E. NEW BUSINESS

3. Conditional Use Permit; PC RES 2024-05 Applicant: US Forrest Service Request: Construct a foot bridge along the Ptarmigan Trail within the 50-foot Habitat Protection District of Ptarmigan Creek Parcel ID: 12532105

Multi-Agency Permit Application



514 Funny River Road, Soldotna, AK 99669 • (907) 714-2460 • KenaiRivCenter@kpb.us

Applican	t Informatio	on: (must be a	landowner)	Agent Info	rmation: (if applicable)					
Name:	Forest Se		,	Name:	Hampton Coogle					
Mailing:	161 E 1st	ave		Mailing:	161 E 1st ave					
-	Anchorage	e AK 99501		-	Anchorage AK 99501					
Phone:	74026302	:51		Phone:	7402630251					
Email:	hampton.	coogle@usda.	gov	Email:	hampton.coogle@usda.gov					
Project L	.ocation:			<u>Waterbody</u>	/ Information:					
KPB Parc	cel ID:	12532105		Waterbody	· Ptarmigan Creek					
Physical	Address:	T4N R1E			<i>(looking downstream)</i> 🔳 Left 🔳 Right					
				River Mile:	2 MILES					
Subdivisi	on:									
Lot:	Block:	Additio	on/No.:							
KPB Per	mit Fees: (s	elect one)								
		/Floodplain Pe	rmit	🔳 \$300 - K	(PB Conditional Use/Floodway Permit					
_ \$00 -				- 4000 - N	The Conditional Ose/1 loodway Fermit					
Project I	nformation:	New O	R Extension/	Amendment to	o RC#					
Please se	elect all activ	vities that apply	to your project:							
□ Bank S	stabilization		Fish & Wildlife	Management	Road Construction					
Boat La	aunch		Floating Dock	-	 Structure (Accessory) Structure (Residential) 					
Bridge			Fuel Storage C		cture					
	-		□ In-Stream Stru	ctures (Weir)	Stream Crossing					
Culver ELP St			□ Oil & Gas □ On-Site Utilitie	-	□ Utility Line/Easement					
	nent Stream C	rossing	□ Prior-Existing \$		Veg Mat					
	ation, Dredgin	•	□ Revegetation	Siluciule	Vegetation Removal					
	Installation	g, and/or r m	Root Wads		□ Water Withdrawal□ Other:					
Project D)escription:	Provide a de	tailed description o	f vour proiect	; attach additional pages if necessary.					
		-			onstruct a 80' hiking trail at Ptarmigan					
	•	•	•		be at Ptarmigan Creek and work					
					gan Creek. The other unamed					
		de of the 50'	•		·					

Cost-Share: Is this project funded by the Cost-Share Program?
Yes No

<u>KPB Tax Credit Program</u>: The Borough provides a tax credit as partial reimbursement for new habitat protection and restoration projects within 150 feet of anadromous streams. If you would like to pre-qualify for this credit, please provide your estimated project cost(s) below. Do not include grants or other funding assistance:

Elevated Light Penetrating Structures	\$ na
Habitat Restoration & Protection	\$ na
Green Infrastructure	\$ na
Other Activities	\$ na
1	

Project Questions:

1. Start date: <u>6/1/2024</u> End date: <u>8/30/2025</u> Estimated Days of Construc	tion: <u>90</u>
2. Is any portion of the work already complete? If yes, please describe:	🗋 Yes 🔳 No
Ordinary High Water (OHW) and Mean High Water (MHW):	
3. Is the project located within 50 feet of OHW or MHW a waterbody?	🔳 Yes 🔲 No
4. Does any portion of the project extend <u>below</u> the OHW or MHW of the waterbody?	🗖 Yes 🔳 No
5. Does any portion of the project cantilever or extend over the MHW of the waterbody	? 💽 Yes 🔲 No
6. Will anything be placed below OHW or MHW of the waterbody?	🔲 Yes 🔳 No
Regulatory Floodplains:	
7. Is the property where the project is taking place near or within a regulatory floodplain	n? 🔲 Yes 🔲 No
a. Is this project within or adjacent to a regulatory floodway?	🔳 Yes 🔲 No
b. Is this project within or adjacent to a coastal high hazard zone?	🔲 Yes 🔳 No
c. For new buildings and/or additions, list all project costs (labor, materials, etc.):	\$
Excavation, Dredging, and Fill:	
8. Will material be <u>excavated</u> or <u>dredged</u> from the site?	🔲 Yes 🔳 No
a. Type of material(s):	
b. Area to be dredged <u>below</u> OHW or MHW:	
Length: (ft) Width: (ft) Depth: (ft) Total Cubic Yards:	
c. Area to be excavated <u>above</u> OHW or MHW:	
Length: (ft) Width: (ft) Depth: (ft) Total Cubic Yards:	
d. Location materials will be deposited:	
9. Will any material (including soils, debris, and/or overburden) be used as fill?	💽 Yes 🔲 No
a. Type of material(s): <u>clean structural fill and pit run for bridge abutments</u> . Above MHW	
b. Is this fill permanent or temporary?	Perm Temp
c. Area to be filled <u>above</u> OHW or MHW:	
Length: <u>75</u> (ft), Width: <u>5</u> (ft), Depth: <u>6-8</u> (ft), Total Cubic Yards: <u>3</u>	00
d. Area to be filled <u>below</u> OHW or MHW:	
Length: (ft), Width: (ft), Depth: (ft), Total Cubic Yards:	
Motorized Equipment:	
10. Will you be using motorized equipment for this project? If yes, please list all equipment atv, mini excavator, trail boss (stand up back-hoe) ~18 crossings expected	ent: 💽 Yes 🔲 No
a. Will you be crossing a stream or waterbody?	🖬 Yes 🔲 No
b. How long will equipment be used below OHW or MHW? <u>only crossings are require</u>	ed

Signature & Certification:

This application is hereby made requesting permit(s) to authorize the work described in this application form. I certify the information in this application is complete and accurate to the best of my knowledge and that my site plans or drawings are attached. If applying for a tax credit, I certify that I have not begun construction of the project and that the project will be constructed to the standards in KPB 5.12 Real Property and Personal Property Taxes, KPB 5.14 Habitat Protection Tax Credit, and other applicable federal, state, and local regulations.

 Applicant Signature (required)
 Date

 Agent Signature (if applicable)
 Date

PTARMIGAN CREEK DESCRIPTION

A. Introduction

The Chugach National Forest is seeking construction services for the supply and installation of a pre-engineered steel trail bridges spanning approximately 80 feet x 5 feet, and for the construction of approximately 2.8 miles of new trail. Within the flood zone ~ 300 cy of material will be brought in and will be a combination of AKDOT D-1 and 3" minus pit run. All materials and abutments are above the 100 year flow horizon. The abutments to stream banks will be armored with Class I FP-14 rip rap, the armoring will be ~15 cy per abutment (footprint ~200 sq ft/abutment). The approaches and abutments will raise the existing ground ~ 10' for 50' length on either side of this trail bridge. ~ 8-10 trees will require to be cut around the proposed bridge abutments. As well as light clearing and grubbing immediately around the bridge abutments. The trees and vegetated debris will be used along the cut slopes and toes of fill to act as a slash filter to trap sediment and prevent excess sediment from flowing into Ptarmigan Creek. The trail bridge and trail bridge approaches within 50 feet of the O.H.W. mark is only expected to last 14 days. Once the trail bridge is completed contractors will use the bridge to cross with their equipment.

It is requested that a total of 18 stream crossings will be required during construction using a combination of ATVs, mini excavators, track barrows, mini crawler track skidders. Crossings will follow AKDFG fish window. Any exceptions outside of the windows will be routed to AKDFG for approval prior to crossing. Crossings will be needed during construction, construction is excepted for 2024 and 2025.

The new trail will go along the flood zone area around Ptarmigan creek. The new trail that will be passing through Ptarmigan creek flood zone is less than 0.25 miles. The trail will be \sim 36" wide and be constructed from native material and partial AKDOT D-1 aggregate. The trail will keep the landscape as hydrologically inert as possible by using dips, ditches, and out sloped sections. In 2020-2021 the trail corridor was cleared of large trees and woody debris. The contractor will only have to clear light brush and construct new trail tread. The vegetation that is generated will be used along the cut and fill slopes and act as a slash filter for sediment.

The materials being brought in will be certified weed free and equipment will be inspected for cleanliness.

B. <u>Description of the Work</u>

1. This project involves engineering design, fabrication, delivery, and construction of a steel trail bridges. One of the bridges is planned to span Ptarmigan Creek.

The bridge will be a prefabricated weathering steel trusses. Estimated lengths are 80 feet x 5 feet for Ptarmigan Creek. The travel-way clear width for both bridges is to be 5 feet.

Work includes superstructure and substructure designs. Once overburden has been removed, anticipated subsurface material is sedimentary and foliated rock with allowable foundation bearing pressure of 4,000 psf. The Contractor is responsible for substructure designs and connection of the superstructures to the substructures. Spread-footing mudsills, if used, shall be reinforced concrete. Design considerations include the bridges' remote locations, (e.g., no road access).



U.S. DEPARTMENT OF AGRICULTURE FOREST SERVICE ALASKA REGION

INHT: WATERFALL TO PTARMIGAN BRIDGES AND TRAIL

CHUGACH NATIONAL FOREST SEWARD RANGER DISTRICT KENAI PENINSULA



FOREST LOCATION



TRAVEL DIRECTIONS

FROM ANCHORAGE GO SOUTH ON AK 1 FOR 89 MILES, KEEP LEFT AT THE COOPER LANDING JUNCTION AND CONTINUE FOR 14 MILES, PTARMIGAN LAKE CAMPGROUND AND PTARMIGAN CREEK TRAIL WILL BE ON THE LEFT

PROJECT DESCRIPTION

PROJECT INCLUDES TRAIL BRIDGES AT DRAINAGES NAMED "WATERFALL" AND PTARMIGAN CREEK AS WELL AS CONSTRUCTION OF THEIR APPROACH TRAILS AND A NEW TRAIL BETWEEN THEM

Sheet Number	Sheet Title
1	Waterfall to Ptarmigan Title
2	Waterfall to Ptarmigan Notes
3	Waterfall to Ptarmigan Map
4	Ptarmigan Survey
5	Waterfall Survey
6	Ptarmigan Plan
7	Ptarmigan Profile
8	Waterfall Plan
9	Waterfall Profile
10	Prefab Planning & Criteria
11	Prefab Notes & Sections
12	Prefab Bearing and Substructure
13	Waterfall S Abut Conc LvI on Bedro
14	Waterfall N Abut Geocell Pad
15	TRAIL WORKLOG
16	910-01 TRAIL TYPICAL
17	911-01 TRAIL SECTIONS
18	912-01 CLEARING
19	912-02 BRUSHING
20	914-01 CLIMBING TURN
21	917-20-01 FORD
22	917-20-02 FORD
23	927-10-01 DRAIN DIP
24	927-10-02 DRAIN DIP
25	934-10-01 PUNCHEON
26	934-10-02 PUNCHEON
27	APPENDIX A
28	932-10 TURNPIKE
29	925-01 DITCHES
30	912-20 TRAIL CULVERT
31	918-10-01 ROCK TRAIL
20	
32	913-01 SURFACING 911-03 RETAINER

DISTRICT RANGER SEWARD RANGER DISTRICT	DATE
FOREST ENGINEER CHUGACH NATIONAL FOREST	DATE
APPROVED:	
FOREST SUPERVISOR CHUGACH NATIONAL FOREST	DATE

GENERAL NOTES

<u>SPECIFICATIONS</u>: THE WORK SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATION FOR CONSTRUCTION OF ROADS AND BRIDGES ON FEDERAL HIGHWAY PROJECTS (FP-03) AND STANDARD SPECIFICATIONS FOR CONSTRUCTION OF TRAILS AND TRAIL BRIDGES ON FEDERAL PROJECTS, AND CURRENT VERSION OF THE AASHTO LRFD GUIDE SPECIFICATION FOR THE DESIGN OF PEDESTRIAN BRIDGES.

<u>GEOTECHNICAL REPORT :</u> A GEOTECHNICAL REPORT WILL BE PROVIDED BY THE CO BY EARLY SUMMER 2024.

<u>CONCRETE WASTE :</u> CONCRETE WASTE SHALL BE REMOVED AND DISPOSED OF AS APPROVED BY THE CO. CONCRETE SHALL NOT BE DISCHARGED INTO ANY STREAM OR BODY OF WATER.

TOPSOIL : ALL ORGANIC TOPSOIL MATERIAL SHALL BE STRIPPED AND REMOVED FROM THE GROUND SURFACE PRIOR TO CONSTRUCTING TRAIL OR BRIDGE FEATURES. FINISHED SLOPES ADJACENT TO THE BRIDGE SHALL RECEIVE 2-3" OF TOPSOIL TO THE EXTENT ALLOWED BY EVEN DISTRIBUTION OF THE STOCKPILE MATERIAL FROM STRIPPING THE SITE.

<u>REINFORCING STEEL</u>: REINFORCING STEEL SHALL CONFORM TO AASHTO M 31, 60 ksi (ASTM A615, GRADE 60). CLEARANCE TO REINFORCING IS 2" MINIMUM UNLESS NOTED OTHERWISE.

