



May 13, 2019

PUBLIC NOTICE (17-01-19)

All interested parties are notified that the Commander, Seventeenth Coast Guard District has received an application from the Alaska Department of Transportation & Public Facilities (AK DOT&PF) for a permit for a bridge crossing over a navigable waterway of the United States.

WATERWAY AND LOCATION: Kivalina Lagoon, Chukchi Sea, at Kivalina, Alaska.

CHARACTER OF WORK: The applicant proposes to construct a new, permanent water crossing consisting of a single span steel girder bridge with an approach on each end over the entire Kivalina Lagoon, a distance of approximately 3200 feet. The crossing would be an integral part of a planned all season evacuation route starting at the Kivalina community located on Kivalina Island and connecting it to a refuge/gathering site at Kisimiguiqtuq Hill (K-Hill) located on the mainland of Lisburne Peninsula on the NW coast of Alaska. The road will provide safe and reliable evacuation in the event of a catastrophic event for a remote coastal community already experiencing negative impacts associated with increased severity and number of storms and ocean surges. In addition, it will provide access to a proposed school site located on the mainland. The centerline of the proposed bridge is (approximately): 67°43'50.8686" N, 164.32°36.891" W.

The proposed bridge is 27 feet-4 inches wide with a maximum length of 184 feet. The bridge will span the 110-foot lagoon navigational channel. The western bridge approach material will begin at the center of the existing road in Kivalina immediately adjacent the lagoon and extend eastward approximately 500 ft. over the lagoon to the west end of the steel bridge that spans the lagoon navigational channel. The eastern approach will extend approximately 2590 feet eastward over the lagoon from the east end of the steel bridge to the shore of the mainland located east of Kivalina Island. Both bridge approaches, combined, will equal 3,090 feet in total length and contain approximately 195,000 cubic yards of fill consisting of clean gravel, rock and rip rap into 8.2 acres of the lagoon. Use of the waterway is primarily smaller boats engaged in recreational and subsistence activities. There are no existing bridges in the lagoon or other nearby waterways. The eastern terminus of the mainland bridge approach, will connect to a recently constructed 6.5-mile road located on the mainland heading northeasterly to Kisimigiqtuq Hill (K-Hill).

MINIMUM NAVIGATIONAL CLEARANCES:

	<u>Horizontal Clearance</u> (at MHHW)	<u>Vertical Clearance</u> (above MHHW)
Proposed Permanent Bridge	110 feet	13.6 feet (at center of span)

Mean High High Water (MHHW) = 3.9 feet (NAVD88 DATUM)

Horizontal: 110 feet from bank to bank

Vertical: 13'-6" from Mean High Water to low steel (bottom of bridge)

ENVIRONMENTAL CONSIDERATIONS:

The lead agency for satisfying the requirements of the National Environmental Policy Act (NEPA) (40 CFR § 1506.11) is the Alaska Department of Transportation & Public Facilities (AKDOT&PF), which assumed NEPA responsibilities of the Federal Highway Administration (FHWA) pursuant to 23 U.S.C. 327 and a Memorandum of Understanding dated November 3, 2017, between FHWA and AKDOT&PF.

An Environmental Assessment (EA) was prepared by the applicant and completed on January 19, 2018. The Coast Guard anticipates adopting that portion of the environmental document associated with the bridge and approaches and issuing an independent Finding of No Significant Impact (FONSI) based on contents of the EA and comments received as a result of this public notice. Documents relative to the EA and the proposed permit will be available for review at the address indicated in the last paragraph of this notice, Monday through Friday from 7:30 a.m. to 3:00 p.m. except federal holidays.

The Alaska Department of Environmental Conservation (ADEC) has conditionally certified, by Letter of Reasonable Assurance (dated April 30, 2018) that the fill placed in the waterway associated with the bridge approaches (authorized by a USACE permit (POA-2012-124) should not result in a violation of established Alaska Surface Water Quality Standards as required by Section 401 of the Federal Clean Water Act and pursuant to Alaska State law. Public Notice of the application for this certification was given as required by 18 AAC 15.180 in the Corps Public Notice posted from February 22, 2018 to March 26, 2018. No wetlands will be impacted by the bridge or approaches. The State of Alaska withdrew from participation in the National Coastal Management Program on July 1, 2012. The coastal base flood elevation (i.e. 100-year flood elevation) is 12.6 feet relative to MHHW. There are federally designated threatened or endangered species and/or critical habitat in the area the proposed project is located. The U.S. Fish and Wildlife Service, in a December 21, 2017 letter, determined that, while the proposed action could temporarily disturb listed eiders and polar bears, it does not expect an adverse effect. The National Marine Fisheries Service provided a concurrence letter dated January 9, 2018 with regards to Section 7 of The Marine Mammal Protection Act. USFWS provided a Section 7 ESA Concurrence letter dated December 21, 2017. The National Marine Fisheries Service (NMFS) has reviewed

