOUT**  
**Task 21**

**B28.1 ADA Transition Plan Information.**

**Not used.**

**B28.2 As-Awarded CAD files.** Within four (4) weeks after the bids are opened for the construction contract, provide all CAD files for the project, in accordance with the Central Region Highway Design Project Closeout Guide.

**B28.3 Completion Documentation.** Submit the original of all documents prepared by the Contractor during project development. These documents include all notes, sketches, maps, photographs, survey data, computations, cross sections, meeting and site visit notes, and other materials created to develop, record, or justify services provided for the project. Identify all assumptions made in the documentation. Keep a copy of all the development documents until construction is complete.

**B28.3.1** Documents created to determine pay item quantities must contain sufficient information to allow the quantity for each pay item to be checked by starting from the source document. Reference these documents to the applicable pay item.

**B28.3.2** Provide electronic copies of **photographs** on disks or other media approved by the Contracting Agency.

**B28.4** Submit a WORD document of the **as awarded project specifications**.

**B28.5** Provide a **Public Involvement Report**, describing and documenting all public involvement activities employed on the project.

**B28.6** Provide **DSR Amendments Information** as required. These may include, but are not limited to:

- a. Copies of, and indexes of, project correspondence.
- b. The Public Involvement Report, as defined in Article B20
- c. Memos or letters documenting design decisions
- d. Other updates or changes as necessary

**B28.7 Deliverables**

<u>Type of Document</u>	<u>Para</u>	<u>Hard Copies</u>	<u>Electronic</u>
As Awarded CAD files	B28.2	1	1
General Project Files	B28.3	1	1
Electronic Copies of Photographs	B28.3.2	1	1
As Awarded Specifications	B28.4.3	1	1
Public Involvement Report	B28.5	1	1
DSR Amendment Information	B28.6	1	1