CONCRETE : CAST-IN-PLACE CONCRETE SHALL BE CLASS A(AE) AND SHALL HAVE A 28 DAY COMPRESSIVE STRENGTH OF 4500 PSI UNLESS NOTED OTHERWISE. CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS FOR APPROVAL AT LEAST 7 DAYS BEFORE USE FOR APPROVAL BY CO. ALL EXPOSED EDGES SHALL HAVE A 3/4" CHAMFER, UNLESS NOTED OTHERWISE. EXPOSED SURFACES SHALL BE GIVEN A RUBBED FINISH, UNLESS NOTED OTHERWISE. CONCRETE SHALL BE GIVEN A RUBBED FINISH, UNLESS NOTED OTHERWISE. CONCRETE SHALL BE AIR ENTRAINED OF 7% +/- 1%. TESTING SHALL BE CONDUCTED IN THE FILE DURING INITIAL BATCHING ACTIVITIES TO DETERMINE THE CORRECT AMOUNT OF ADMIXTURE GIVEN THE CONCRETE MIX AND ON SITE WATER USED. ANY CHANGES IN CONCRETE MIX OR WATER SOURCE SHALL REQUIRE ADDITIONAL FIELD TESTING TO DETERMINE THE CORRECT AMOUNT OF ADMIXTURE.

<u>ABUTMENT:</u> THE CONTRACTOR SHALL PROVIDE A ABUTMENT DESIGN IN ACCORDANCE WITH THE DESIGN CRITERIA AND THE PROVIDED GEOTECHNICAL REPORT

<u>SITE SECURITY:</u> THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION SITE SECURITY DURING THE PERFORMANCE OF THE CONTRACT

BRIDGE DESIGN REQUIREMENTS

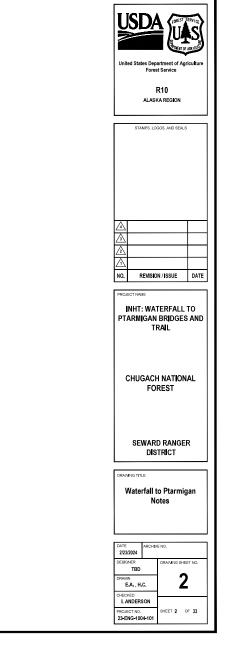
BRIDGE DESIGN :

STRUCTURE SHALL BE DESIGNED IN ACCORDANCE WITH AASHTO LRFD GUIDE SPECIFICATIONS FOR DESIGN OF PEDESTRIAN BRIDGES, INCLUDES 2015 INTERIM REVISIONS. THE PEDESTRIAN TRAIL STRUCTURE SHALL BE DESIGNED FOR A LIVE LOAD VEHICLE CONSISTING OF A 3500 POUND TWO AXLE RUBBER TIRED ATV TRAILERING A SINGLE AXLE ONE HALF CUBIC YARD UTILITY CART WEIGHING 1200 POUNDS. THE ATV AXLES ARE 6 FEET APART AND THE TRAILER AXLE IS 2.5 FEET BEHIND THE ATV REAR AXLE. WHEEL GAGE IS 50 INCHES.

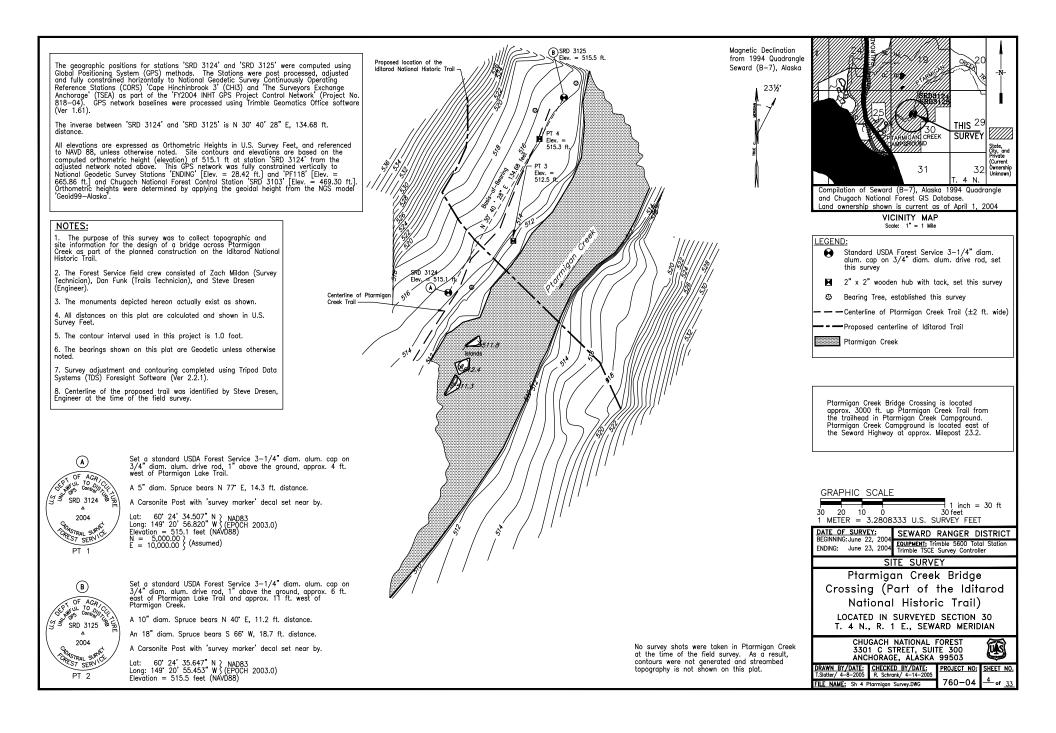
PEDESTRIAN LOADING: 90 PSF WIND LOADING: 3 SECOND-GUST WIND SPEED V=145 MPH WIND EXPOSURE CATEGORY C SNOW LOADING: 88 PSF DEFLECTION SHALL NOT EXCEED L/360

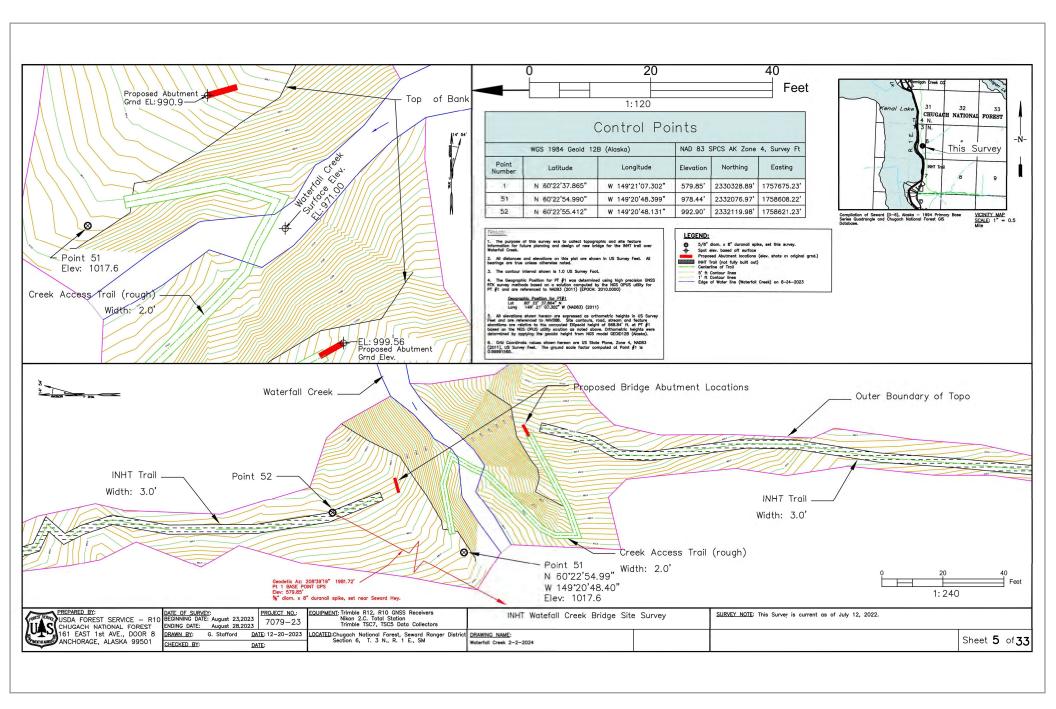
AGGREGATE

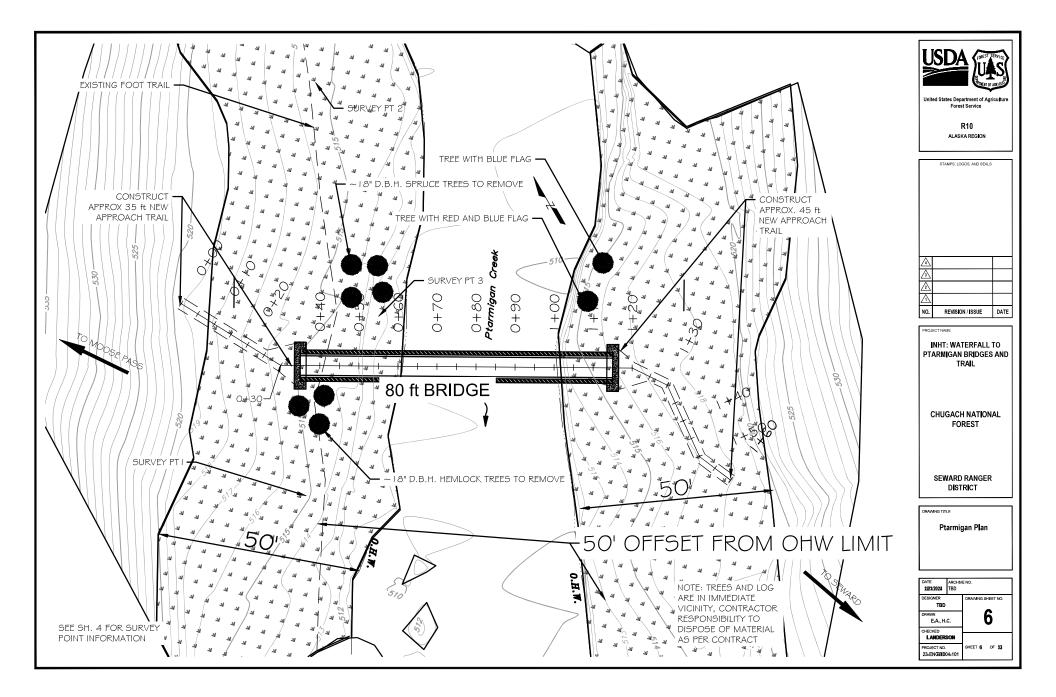
GOVERNMENT SOURCE AGGREGATE WILL BE PROVIDE CONSULT WITH C.O. TO DETERMINE PIT LOCATION. PIT LOCATIONS WILL BE LOCATED WITHIN THE SEWARD OR GLACIER RANGER DISTRICT. ASSUMED LINEAR DISTANCE ~10-40 MILES FROM PROJECT LOCATION.