DOT&PF's Essential Fish Habitat (EFH) Assessment and, in a December 14, 2017 letter, agreed with AKDOT&PF's determination that the lagoon crossing would not likely adversely affect EFH. NMFS did; however, make EFH Conservation Recommendations, including that DOT&PF consult with NMFS on best practices prior to extracting material from the Wulik River. AKDOT&PF agreed with the recommendations, in a December 20, 2017 letter, and proposed to use the Wulik River as a material source only if other sources are exhausted. Invasive Species issues were addressed via seeding of disturbed areas consistent with an Alaska DNR Division of Agriculture recommended, regionally appropriate seed mix that minimizes introduction of invasive plant species. All geotechnical materials used for the project will originate from previously undisturbed, local areas within the project area. The Alaska State Historic Preservation Officer (SHPO), in an October 9, 2017 letter, concurred with DOT&PF's finding of no historic properties adversely affected by the proposed project. The SHPO also concurred that the project will not adversely affect Cape Krusenstern Archaeological District National Monument National Historic Landmark. The project is not located within a nonattainment area or maintenance area for any criteria pollutant under the National Ambient Air Quality Standards (NAAQS).

SOLICITATION OF COMMENTS:

Mariners are requested to comment on the placement of a bridge protective system and other navigational safety issues, including the need for clearance gauges and extent of nighttime navigation passing through the bridge to determine the need for bridge lighting. Boat owners in the project vicinity are requested to provide information about their vessels including type of vessel, length overall, draft, beam, and height from the waterline to the highest fixed point.

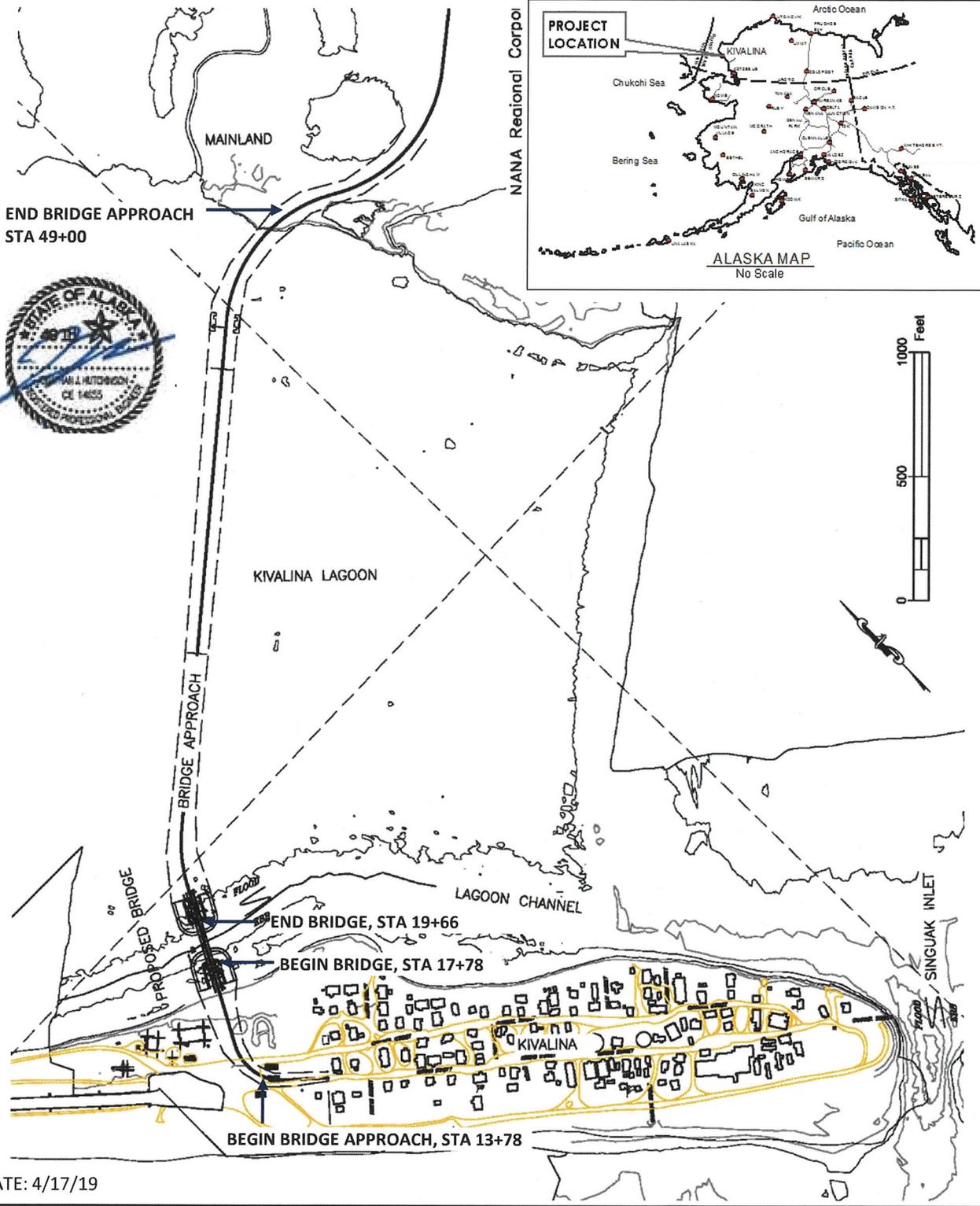
Interested parties are requested to express their views in writing on the proposed bridge project, giving sufficient detail to establish a clear understanding of their reasons for support of or opposition to the proposed work. Comments will be received at the office of: Commander, Seventeenth Coast Guard District (dpw-bridges), P.O. Box 25517 Juneau, Alaska 99802, for a 30-day period from the date of the public notice.