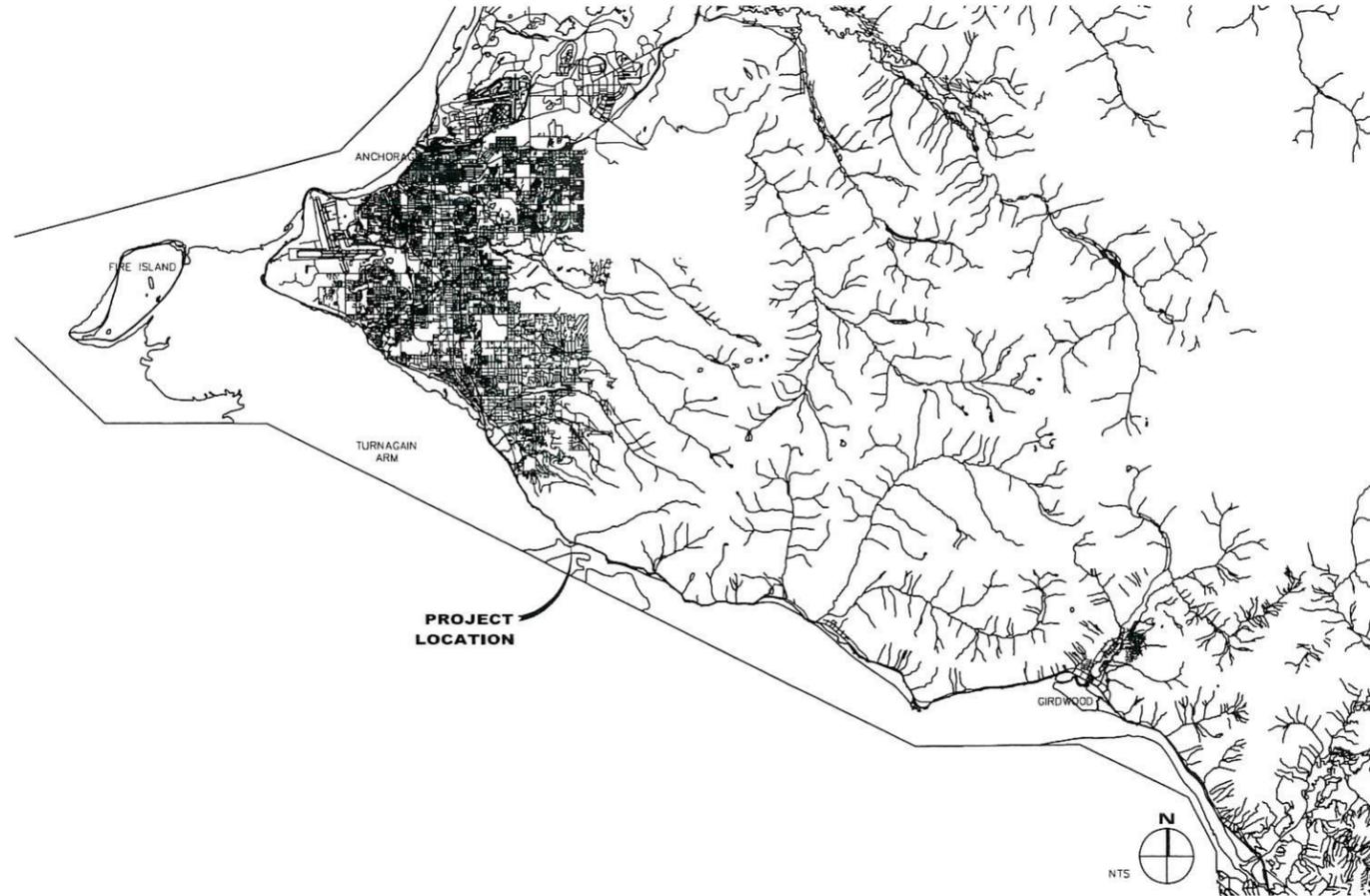
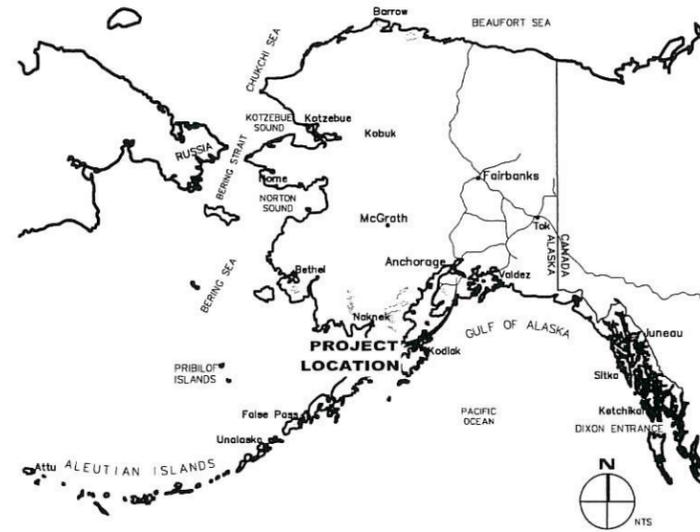
**ARTICLE B29**  
**ASSISTANCE DURING CONSTRUCTION**  
**Task 22**

**B29.1** Provide **assistance** to the Contracting Agency as requested during project construction. Personnel who were in responsible charge for engineering, and other personnel as necessary and appropriate, must be available to interpret and clarify documents prepared during project development and bidding; to review and approve shop drawings, electrical materials/catalog cuts submittals, retaining wall forming plans, trench stability designs, and landscaping materials and procedures; and to assist the Contracting Agency with preparing any necessary change order documents.

**B29.2** All **communication** about this project must be through the Contracting Agency. Do not communicate directly with the successful bidder.

**B29.3 Documents.** Within a month after the Contracting Agency accepts the constructed project, submit to the Contracting Agency the original of all documents prepared or modified when performing the services for this task.