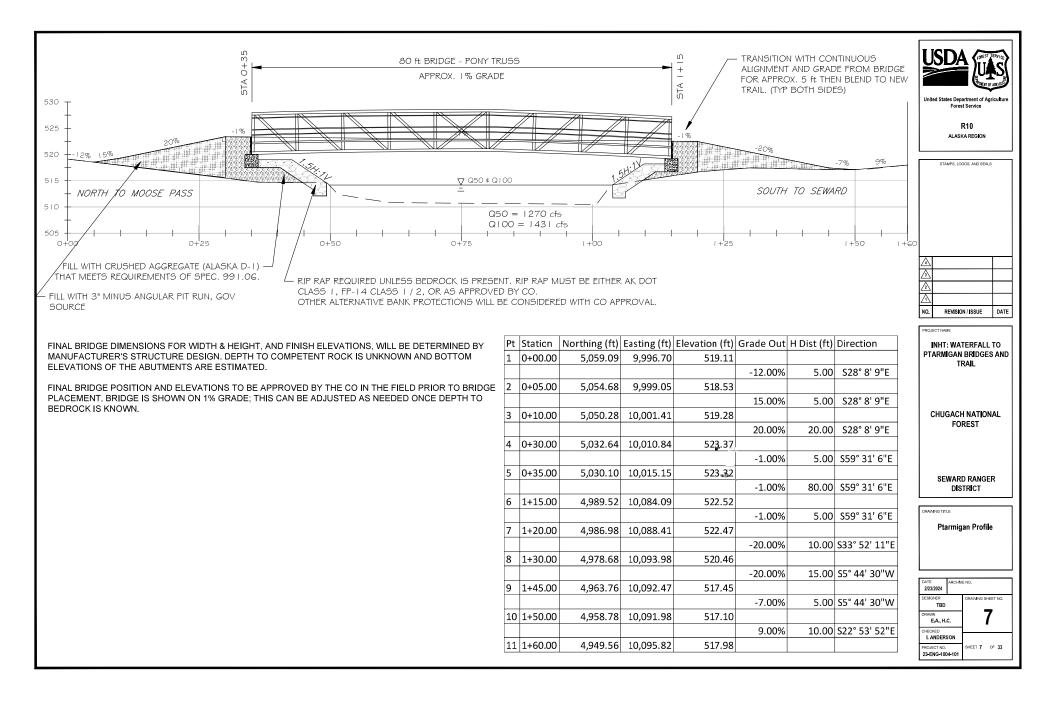


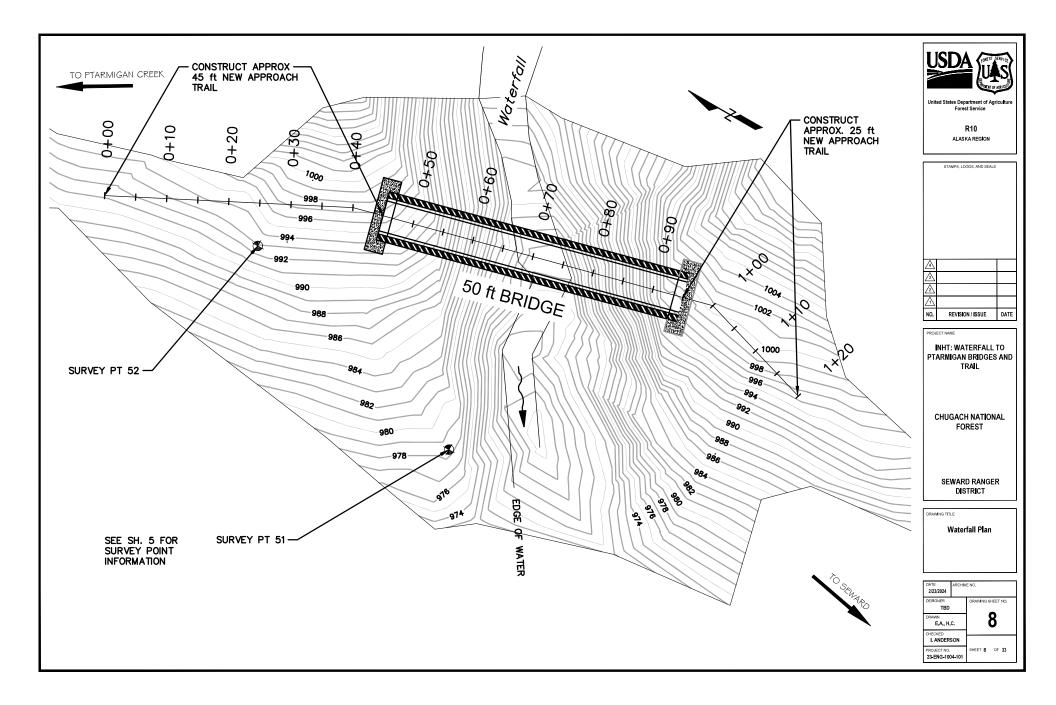


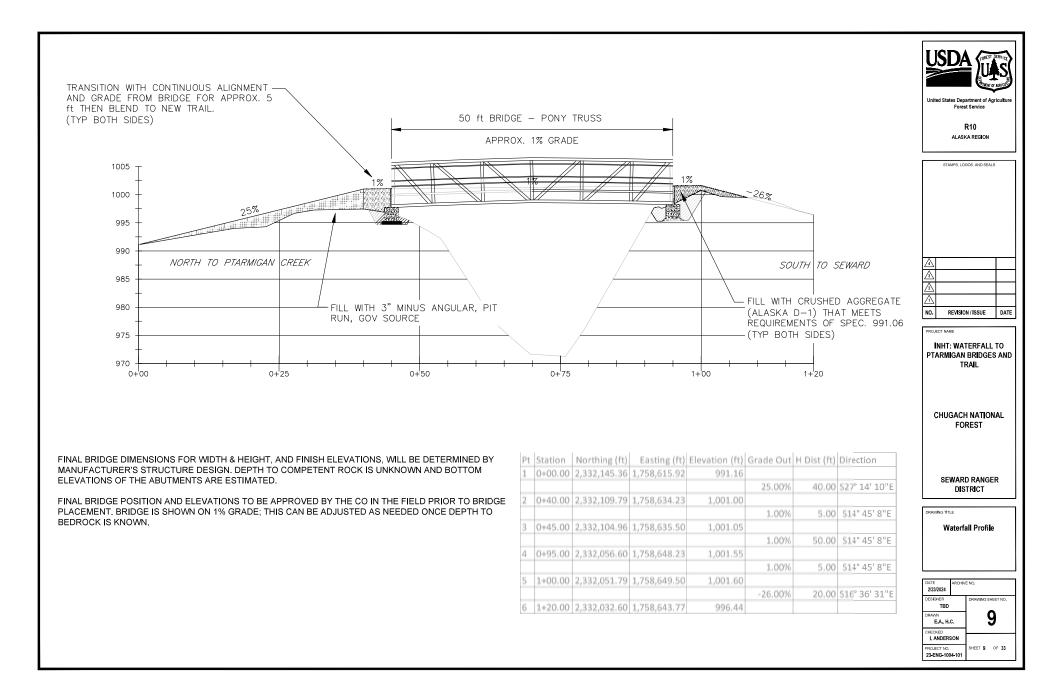










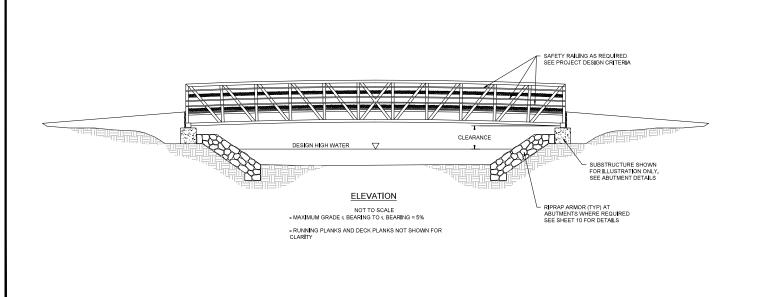


								HANDRAIL				END	POST	DECK			
STRUCTURE NUMBER	TRAIL NO.	BRIDGE LOCATION (MP EST)	BRIDGE LENGTH c-c BRNG	BRIDGE SPAN OUT-TO-OUT	BRIDGE CLEAR WIDTH	PEDESTRIAN LOAD	GROUND SNOW LOAD	ADA REQUIRED	HEIGHT	RUB RAIL SPECIES	RUB RAIL SIZE	TREATMENT	VERTICAL	DIAGONAL	SPECIES	SIZE	TREATMENT (Y/N)
100430	365	6.1206	70 ft	70 ft	5 ft	90 psf	88 psf	NA	42 in	AYC	2x6	NO	ST	ST	DF	3x12	YES
100430	365	4,2233	50 ft	50 ft	5 ft	90 psf	88 psf	NA	42 in	AYC	2x6	NO	ST	ST	DF	3x12	YES

		RUN	NING PLANK			ABUTMENT	r		BACKWALL											
STRUCTURE NUMBER	SPECIES	SIZE	WIDTH	TREATMENT (Y/N)	ТҮРЕ	SIZE	TREATMENT (Y/N)	ТҮРЕ	SPECIES	SIZE	WIDTH	HEIGHT	TREATMENT (Y/N)	LEN	бтн	WIDTH	MATERIAL TYPE	MATERIAL DEPTH	GEO- SYNTHETIC TYPE	COMMENTS
														N	5					
100430	DF/HF	Зx	5 ft	NO	CONC	30" x 30"	NA	TIMBER	DF	3 x12	TBD	TBD	YES	35 ft	45 ft	VARIES	AGGREGATE	VARIES	NA	PTARMIGAN CREEK
100430	DF/HF	Зх	5 ft	NO	CONC	30" x 30"	NA	TIMBER	DF	3 x12	TBD	TBD	YES	45 ft	25 ft	VARIES	AGGREGATE	VARIES	NA	WATERFALL
ADUTACALT MATCH				LILAN CONC - C																

PTARMIGAN CREEK AND WATERFALL ADDITIONAL NOTES • RAILING DESIGN TO MEET AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 13 RAILINGS

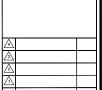
ABUTMENT MATERIAL TYPE: SS = SOLID SAWN, GLU = GULAM, CONC = CONCRETE TIMBER SPECIES: AVC=ALISKA YELLOW CEDAR, ALASKA CEDAR OR PORT ORFORD CEDAR ARE ACCEPTABLE DF=DOUGLAS FIR H=HELM FIR





R10 ALASKA REGION

STAMPS, LOGOS, AND SEALS



REVISION / ISSUE DATE NO.

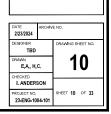
PROJECT NAME INHT: WATERFALL TO PTARMIGAN BRIDGES AND TRAIL

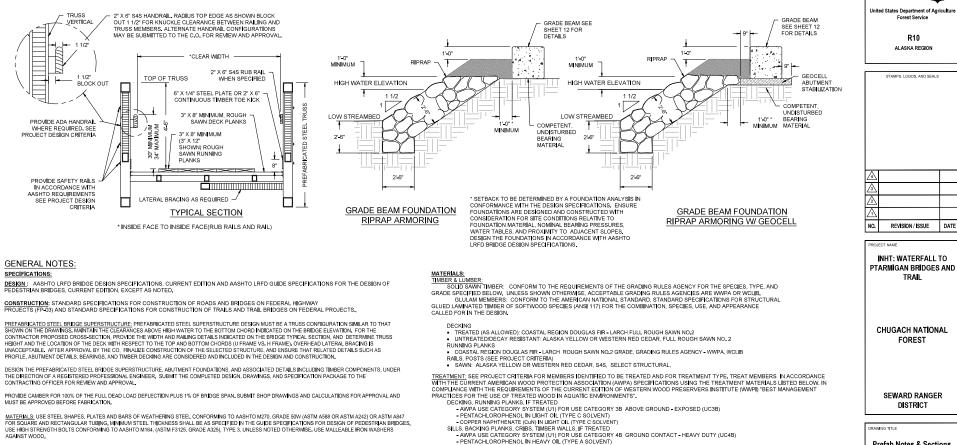
CHUGACH NATIONAL FOREST

> SEWARD RANGER DISTRICT

DRAWING TITLE

Prefab Planning & Criteria





STEEL FARRICATION - FARRICATE THE PREFARRICATED STEEL BRIDGE SUPERSTRUCTURE IN A PLANT MEETING QUALITY REQUIREMENTS AS A CERTIFIED STEEL FABRICATOR BY AISC, WELD STRUCTURAL STEEL IN ACCORDANCE WITH AWS DI 5 AND SUITABLE FOR THE GRADE OF STEEL AND INTENDED USE OR SERVICE.

ERECTION PLAN : SUBMIT AN ERECTION PLAN FOR THE PREFABRICATED STEEL BRIDGE SUPERSTRUCTURE TO THE C.O. FOR APPROVAL 14 DAYS BEFORE ERECTION IS SCHEDULED, IF ALLOYED UNDER THE PROJECT DESIGN CATERAL, TEMPORARY IN-STREAM SUPPORT BENTS MAY BE USED FOR THE ERECTION OF THE PREFABRICATED STEEL TRUSS BRIDGE, CONSTRUCT TEMPORARY IN-STREAM BENTS USING UNTREATED TIMBER CRIBBING, SILLS, CONCRETE BLOCKS OR OTHER SUPPORTS THAT ARE PLACED WITH MINIMAL DISTURBANCE WITHIN THE STREAM, REMOVE ALL MATERIALS USED TO CONSTRUCT THE TEMPORARY IN-STREAM BENTS. SUBMIT DRAWINGS INDICATING TEMPORARY BENT LOCATIONS AND DETAILS, INDICATE THE EQUIPMENT AND METHODS PROPOSED TO INSTALL AND REMOVE THE TEMPORARY BENTS AND ERECT THE NEW PREFABRICATED STEEL TRUSS SUPERSTRUCTURE.

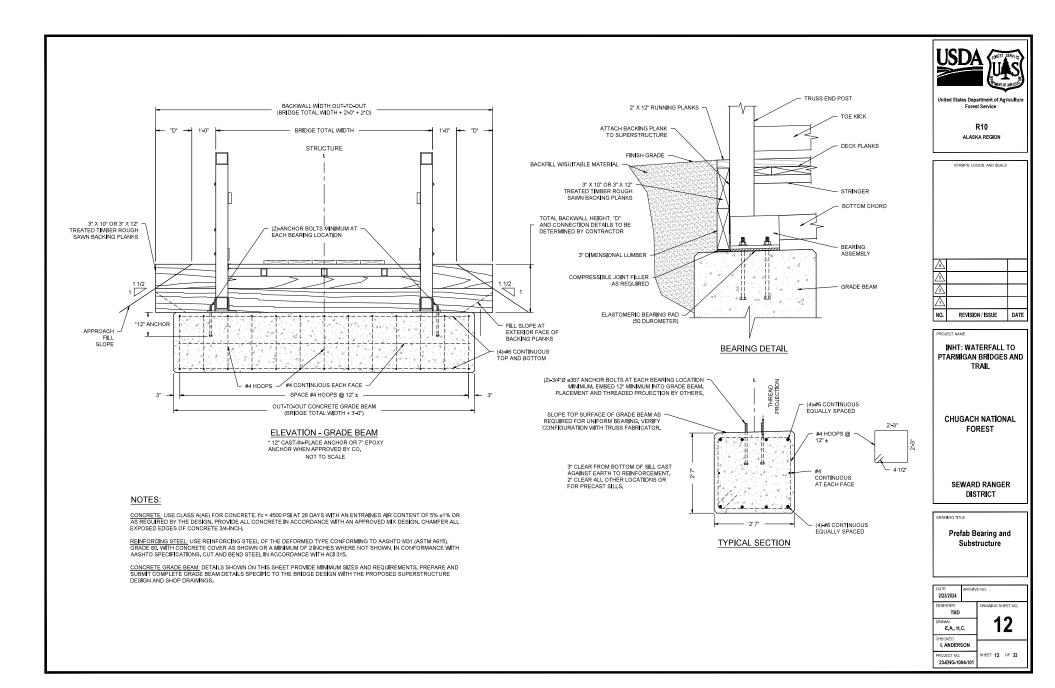
FIELD TREATMENT: FURNISH COPPER NAPHTHENATE (2% SOLUTION) FOR FIELD TREATING OF WOOD, FOR FIELD TREATING ALL ABRASIONS AND FIELD TREATMENT ON UNITS OF THE CONTRACTING OFFICER - CAREFULLY TRIM MEMBERS AND TREAT USING THREE BRUSH COATS OF THE FIELD TREATMENT SOLUTION. WHERE APPROVED FIELD DRILLING OF BOLT OR NAIL HOLES IS REQUIRED OR ALLOWED, FILL THE HOLES WITH PRESERVATIVE PRIOR TO INSERTING THE EASTENERS.