"/s/"/

James Helfinstine
Bridge Program Administrator
Seventeenth Coast Guard District
By direction of the District Commander

"This is a web-searchable copy and is not the official, signed version; however, other than the signature being omitted, it is a duplicate of the official version"

Map of location and plans attached



NANA Regional Corpor

DATE: 4/17/19

NOTES:

1. PERMIT FIGURES ARE NOT TO BE USED FOR CONSTRUCTION. ENGINEER STAMP APPLIES STRICTLY TO THE NAVIGATIONAL OPENING AND GENERAL LOCATION INFORMATION. BRIDGE DESIGN MEETS AASHTO STANDARDS AND BRIDGE HAS BEEN DESIGNED TO WITHSTAND AN IMPACT FROM VESSELS THAT TYPICALLY USE THE WATERWAY.
2. PROPERTY ADJACENT TO THE PROPOSED BRIDGE IS OWNED BY NANA (TO THE EAST) AND CITY OF KIVALINA (WEST).
3. ELEVATIONS REFERENCE NAVD88 VERTICAL DATUM.
4. PROPOSED BRIDGE IS LOCATED 0.5 MILES FROM THE SINGUAK INLET (CONFLUENCE OF CHUKCHI SEA WITH THE WULIK RIVER)

OWNER/AGENT: Alaska DOT&PF
 KIVALINA LAGOON BRIDGE
 Kivalina, Alaska
 Project # NFWHY00162