# EXHIBIT B-1 Project Location Map



VICINITY MAP

## SHEET INDEX

- GENERAL
- G100 COVER SHEET
- CIVIL
- C101 CIVIL SITE PLAN
- C102 POLE DETAIL
- STRUCTURAL
- S100 STRUCTURAL NOTES
- S200 PLAN, DEMOLITION AND STRUCTURAL DETAILS
- S201 DEMOLITION DETAILS
- ELECTRICAL
- E001 ELECTRICAL LEGEND AND SPECIFICATIONS
- E101 POWER ONE-LINE DIAGRAM
- E102 ELECTRICAL SITE PLAN

## PROJECT TEAM

**ARCHITECTURE:**  
BETTISWORTH NORTH ARCHITECTS  
PHONE: (907) 561-5780  
CONTACT: DENA STRAIT, RA  
EMAIL: dstrait@bettisworthnorth.com

**STRUCTURAL:**  
R&M CONSULTANTS, INC.  
PHONE: (907) 522-1707  
CONTACT: JOSHUA CROWE, P.E.  
EMAIL: jcrowe@rmconsult.com

**MECHANICAL:** N/A

**ELECTRICAL:**  
RSA ENGINEERING, INC.  
PHONE: (907) 276-0521  
CONTACT: FRANK SILBERER, P.E.  
EMAIL: fsilberer@rsa-ak.com

**SPECIAL INSPECTIONS:**  
R&M CONSULTANTS, INC.  
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CONTACT: LENNY PIERCE  
EMAIL: LPierce@rmconsult.com

**LANDSCAPE:**  
BETTISWORTH NORTH ARCHITECTS  
PHONE: (907) 561-5780  
CONTACT: MARK KIMERER, LA  
EMAIL: mkimerer@bettisworthnorth.com

**COST ESTIMATING:**  
HMS, INC.  
PHONE: (907) 561-1635  
CONTACT: EHSAN MUGHAL  
EMAIL: ehsan@hmsalaska.com

McHUGH RWIS PAVEMENT SENSOR UPGRADE  
(DOT&PF PROJ NO. CFHWY00428)

DEPARTMENT OF TRANSPORTATION and PUBLIC FACILITIES  
2200 E 42ND AVENUE, ANCHORAGE ALASKA 99508

95% CONSTRUCTION DOCUMENTS

ARCHITECT: BETTISWORTH NORTH  
2600 DENALI STREET SUITE 710 ANCHORAGE, ALASKA 99503 (907) 561-5780  
212 FRONT STREET FAIRBANKS, ALASKA 99701 (907) 456-5780  
CORPORATE No. AECC219 WWW.BETTISWORTHNORTH.COM

CONSULTANT:

PROJECT NO: 17-205  
DATE: 04/05/2019  
DRAWN BY: JLL/EJ  
CHECKED BY: DS

Symbol	Description	Date

COVER SHEET  
**G100**

**LEGEND**

RAILWAY CLEAR ZONE



ARRC RIGHT OF WAY



CONTRACTOR LAYDOWN AREA

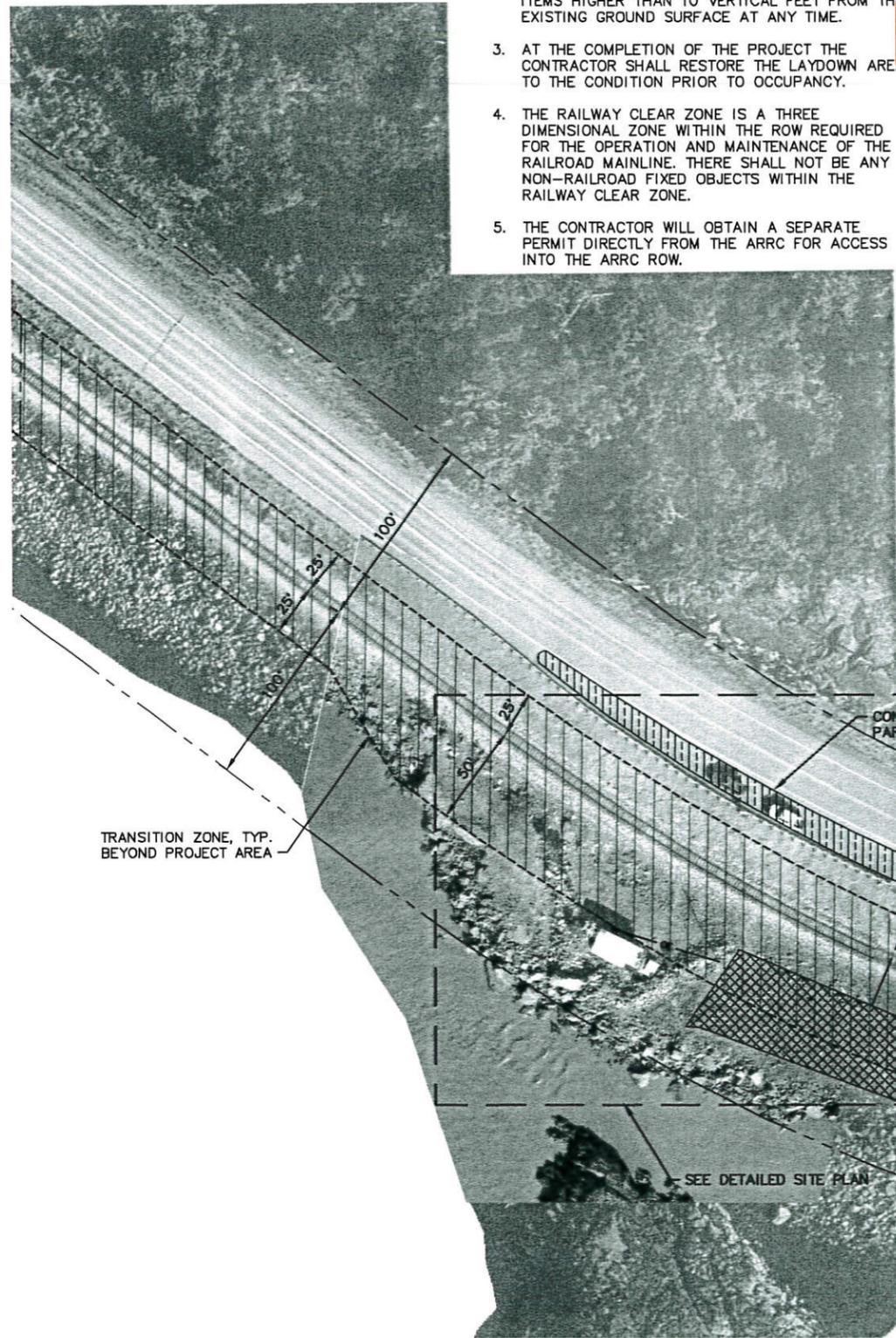


CONTRACTOR PARKING AREA



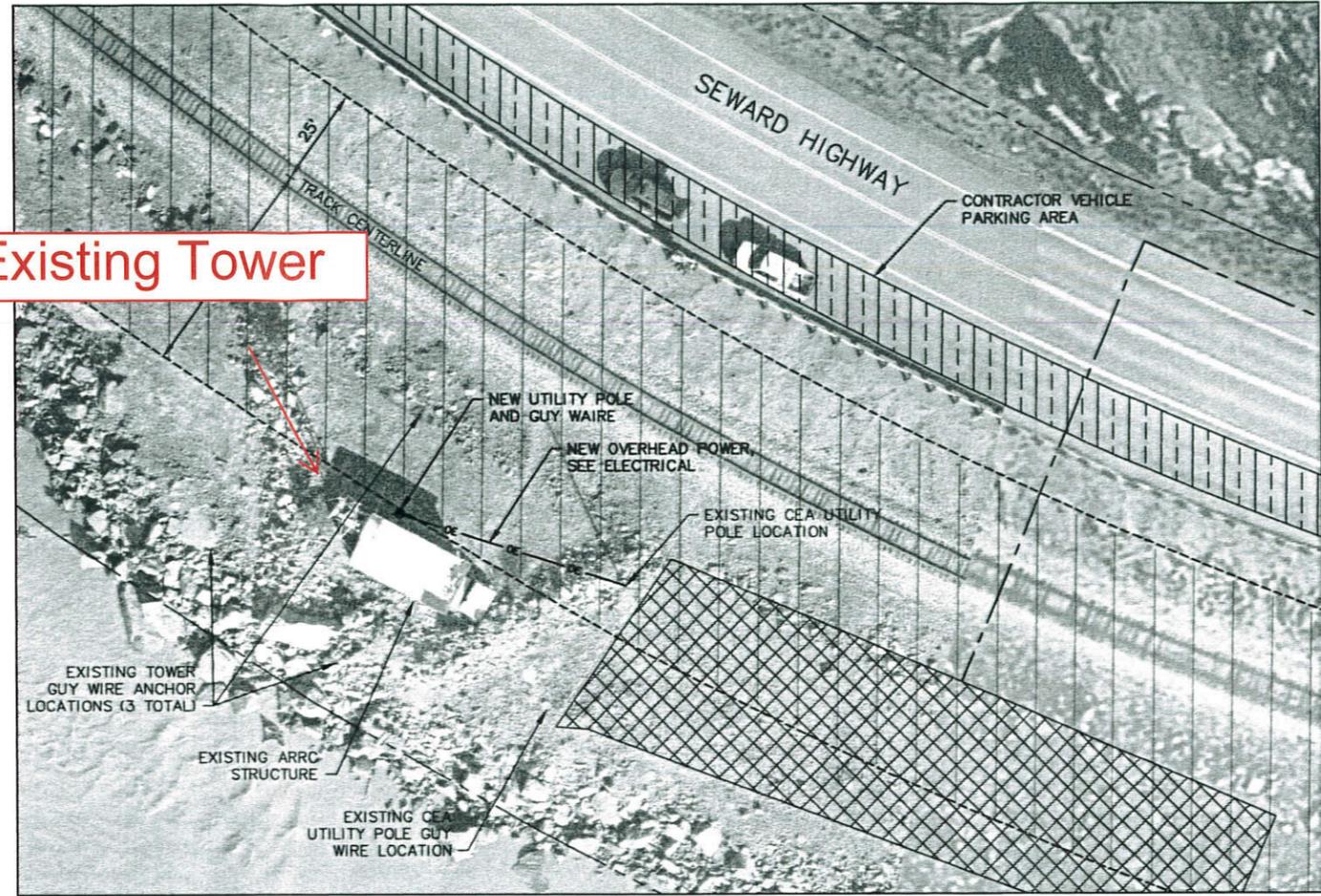
**NOTES:**

1. THE CONTRACTOR SHALL FOLLOW TO THE REQUIREMENTS IDENTIFIED IN THE TECHNICAL STANDARDS FOR ROADWAY, TRAIL, AND UTILITY FACILITIES IN THE ARRC RIGHT-OF-WAY.
2. CONTRACTOR LAYDOWN AREA OVERLAPPING THE RAILWAY CLEAR ZONE SHALL NOT BE ANY CLOSER THAN 25' FROM THE ARRC TRACK C/L NOR STORE ITEMS HIGHER THAN 10 VERTICAL FEET FROM THE EXISTING GROUND SURFACE AT ANY TIME.
3. AT THE COMPLETION OF THE PROJECT THE CONTRACTOR SHALL RESTORE THE LAYDOWN AREA TO THE CONDITION PRIOR TO OCCUPANCY.
4. THE RAILWAY CLEAR ZONE IS A THREE DIMENSIONAL ZONE WITHIN THE ROW REQUIRED FOR THE OPERATION AND MAINTENANCE OF THE RAILROAD MAINLINE. THERE SHALL NOT BE ANY NON-RAILROAD FIXED OBJECTS WITHIN THE RAILWAY CLEAR ZONE.
5. THE CONTRACTOR WILL OBTAIN A SEPARATE PERMIT DIRECTLY FROM THE ARRC FOR ACCESS INTO THE ARRC ROW.