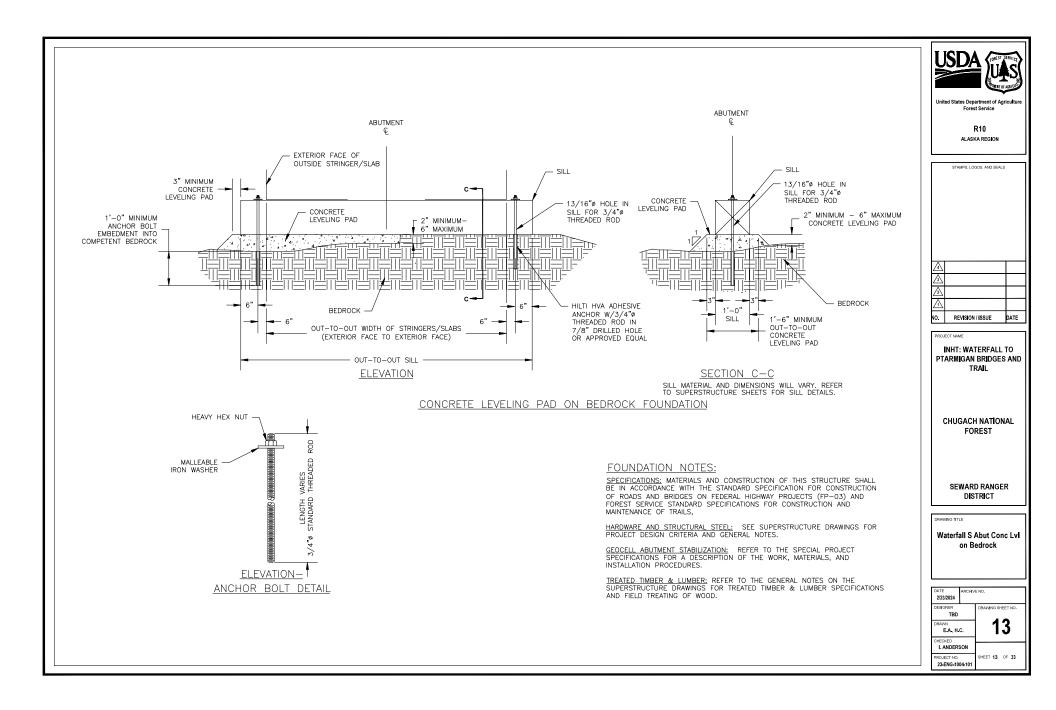
- COPPER NAPHTHENATE (CuN) IN HEAVY OIL (TYPE A SOLVENT)

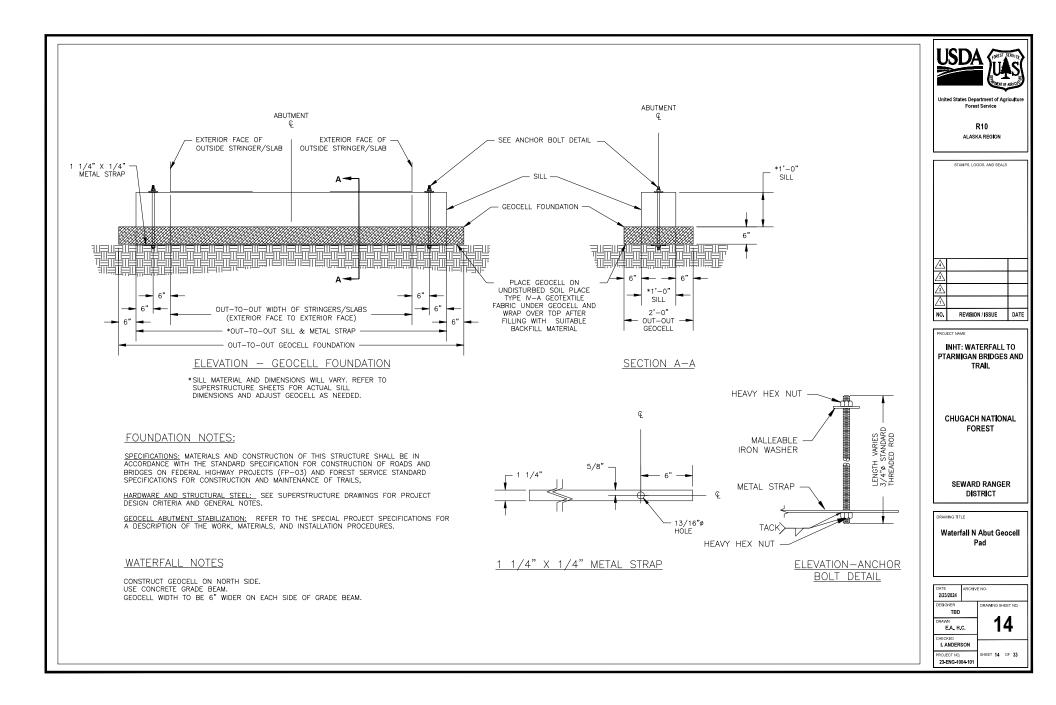
TIMBER FABRICATION: SUBMIT SHOP DRAWINGS FOR ALL TIMBER BRIDGE COMPONENTS (EXCEPT TIMBER RUNNING PLANKS), SHOW ALL DIMENSIONS AND FABRICATION DETAILS FOR ALL CUT OR BORED TIMBER, INDICATE ON SHOP DRAWINGS WHERE FIELD DRILLING OF HOLES IS REQUIRED OR RECOMMENDED.



Prefab Notes & Sections







WORKLOG AND FIELD STAKING IS FOR REFERENCE ONLY ALL TRAIL WORK EXCLUDING PUNCHEON IS INCIDENTAL TO NEW TRAIL CONSTRUCTION PAY ITEM

BAIL

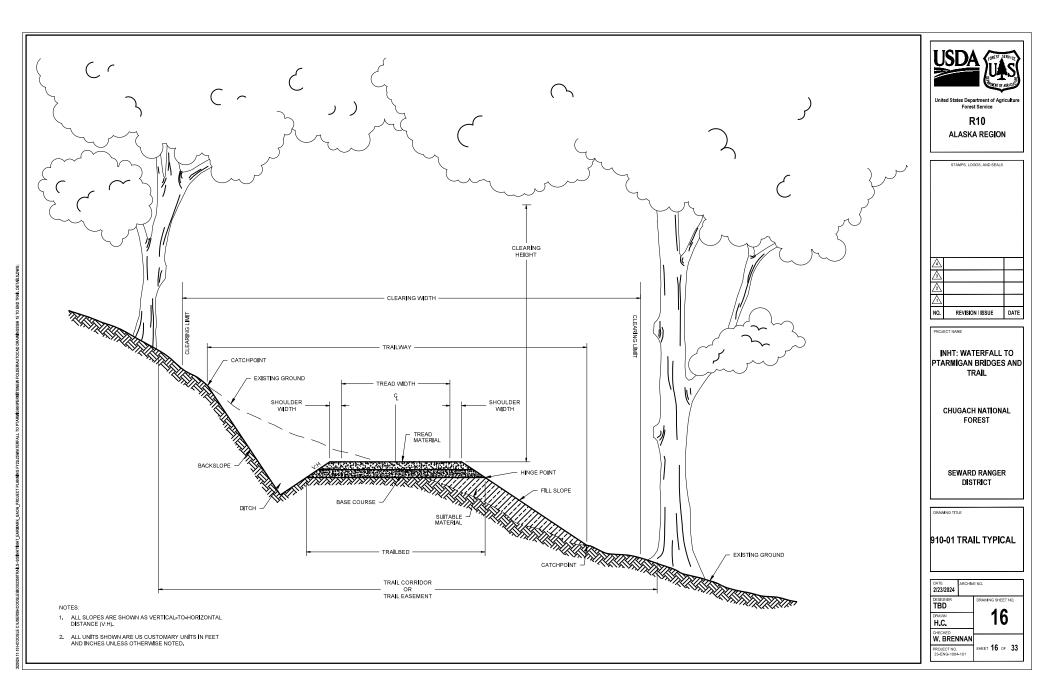
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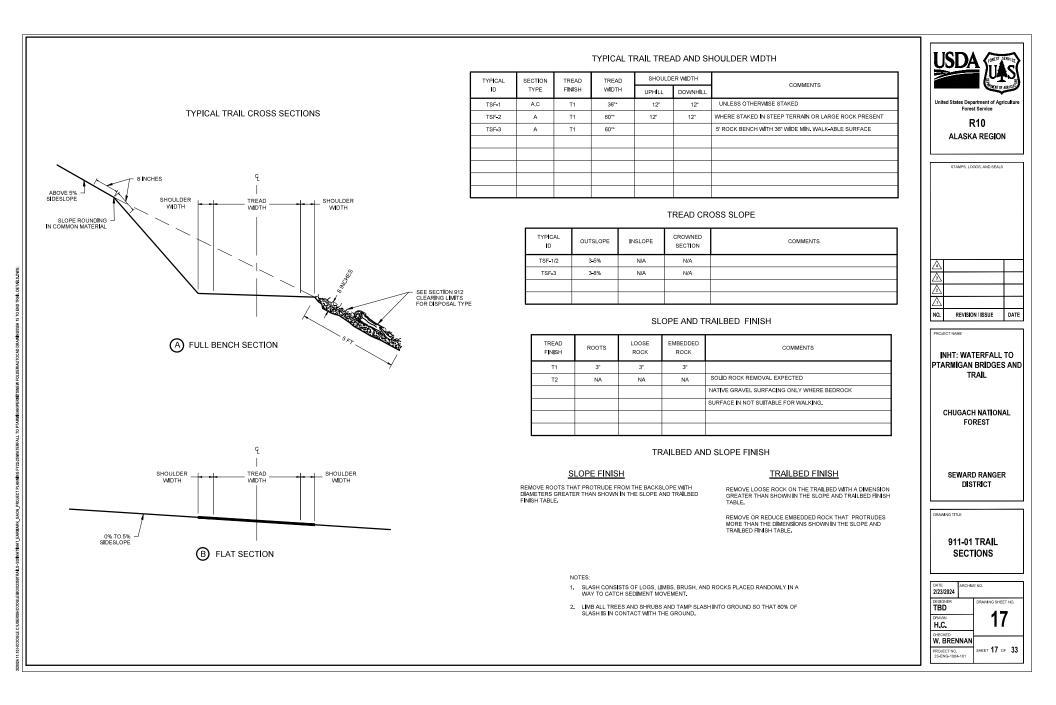
	1				
Station	Description of Work				Comments
	Begin type 2 tread	TSF-2	LF	370	North bridge abutment
3+70	End type 2, start type 1	TSF-1	LF	824	
4+75	Construct Climbing Turn	CTN-1	EA	1	
8+98	Reference Po	int			Waterfall on left
12+14	End 1 tread, start 2 tread	TSF-2	LF	976	
17+95	Construct Ford	RF1-1	EA	1	By 2 Large Spruce
21+65	Solid Rock Removal	TSF-3	LF	80	Rock Waterfall
22+70	End type 2, begin type 1	TSF-1	LF	1,109	
32+21	Reference Po	int			Hemlock Knoll
33+79	End type 1, start type 2	TSF-2	LF	320	
35+38	Construct Ford	RF1-1	EA	1	Large Drainage
35+90	Solid Rock Removal	TSF-3	LF	50	Rock Outcrop
37+49	End type 2, start type 1	TSF-1	LF	2,692	
42+24	Construct Ford	RF1-1	EA	1	Trail to left
50+16	Construct Puncheon 33'	SP1-1	LF	33	
51+74	Construct Ford	RF1-1	EA	1	
64+94	Construct Climbing Turn	CTN-1	EA	1	Steep
64+94	End type 1, start type 2	TSF-2	LF	244	
66+53	Construct Climbing Turn	CTN-1	EA		Steep
67+58	End type 2, begin type 1	TSF-1	LF	106	
68+64	End type 1, begin type 2	TSF-2	LF	317	
69+70	Construct Ford	RF1-1	EA		Large Drainage
71+81	End type 2, begin type 1	TSF-1	LF	264	
74+45	End type 1, begin type 2	TSF-2	LF	317	
76+03	Reference Po			517	Large drainage
76+56	Construct Ford	RF1-1	EA	1	
77+62	End type 2 begin type 1	TSF-1	LF	5,630	
84+48	Construct Puncheon 37'	SP1-1	LF	37	
86+06	Construct Climbing Turn	CTN-1	EA	1	
80+00 99+70	Construct Climbing Turn	CTN-1	EA	1	
99+70 97+68	Construct Ford	RF1-1	EA	1	
		SP1-1	LF	-	
	Construct Puncheon 147' Construct Puncheon 38'	-	LF	147 38	
		SP1-1		38	
	Construct Puncheon 28'	SP1-1	LF		
	Construct Climbing Turn	CTN-1	EA	1	
	Construct Climbing Turn	CTN-1	EA	1	
	Construct Climbing Turn	CTN-1	EA	1	
	Construct Climbing Turn	CTN-1	EA	1	
	Construct Climbing Turn	CTN-1	EA	1	
	Construct Climbing Turn	CTN-1	EA	1	
	Construct Climbing Turn	CTN-1	EA	1	
	End type 1, begin type 2	TSF-2	LF	71	
	End type 2 begin type 1	TSF-1	LF	994	
141+25	Reference Po	-			Reroute trail right off of brush line-trail leave brushed corridor
	Construct Ford	RF1-1	EA	1	
146+45	Construct Puncheon 55'	SP1-1	LF	55	
148+86	Ptarmigan bridge approach				
4 40 . 43	Ptarmigan bridge abutment site	1			

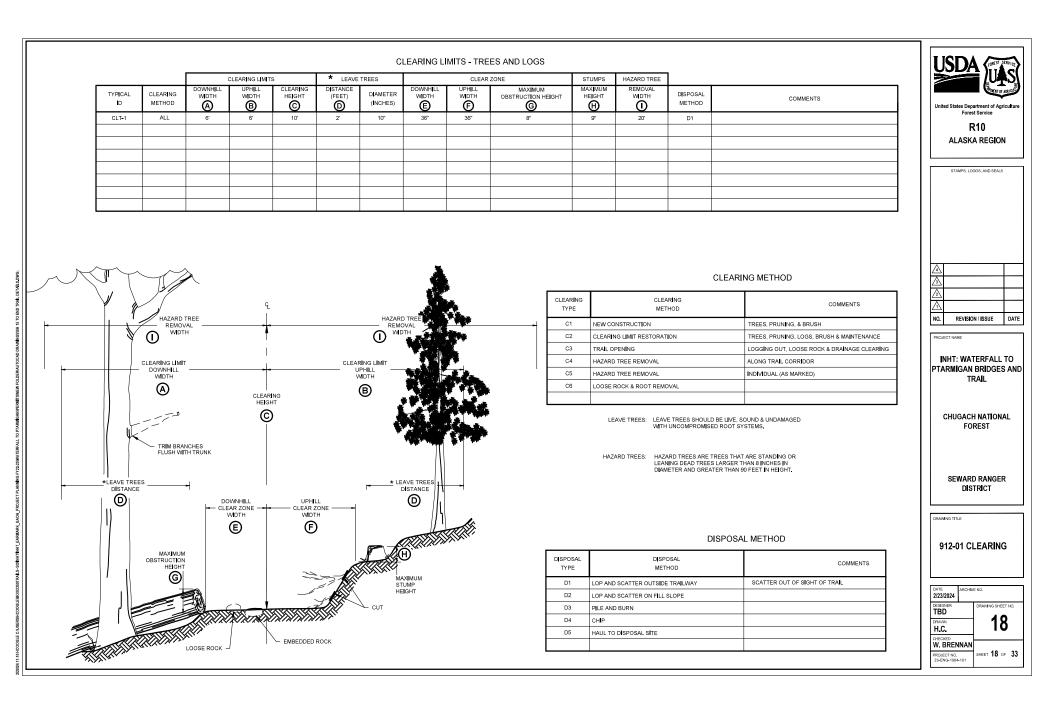
USDA United States Department of Agriculture Forest Service R10 ALASKA REGION STAMPS, LOGOS, AND SEALS $\overline{\mathbb{A}}$ Α NO, REVISION / ISSUE DATE PROJECT NAME NHT: WATERFALL TO PTARMIGAN BRIDGES AND TRAIL CHUGACH NATIONAL FOREST SEWARD RANGER DISTRICT DRAWING TITLE TRAIL WORKLOG DATE ARCHIVE NO. 2/23/2024 DESIGNER RAWING SHEET NO. 15 DRAWN W. BRENNAN

HEET 15 OF 33

PROJECT NO. 23-ENG-1004-101







USDA United States Department of Agriculture

Forest Service

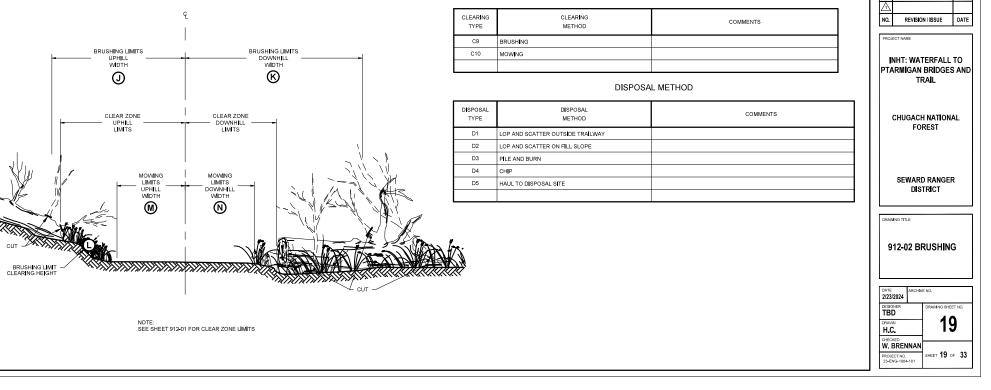
R10 ALASKA REGION

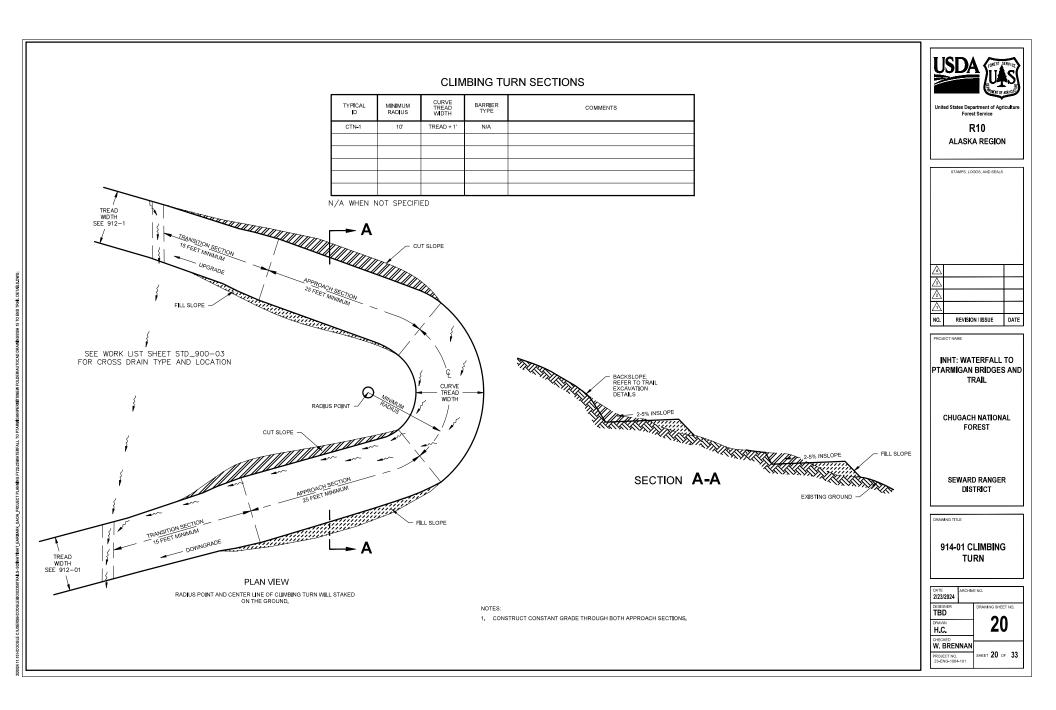
STAMPS, LOGOS, AND SEALS

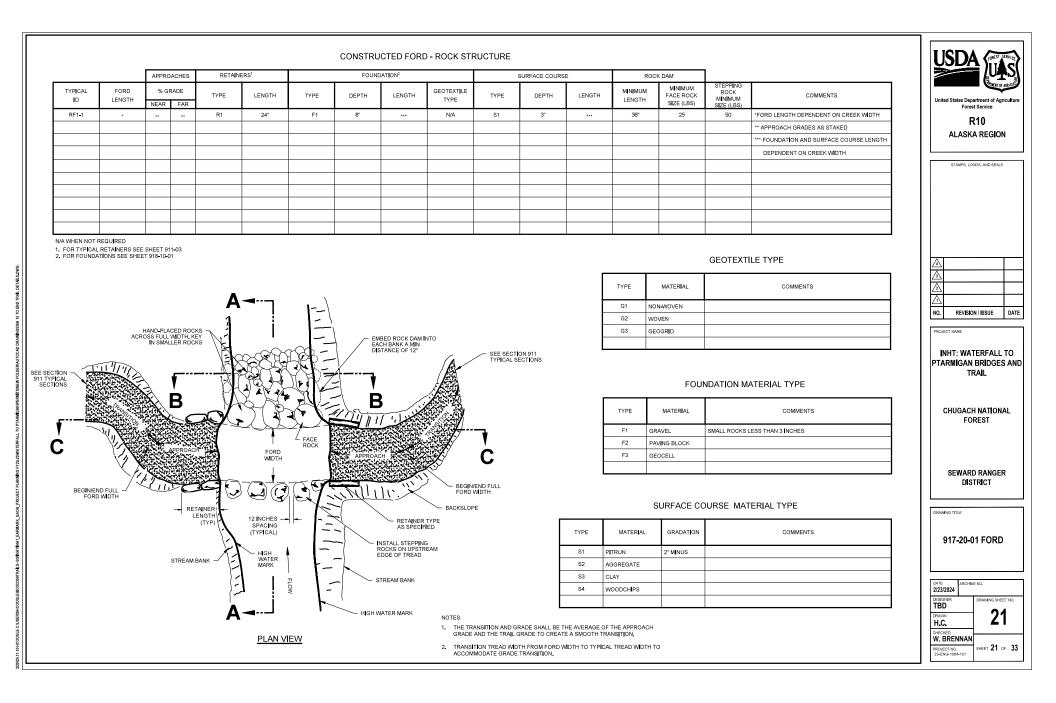
		1	BRUSHING LIMITS	S	MOMIN	G LIMITS		
TYPICAL ID	CLEARING METHOD						DISPOSAL METHOD	COMMENTS
CLB-1	C9	6'	6'	10'	36"	36"	D1	MAINTAIN EXISTING TRAIL
CLB-2	C9	8'	8'	10'	36"	36"	D1	NEW TRAIL CONSTRUCTION