**OVERALL SITE PLAN**

40' 0 40' 80'



**DETAILED SITE PLAN**

20' 0 20' 40'

**New tower anticipated to be installed along road edge of parking lot.**



**McHUGH RWIS TOWER UPGRADE**  
 (DOT&PF PROJ NO. CFHWY00428)  
 DEPARTMENT OF TRANSPORTATION and PUBLIC FACILITIES  
 2200 E 42ND AVENUE, ANCHORAGE ALASKA 99508

CONSULTANT:

PROJECT NO: 73605.04  
 DATE: 8/6/19  
 DRAWN BY: KEG  
 CHECKED BY: MS

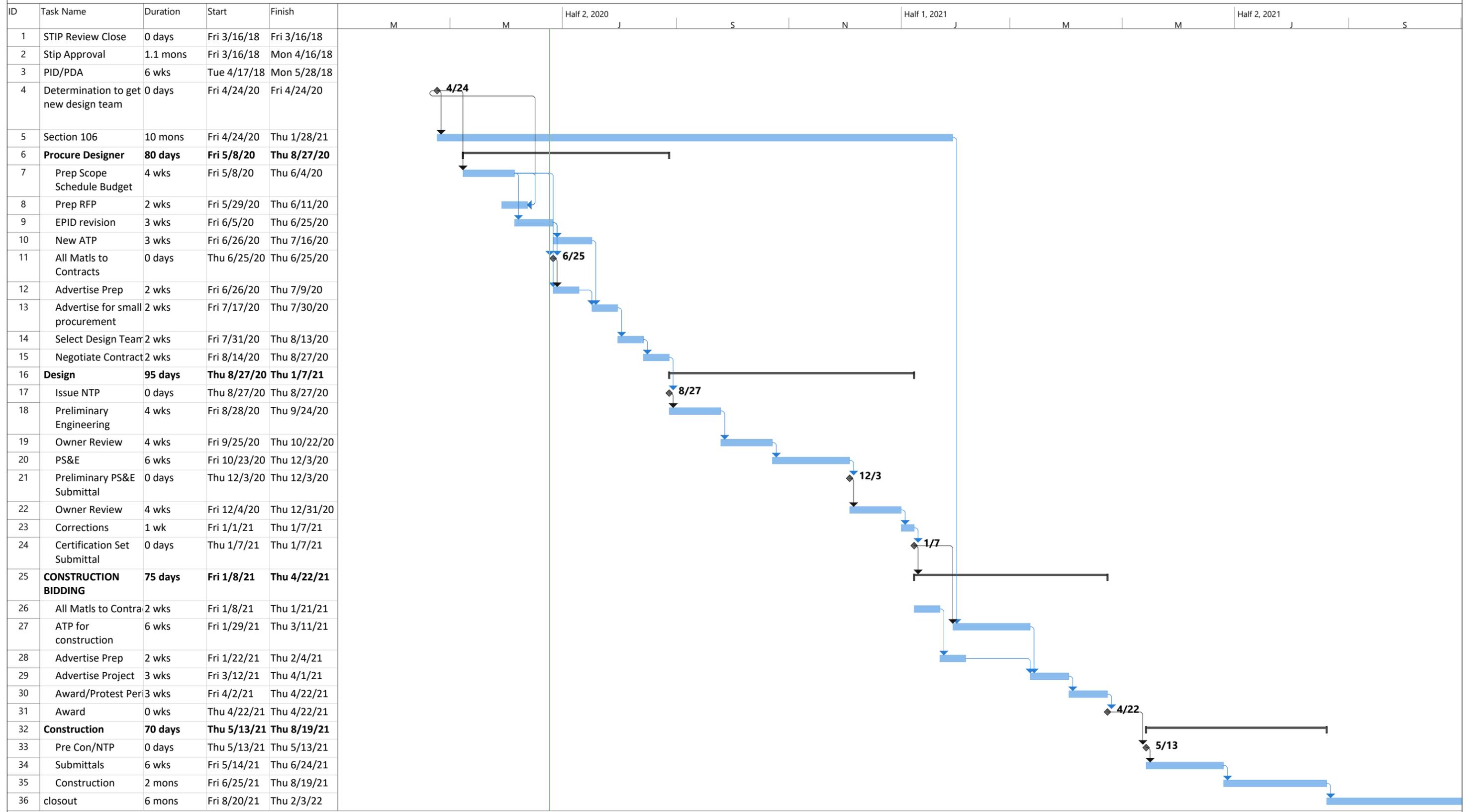
Symbol	Description	Date

CIVIL SITE PLAN  
**C101**

ARCHITECT: BETTISWORTH NORTH  
 2600 DENALI STREET SUITE 210, ANCHORAGE, ALASKA 99503 (907) 561-5780  
 312 FRONT STREET FAIRBANKS, ALASKA 99701 (907) 456-5780  
 CORPORATE No. AEC2319 WWW.BETTISWORTHNORTH.COM

100% CONSTRUCTION DOCUMENTS

McHugh Creek RWIS Tower



Project: FencesOverall Updated  
Date: Wed 6/24/20

Task		Summary		Inactive Milestone		Duration-only		Start-only		External Milestone		Manual Progress	
Split		Project Summary		Inactive Summary		Manual Summary Rollup		Finish-only		Deadline			
Milestone		Inactive Task		Manual Task		Manual Summary		External Tasks		Progress			

## **EXHIBIT B-3**

### **HIGHWAY DESIGN STANDARDS AND GUIDELINES**

#### Office of the Federal Register (United States)

- Code of Federal Regulations, Title 23, Highways, Current Edition

#### AASHTO

- A Policy on Geometric Design of Highways and Streets, 6<sup>th</sup> Edition, 2011
- Guidelines for Geometric Design of Very Low-Volume Local Roads (ADT ≤ 400), 2001
- Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals, 6<sup>th</sup> Edition, 2013
- Roadside Design Guide, 4<sup>th</sup> Edition, 2011
- Guide for the Development of Bicycle Facilities, 4<sup>th</sup> Edition, 2012
- Guide for the Planning, Design, and Operation of Pedestrian Facilities, 1<sup>st</sup> Edition, 2004
- Roadway Lighting Design Guide, 2005
- A Guide for Achieving Flexibility in Highway Design, 1<sup>st</sup> Edition, 2004

#### ASPLS

- Standards of Practice for Professional Land Surveyors, Current Edition

#### DEC

- Alaska Storm Water Guide, 2011

#### DOT&PF

- Highway Preconstruction Manual, Current Edition
- Standard Specifications for Highway Construction, Current Edition
- Standard Modifications (Supplementary Specifications to the Standard Specifications for Highway Construction), Current Edition
- Standard Special Provisions (Statewide and Regional) to the Standard Specifications for Highway Construction, Current Edition
- Central Region Specifications Provisions – Style Guide, Current Edition
- Standard Drawings, Current Edition
- Central Region Standard Drawings, Current Edition
- Alaska Test Methods, Current Edition
- Environmental Procedures Manual, Current Edition
- Alaska Highway Drainage Manual, 2006
- Alaska Flexible Pavement Design Manual, Current Edition
- Alaska Geotechnical Procedures Manual, Current Edition
- Alaska Traffic Manual, consisting of
  - o Manual on Uniform Traffic Control Devices, FHWA, 2009 with Current Revisions
  - o Alaska Traffic Manual Supplement, 2016
- Construction Surveying Requirements, Current Edition
- Right-of-Way Manual, Current Edition
- Central Region CAD Standards & Drafting Guide, Current Edition
- Alaska Sign Design Specifications, Current Edition
- Central Region Project Closeout Guide, Current Edition
- All Policies and Procedures

FHWA

- FHWA Lighting Handbook, 2012
- Railroad - Highway Grade Crossing Handbook, Revised 2<sup>nd</sup> Edition, 2007
- Road Weather Information System Environmental Sensor Station Siting Guidelines, Version 2.0, November 2008
- Implementation and Evaluation of RWIS ESS Siting Guide, Final Report, November 2008

IES

- Recommended Practice for Roadway Lighting (RP-8-14), 2014

TRB

- Highway Capacity Manual, 2010

U.S. Access Board

- Dimensional Tolerances in Construction and for Surface Accessibility, 2011
- Accessible Public Rights-of-Way Planning and Design of Alterations, 2007

U.S. Army Corps of Engineers

- Wetlands Delineation Manual, 1987
- Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Alaska Region (Version 2.0), 2007

U.S. Department of Justice

- ADA Standards for Accessible Design, 2010

U.S. Department of Transportation

- ADA Standards for Transportation Facilities, 2006

## **EXHIBIT B-4 WEBSITE ADDRESSES**

(Provided for information only)

As-built Search: [http://dot.alaska.gov/edocs\\_code/searches/asbuiltsearch.cfm](http://dot.alaska.gov/edocs_code/searches/asbuiltsearch.cfm)

Right of Way Search: [http://www.dot.state.ak.us/edocs\\_code/rowmap/rowmaps.cfm](http://www.dot.state.ak.us/edocs_code/rowmap/rowmaps.cfm)

Survey:

[http://www.dot.state.ak.us/creg/dot-cadastral/Construction\\_Surveys/Centerline\\_Referencing\\_and\\_Perpetuation\\_2011.doc](http://www.dot.state.ak.us/creg/dot-cadastral/Construction_Surveys/Centerline_Referencing_and_Perpetuation_2011.doc)

Functional Classification Maps: <http://www.dot.state.ak.us/stwdplng/fclass/fclassmaps.shtml>

Preconstruction Manuals: <http://www.dot.state.ak.us/stwddes/dcspubs/index.shtml>

Materials Resources: [http://www.dot.state.ak.us/stwddes/desmaterials/mat\\_resource.shtml](http://www.dot.state.ak.us/stwddes/desmaterials/mat_resource.shtml)

Policies and Procedures: [http://www.dot.state.ak.us/admsvc/pnp/policy\\_and\\_procedures.shtml](http://www.dot.state.ak.us/admsvc/pnp/policy_and_procedures.shtml)

DOT&PF's Title VI of the Civil Rights Act of 1964 & Environmental Justice:

<http://dot.alaska.gov/cvlrts/titlevi.shtml>

DOT&PF's Limited English Proficiency Website: <http://dot.alaska.gov/cvlrts/lep.shtml>

FTP Site: <http://www.dot.state.ak.us/creg/design/highways/>

Items located on this site include:

- Central Region CAD Standard & Drafting Guide (CSDG)
- CAD Templates and Example sheets (\*.dwt, A1, A2, B1, C1, D1, etc.)
- Regional Drawings
- Master Materials Certification List (MMCL)
- ESCP Template
- Specification Templates and Guides
- Highway Design Checklist
- Design Study Report Templates
- Railroad Crossing Checklist
- Survey Request Form