CLEARING LIMITS - BRUSHING

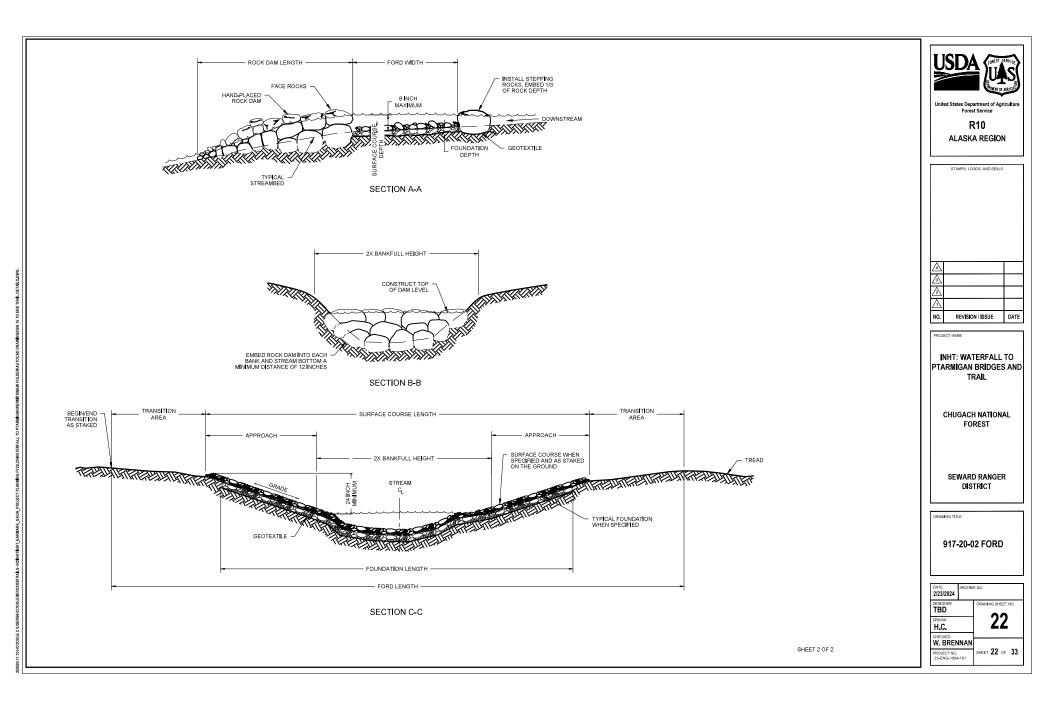
CLEARING METHOD

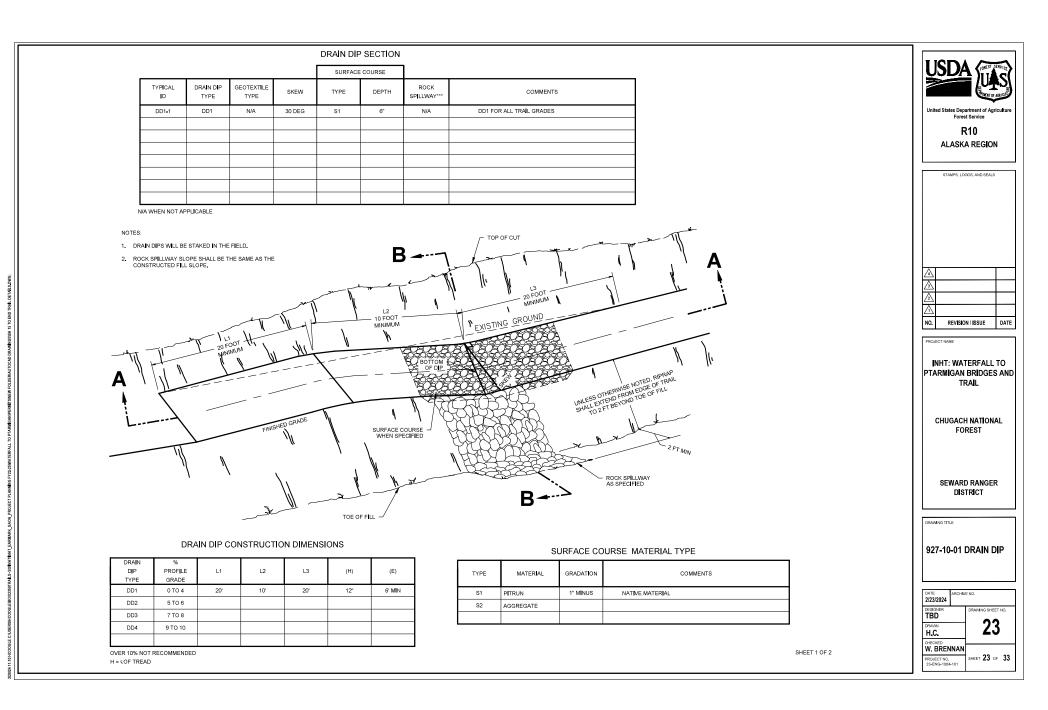




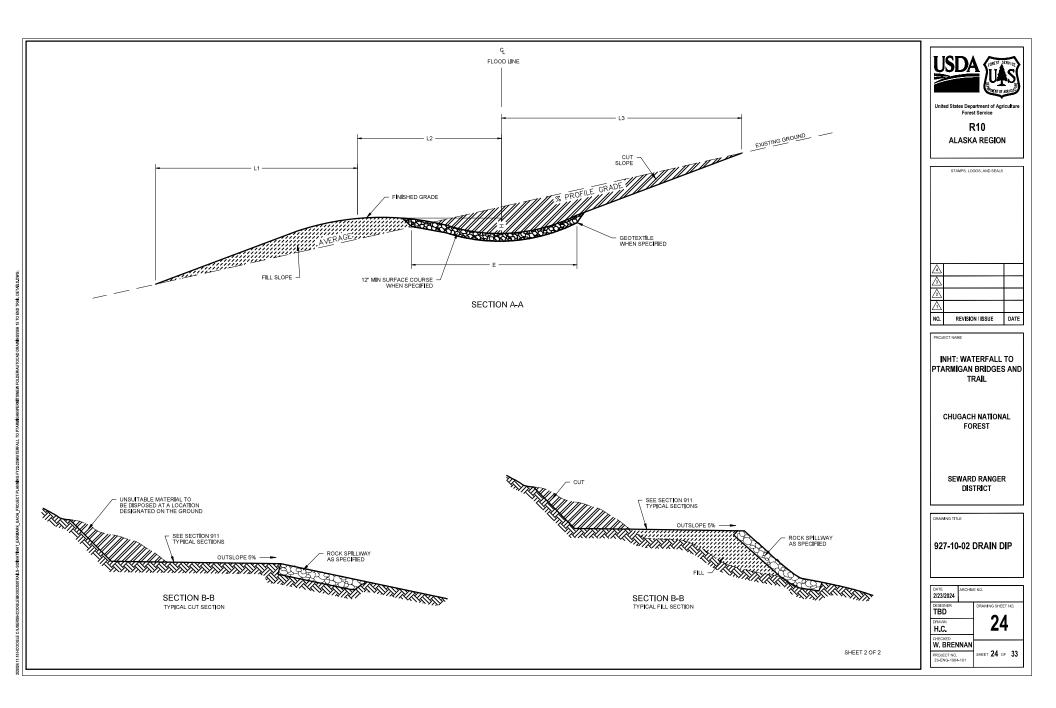


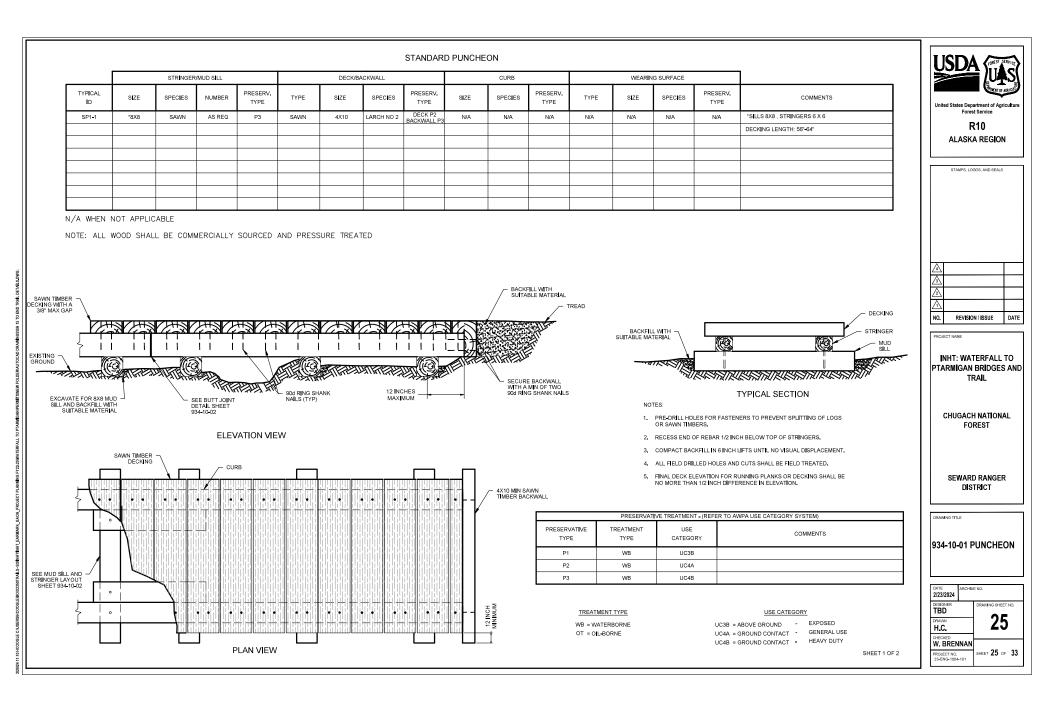
E3-25

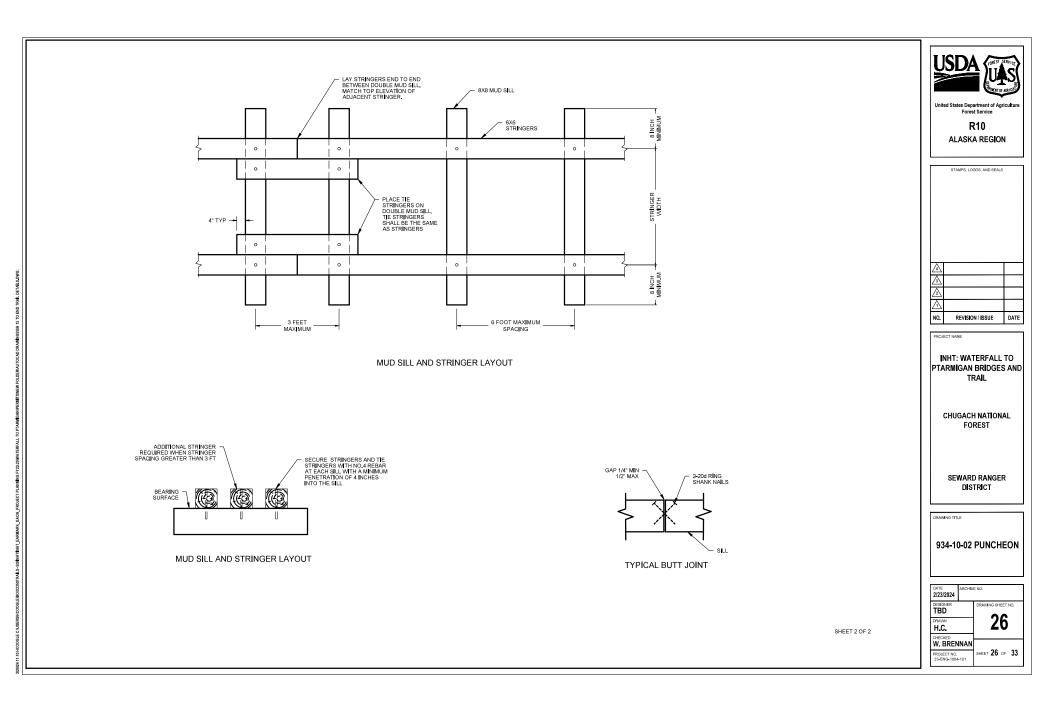




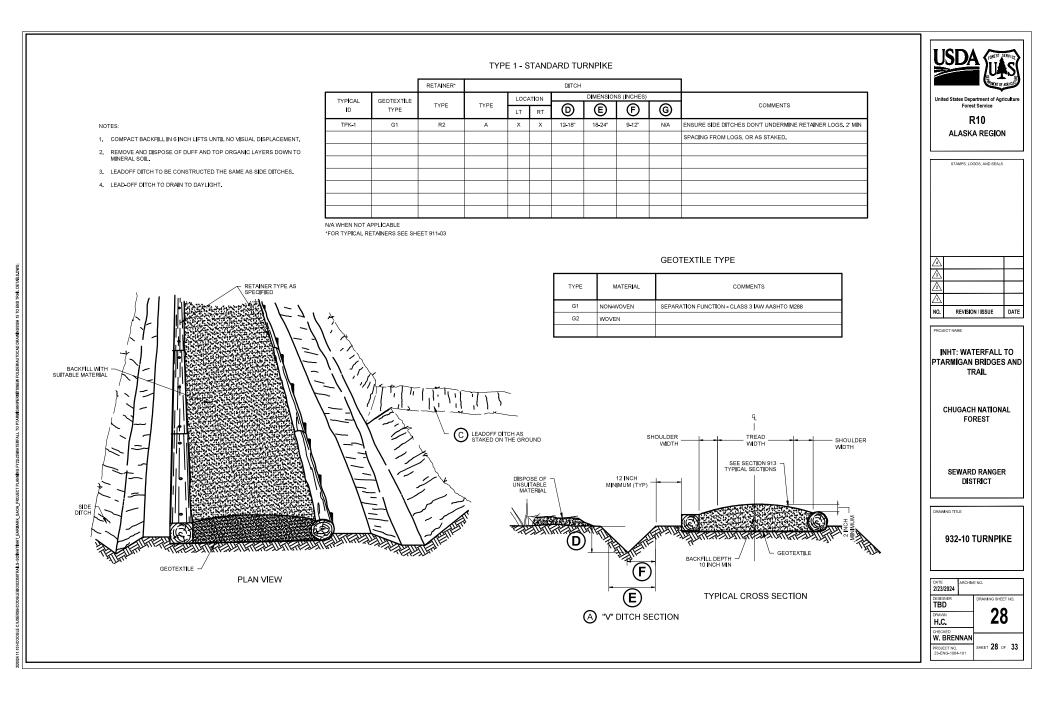
E3-27

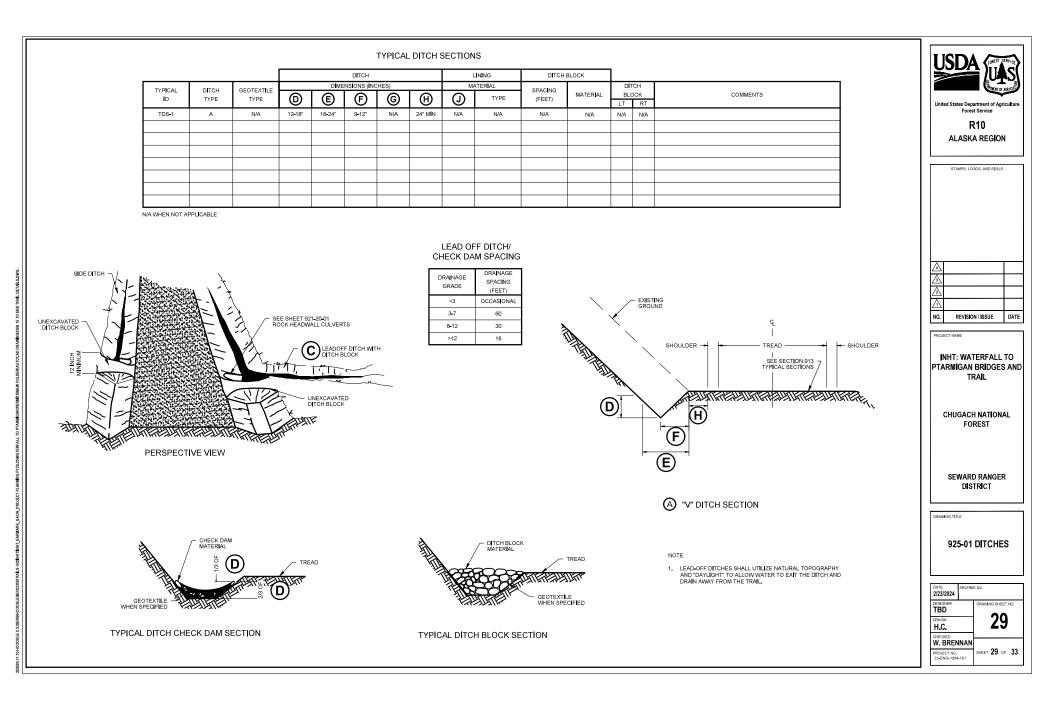




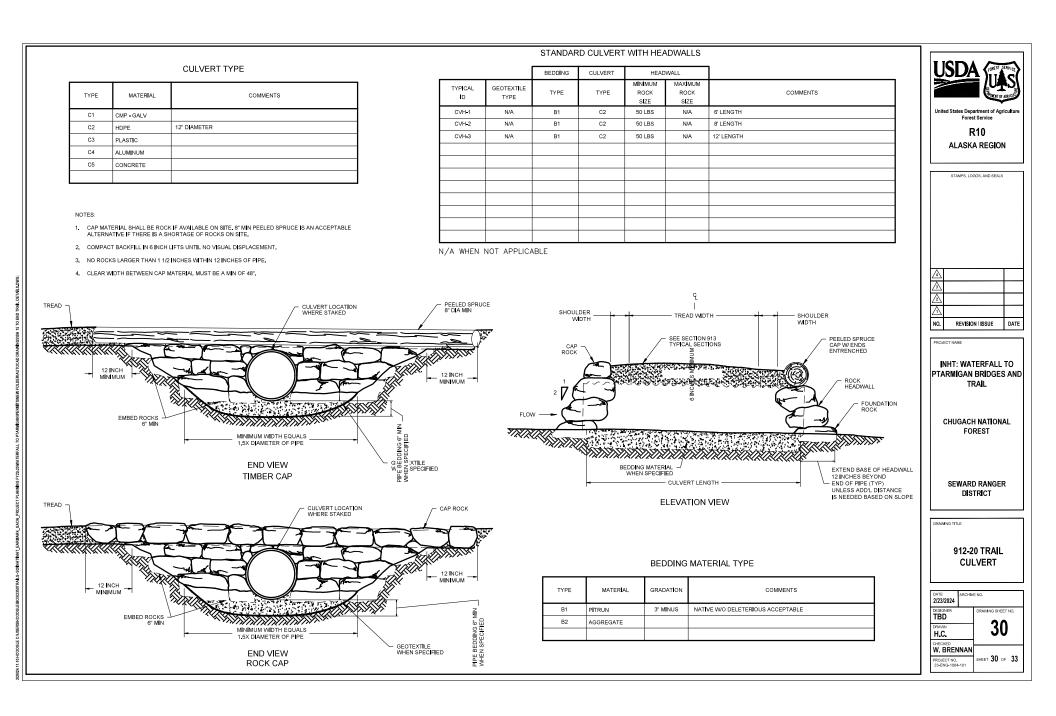


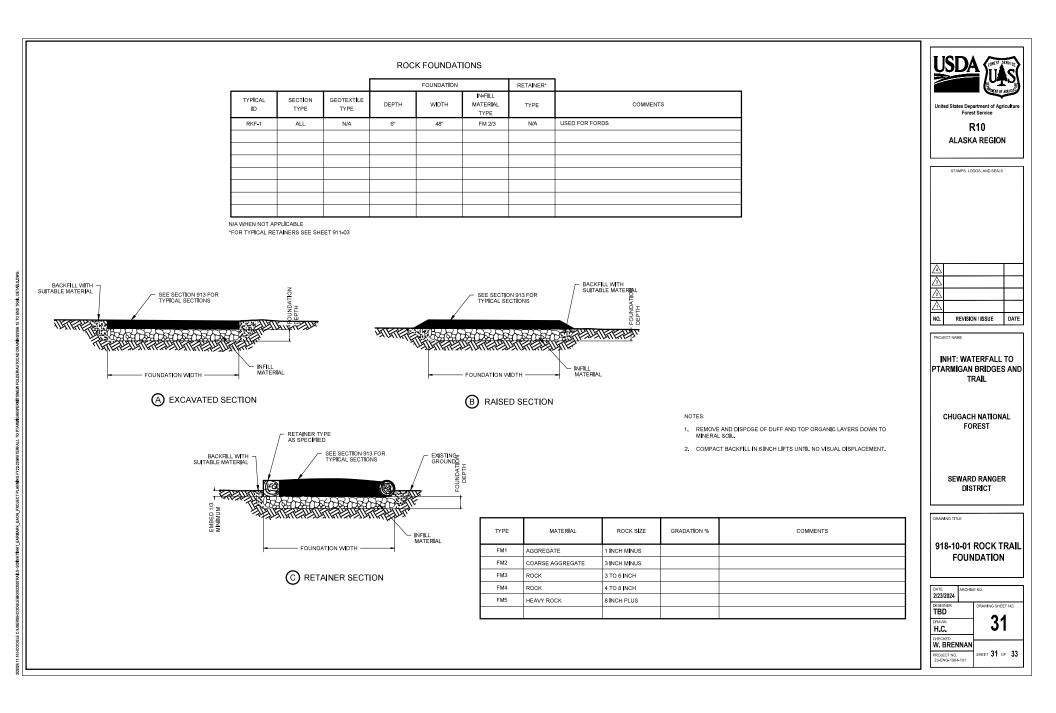
APPENDIX A	United States Department of Agriculture Porest Service R10 ALASKA REGION
SHEETS 27 - 33 ARE NOT WORK ITEMS LISTED IN THE TRAIL WORK LOG OR TRAIL BRIDGE DESIGN	
THESE SHEETS ARE FOR CONTRACTOR REFERENCE ONLY IN THE CASE OF UNEXPECTED SITE CONDITIONS DIFFERING FROM WORK REFERENCED IN THE WORK LOG AND CONTRACT	

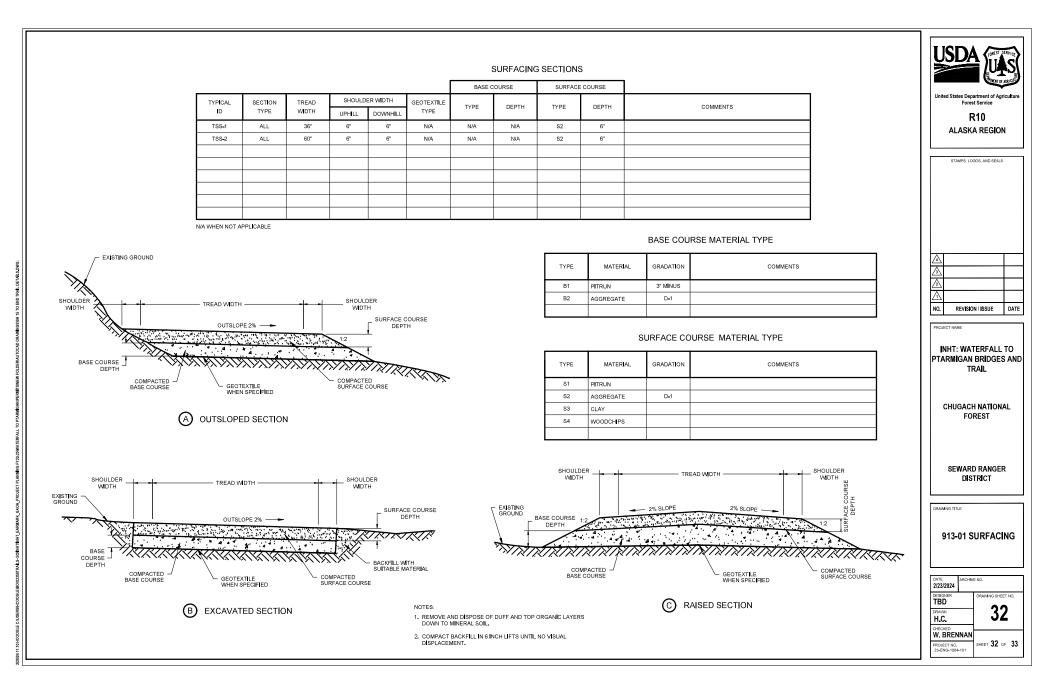


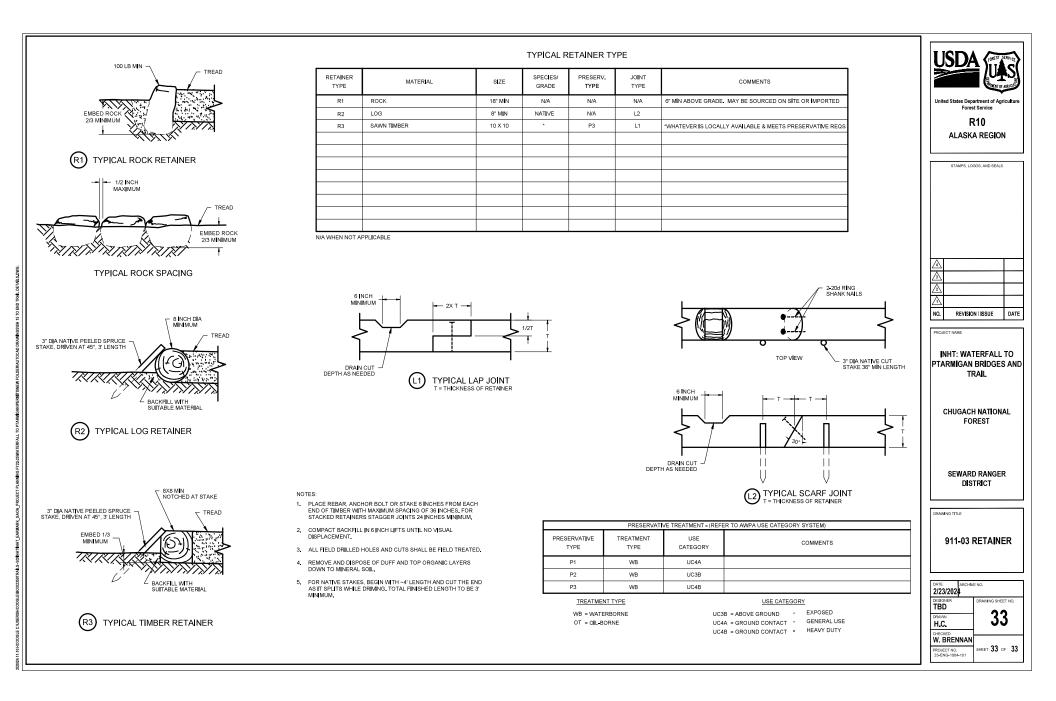


E3-33







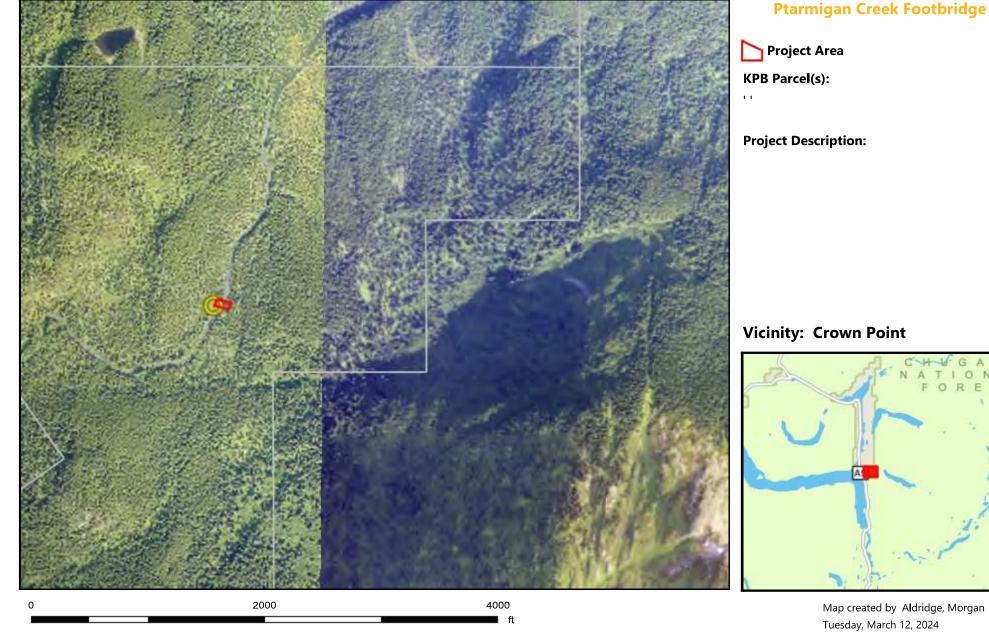


E3-37



KENAI PENINSULA BOROUGH

Project Overview and Vicinity Map



The information depicted hereon is for a graphical representation only of best available sources. The Kenai Peninsula Borough assumes no responsibility for any errors on this map.

E3-38



Tuesday, March 12, 2024 mi The information depicted hereon is for a graphical representation only of best available sources. The Kenai Peninsula Bo

Conditional Use Permit Anadromous Waters Habitat Protection District Staff Report

KPB File No.	2024-05
Planning Commission Meeting:	March 25, 2024
Applicant	USDA Forest Service
Mailing Address	161 W 1 st Ave
	Anchorage AK 5501
Legal Description	T 4N R 1E SEC 30 SEWARD MERIDIAN SW GOVT LOTS 1
	THRU 4 & NE1/4 NE1/4 & W1/2 NE1/4 & E1/2 W1/
KPB Parcel Number	12532105

Project Description

A Conditional Use Permit is sought pursuant to KPB 21.18 for the construction of a foot bridge within the 50-foot Habitat Protection District of the Ptarmigan Creek, as established in KPB 21.18.040.

Background Information

The USDA Forest Service is seeking a permit for installation of a pre-engineered steel trail bridge spanning approximately 80 feet x 5 feet, and for the construction of approximately 2.8 miles of new trail. All abutments to stream banks will be armored with Class I FP-14 rip rap, the armoring will be ~15 cy per abutment (footprint ~200 sq ft/abutment). The approaches and abutments will raise the existing ground ~ 10' for 50' length on either side of this trail bridge. The trees and vegetated debris will be used along the cut slopes and toes of fill to act as a slash filter to trap sediment and prevent excess sediment from flowing into Ptarmigan Creek. The work on the trail bridge and trail bridge approaches within 50 feet of the O.H.W. mark is only expected to last 14 days.

Project Details within the 50-foot Habitat Protection District

- 1. The bridge will be constructed on steel trusses with estimated lengths of 80 feet by 5 feet.
- 2. Removal of vegetation as needed to install allowable foundation fill.
- 3. Approximately 400 square feet of Class I rip rap will be utilized on the abutments of the bridge.

Findings of fact pursuant to KPB 21.18.081 Conditional Use Permit

- 1. Portions of this proposed project are within the 50-foot habitat protection district as defined by KPB 21.18.040.
- 2. Pursuant to KPB 21.18.081(B)(5), construction of critical infrastructure may be approved as a conditional structure/use within the habitat protection district.
- 3. Pursuant to 21.18.081(D) General Standards, staff finds that the proposed project meets the five general standards.
- 4. Pursuant to KPB 21.18.020(A), this chapter was established to protect and preserve the stability of anadromous fish through controlling shoreline alterations and disturbances along anadromous waters and to preserve nearshore habitat.
- 5. Pursuant to KPB 21.18.20(B)(5), one purpose of this chapter was established to separate conflicting land uses.

- 6. The proposed project is consistent with the 2019 Kenai Peninsula Borough Comprehensive Plan and other applicable planning documents and borough code, including the Kenai Peninsula Borough Coastal Management Plan.
- 7. Pursuant to KPB 21.06.081(D)(3), the proposed work will occur on the applicant's property and shall not have an adverse effect on adjoining properties.
- 8. Kenai Peninsula Borough Planning Commission Resolution 2015-35 defines water-dependent as: "...a use or structure located on, in or adjacent to water areas because the use requires access to the waterbody. The definition is applicable to facilities or activities that must be located at or near the shoreline and within the 50-foot buffer. An activity is considered water dependent if it is dependent on the water as part of the intrinsic nature of its operation. Examples of water dependent facilities may include, but are not limited to, piers, boat ramps, and elevated walkways."
- 9. The River Center found the application complete and scheduled a public hearing for March 25, 2024.
- 10. Agency review was distributed on March 6, 2024. No comments or objections have been received from resource agencies to date.
- 11. Notice of this project was sent to the Moose Pass Advisory Planning Commission on March 21, 2024.
- 12. Pursuant to KPB 21.11.030, public notice was mailed to all property owners within a radius of 300 feet of the project on March 6, 2024. A total of 2 mailings were sent.
- 13. Pursuant to KPB 21.11.020, public notice was published in the Peninsula Clarion on March 14, 2024 and March 21, 2024.
- 14. The applicant is currently in compliance with Borough permits and ordinances.

Permit Conditions

- 1. Construction techniques and best management practices shall be utilized to ensure that land disturbing activities do not result in runoff or sedimentation to the Ptarmigan Creek.
- 2. The foot bridge must be designed and installed to meet KPB floodplain requirements.
- 3. The permittee shall minimize damage to all vegetation and shall revegetate all disturbed areas with native vegetation.
- 4. For each tree removed, two seedlings less than 5.5-feet tall of a species native to the region will be planted within the 50-foot HPD.
- 5. Storage or use of fuel is prohibited within 50-feet of any open water.
- 6. The River Center shall be notified at least 3 days prior to the start of the project.
- 7. If changes to the approved project described above are proposed prior to or during its siting, construction, or operation, the permittee is required to notify the River Center to determine if additional approval is required.
- 8. The permittee shall be held responsible for the actions of the contractors, agents, or others who perform work to accomplish the approved plan.
- 9. The construction or installation phase of this Conditional Use Permit must be completed within two calendar years from the date of the permit's issuance, or the Conditional Use Permit shall expire unless the Planning Commission finds that more time is necessary to effectuate the purposes of this chapter, in which case the commission may extend the deadline for a maximum of six years from the date of issuance. Prior to its expiration date and upon written request, the Planning Director may grant a Conditional Use Permit extension for 12 months (KPB 21.18.081 (H)).
- 10. In addition to the penalties provided by KPB 21.18.110, and pursuant to KPB 21.50, the permit may be revoked if the permittee fails to comply with the provisions of this chapter or the terms and conditions of a permit issued under this chapter. The Borough Clerk shall provide at least 15 day's written notice to the permittee of a revocation hearing before the hearing officer (KPB 21.18.082).
- 11. The permittee shall comply with the terms, conditions and requirements of the Kenai Peninsula Borough Code of Ordinances Chapter 21.18, and any regulations adopted pursuant to this chapter.

12. The permittee is responsible for abiding by all other federal, state, and local laws, regulations, and permitting requirements applicable to the project (KPB 21.18.081 (G)).

General Standards

Pursuant to 21.18.081(D) General Standards, the following standards shall be met before conditional use approval may be granted:

- 1. The use or structure will not cause significant erosion, sedimentation, damage within the habitat protection district, an increase in ground or surface water pollution, and damage to riparian wetlands and riparian ecosystems; **Conditions 1-5 and Finding 2 appear to support this standard.**
- 2. Granting of the conditional use shall be consistent with the purposes of this chapter, the borough comprehensive plan, other applicable chapters of the borough Code, and other applicable planning documents adopted by the borough; **Conditions 1-3 and Findings 4-8 appear to support this standard.**
- 3. The development of the use or structure shall not physically damage the adjoining property; **Finding 7 appears to support this standard.**
- 4. The proposed use or structure is water-dependent; Finding 8 appears to support this standard.
- 5. Applicant's or owner's compliance with other borough permits and ordinance requirements. **Conditions 11-12 and Finding 12 appears to support this standard.**

Attachments

Multi-Agency Application Draft Resolution 2024-05 Floodplain Memo

Recommendation

Based on the findings, staff finds that the proposed project meets the five general standards of KPB 21.18.081. The Planning Commission could consider additional permit conditions to mitigate for any habitat loss if it chooses.

Staff recommends the Planning Commission grant a Conditional Use Permit for the proposed project details subject to adopted conditions as set forth in 2024-05.

Note: An appeal of a decision of the Planning Commission may be filed to the Hearing Officer, in accordance with the requirements of the Kenai Peninsula Borough Code of Ordinances, Chapter 21.20.250. An appeal must be filed with the Borough Clerk within 15 days of date of the notice of the decision using the proper forms and be accompanied by the filing and records preparation fee.

END OF STAFF REPORT

Good afternoon,

I have reviewed the project and determined the proposed design will comply with KPB Floodplain requirements. If approved by the Planning Commission, a floodplain permit will be issued.

Julie Hindman

Planner – Floodplain Administrator Donald E. Gilman River Center KPB Planning Department 907-714-2463





Donald E. Gilman River Center

514 Funny River Road, Soldotna, Alaska 99669 • (907) 714-2460 • (907) 260-5992 Fax

A Division of the Planning Department

Peter A. Micciche Borough Mayor

KENAI PENINSULA BOROUGH PLANNING COMMISSION NOTICE OF PUBLIC HEARING

The Kenai Peninsula Borough received an application for a Conditional Use Permit under KPB 21.18.081 for a project within the 50-foot Habitat Protection District (HPD) of the Ptarmigan Creek. This project has been scheduled for a public hearing before the Kenai Peninsula Borough Planning Commision.

Why are you receiving this notice?

Per code, property owners within 300 feet of the proposed project must receive notice of the public hearing. This project is located in Lawing, Alaska, Parcel ID 12532105. Our records indicate that you are a property owner within 300 feet of that parcel.

Project Description:

The Forest Service is requesting a permit to construct a foot bridge along the Ptarmigan Trail within the 50-foot HPD of the Ptarmigan Creek.

How can you look at the application?

The meeting packet will be posted the week prior to the meeting. Once it has been posted it can be viewed at <u>https://kpb.legistar.com/Calendar</u> or by scanning this QR code with your phone:



How do you attend the Planning Commission meeting?

When:	Monday, March 25, 2024 at 7:30 p.m.
Where:	This meeting will be held at the George Navarre Building at 144 N Binkley St in Soldotna,
	in the Betty Glick Assembly Chambers and also electronically via Zoom.
Zoom:	Meeting ID 907 714 2200
	https://us06web.zoom.us/j/9077142200
	1-888-788-0099 or 1-877-853-5247

How do I comment on the project?

You can provide verbal comment at the meeting (see information above). You may also submit written comments. Written comments must be received by 1:00 pm Friday, March 22, 2024.

<u>Mail comments to:</u> Donald E. Gilman River Center 514 Funny River Road Soldotna, Alaska 99669 Email comments to: KenaiRivCenter@kpb.us

For additional information, please contact Morgan Aldridge at maldridge@kpb.us or (907) 714-2465.

KENAI PENINSULA BOROUGH PLANNING COMMISSION

RESOLUTION 2024-05

A RESOLUTION GRANTING A CONDITIONAL USE PERMIT PURSUANT TO KPB 21.18 FOR THE CONSTRUCTION OF A FOOTBRIDGE WITHIN THE 50-FOOT HABITAT PROTECTION DISTRICT OF THE PTARMIGAN CREEK.

- **WHEREAS,** Chapter 21.18 provides for the approval of Conditional Use Permits for certain activities within the habitat protection district; and
- **WHEREAS,** KPB 21.18.081 provides that a conditional use permit is required for construction not meeting the standards of KPB 21.18.071; and
- WHEREAS, KPB 21.18.091 provides for mitigation measures by the planning department staff to address impacts to the Habitat Protection District from a proposed, ongoing, or completed project; and
- **WHEREAS,** public notice was sent to all property owners within a 300-foot radius of the proposed activity as provided in Section 21.11.030; and
- **WHEREAS,** public notice was published in the Peninsula Clarion on March 14, 2024 and March 21, 2024 as provided in Section 21.11.020; and
- **WHEREAS,** public testimony was received at the March 25, 2024 meeting of the Kenai Peninsula Borough Planning Commission;

NOW, THEREFORE, BE IT RESOLVED BY THE PLANNING COMMISSION OF THE KENAI PENINSULA BOROUGH:

That the Planning Commission makes the following findings of fact pursuant to KPB 21.18:

Section 1. Project Details Within the 50-foot Habitat Protection District

- 1. The bridge will be constructed on steel trusses with estimated lengths of 80 feet by 5 feet.
- 2. Removal of vegetation as needed to install allowable foundation fill.
- 3. Approximately 400 square feet of Class I rip rap will be utilized on the abutments of the bridge.

Section 2. Findings of fact pursuant to KPB 21.18.081

- 1. Portions of this proposed project are within the 50-foot habitat protection district as defined by KPB 21.18.040.
- 2. Pursuant to KPB 21.18.081(B)(5), construction of critical infrastructure may be approved as a conditional structure/use within the habitat protection district.
- 3. Pursuant to 21.18.081(D) General Standards, staff finds that the proposed project meets the five general standards.

- 4. Pursuant to KPB 21.18.020(A), this chapter was established to protect and preserve the stability of anadromous fish through controlling shoreline alterations and disturbances along anadromous waters and to preserve nearshore habitat.
- 5. Pursuant to KPB 21.18.20(B)(5), one purpose of this chapter was established to separate conflicting land uses.
- 6. The proposed project is consistent with the 2019 Kenai Peninsula Borough Comprehensive Plan and other applicable planning documents and borough code, including the Kenai Peninsula Borough Coastal Management Plan.
- 7. Pursuant to KPB 21.06.081(D)(3), the proposed work will occur on the applicant's property and shall not have an adverse effect on adjoining properties.
- 8. Kenai Peninsula Borough Planning Commission Resolution 2015-35 defines water-dependent as: "...a use or structure located on, in or adjacent to water areas because the use requires access to the waterbody. The definition is applicable to facilities or activities that must be located at or near the shoreline and within the 50-foot buffer. An activity is considered water dependent if it is dependent on the water as part of the intrinsic nature of its operation. Examples of water dependent facilities may include, but are not limited to, piers, boat ramps, and elevated walkways."
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- 13. Pursuant to KPB 21.11.020, public notice was published in the Peninsula Clarion on March 14, 2024 and March 21, 2024.
- 14. The applicant is currently in compliance with Borough permits and ordinances.

Section 3. Permit Conditions

- 1. Construction techniques and best management practices shall be utilized to ensure that land disturbing activities do not result in runoff or sedimentation to the Ptarmigan Creek.
- 2. The foot bridge must be designed and installed to meet KPB floodplain requirements.
- 3. The permittee shall minimize damage to all vegetation and shall revegetate all disturbed areas with native vegetation.
- 4. For each tree removed, two seedlings less than 5.5-feet tall of a species native to the region will be planted within the 50-foot HPD.
- 5. Storage or use of fuel is prohibited within 50-feet of any open water.
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- 8. The permittee shall be held responsible for the actions of the contractors, agents, or others who perform work to accomplish the approved plan.
- 9. The construction or installation phase of this Conditional Use Permit must be completed within two calendar years from the date of the permit's issuance, or the Conditional Use Permit shall expire unless the Planning Commission finds that more time is necessary to effectuate the

purposes of this chapter, in which case the commission may extend the deadline for a maximum of six years from the date of issuance. Prior to its expiration date and upon written request, the Planning Director may grant a Conditional Use Permit extension for 12 months (KPB 21.18.081 (H)).

- 10. In addition to the penalties provided by KPB 21.18.110, and pursuant to KPB 21.50, the permit may be revoked if the permittee fails to comply with the provisions of this chapter or the terms and conditions of a permit issued under this chapter. The Borough Clerk shall provide at least 15 day's written notice to the permittee of a revocation hearing before the hearing officer (KPB 21.18.082).
- 11. The permittee shall comply with the terms, conditions and requirements of the Kenai Peninsula Borough Code of Ordinances Chapter 21.18, and any regulations adopted pursuant to this chapter.
- 12. The permittee is responsible for abiding by all other federal, state, and local laws, regulations, and permitting requirements applicable to the project (KPB 21.18.081 (G)).

Section 4. Pursuant to 21.18.081(D) General Standards, the following standards shall be met before conditional use approval may be granted:

- 1. The use or structure will not cause significant erosion, sedimentation, damage within the habitat protection district, an increase in ground or surface water pollution, and damage to riparian wetlands and riparian ecosystems; Conditions 1-5 and Finding 2 appear to support this standard.
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- 3. The development of the use or structure shall not physically damage the adjoining property; **Finding 7 appears to support this standard.**
- 4. The proposed use or structure is water-dependent; Finding 8 appears to support this standard.
- 5. Applicant's or owner's compliance with other borough permits and ordinance requirements. **Conditions 11-12 and Finding 14 appears to support this standard.**

THIS CONDITIONAL USE PERMIT EFFECTIVE ON _____ DAY OF _____, 2024.

Jeremy Brantley, Chairperson Planning Commission

ATTEST:

Ann Shirnberg Administrative Assistant Note: An appeal of a decision of the Planning Commission may be filed to the hearing officer, in accordance with the requirements of the KPB Code of Ordinances, Chapter 21.20.250. An appeal must be filed with the Borough Clerk within 15 days of date of the notice of the decision using the proper forms and be accompanied by the filing and records preparation fee.