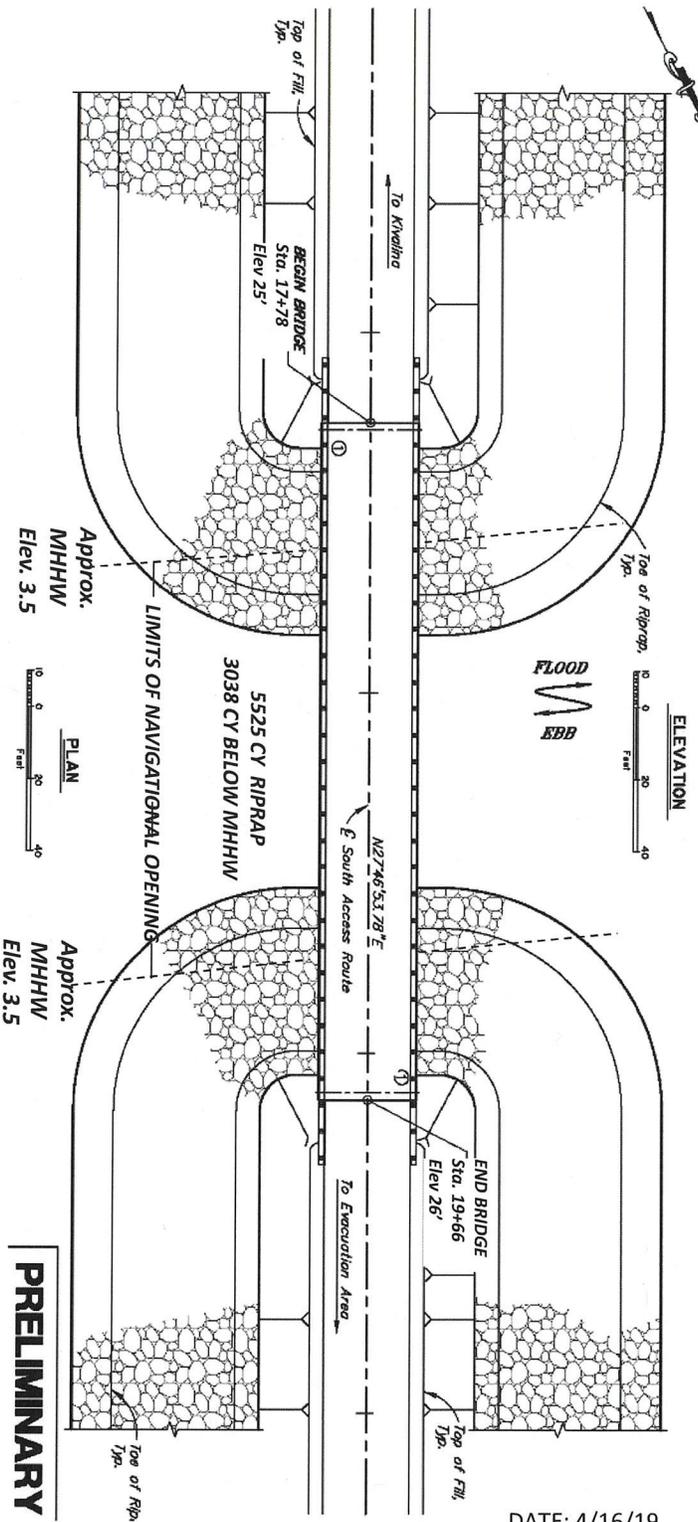
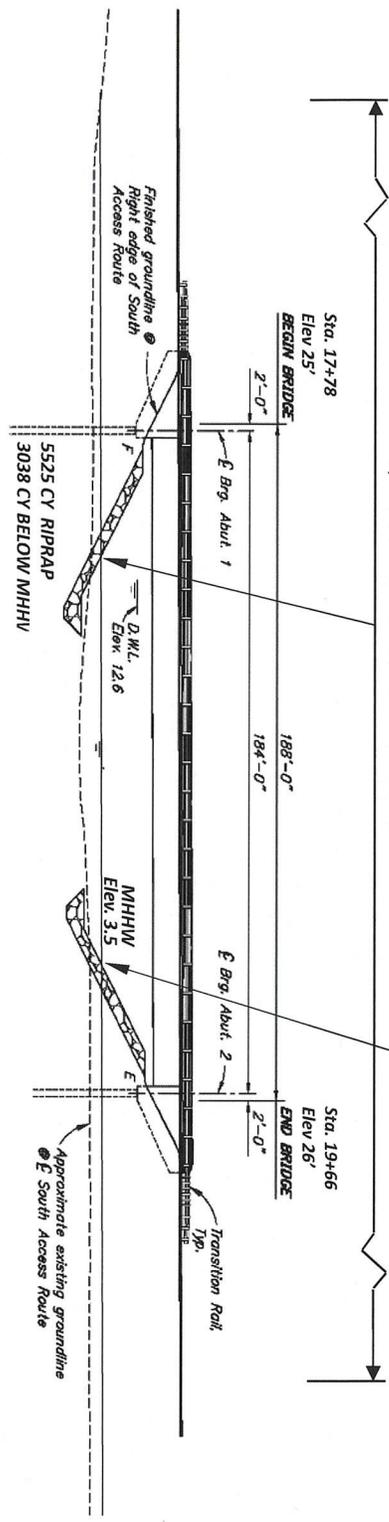
Kateel River Meridian
 T 27N R26W Section 21

BRIDGE PLANS
 Sheet 1 of 5

FILL IN KIVALINA LAGOON	FILL BELOW MHHW (CY)	TOTAL FILL (CY)
BRIDGE AND APPROACHES	56,000	290,000

Navigation Opening:
 Horizontal (full width of channel): 110 feet
 Vertical Clearance (MHHW to low steel): 13' - 6"

3,522 TOTAL LENGTH FOR BRIDGE AND APPROACHES



DATE: 4/16/19



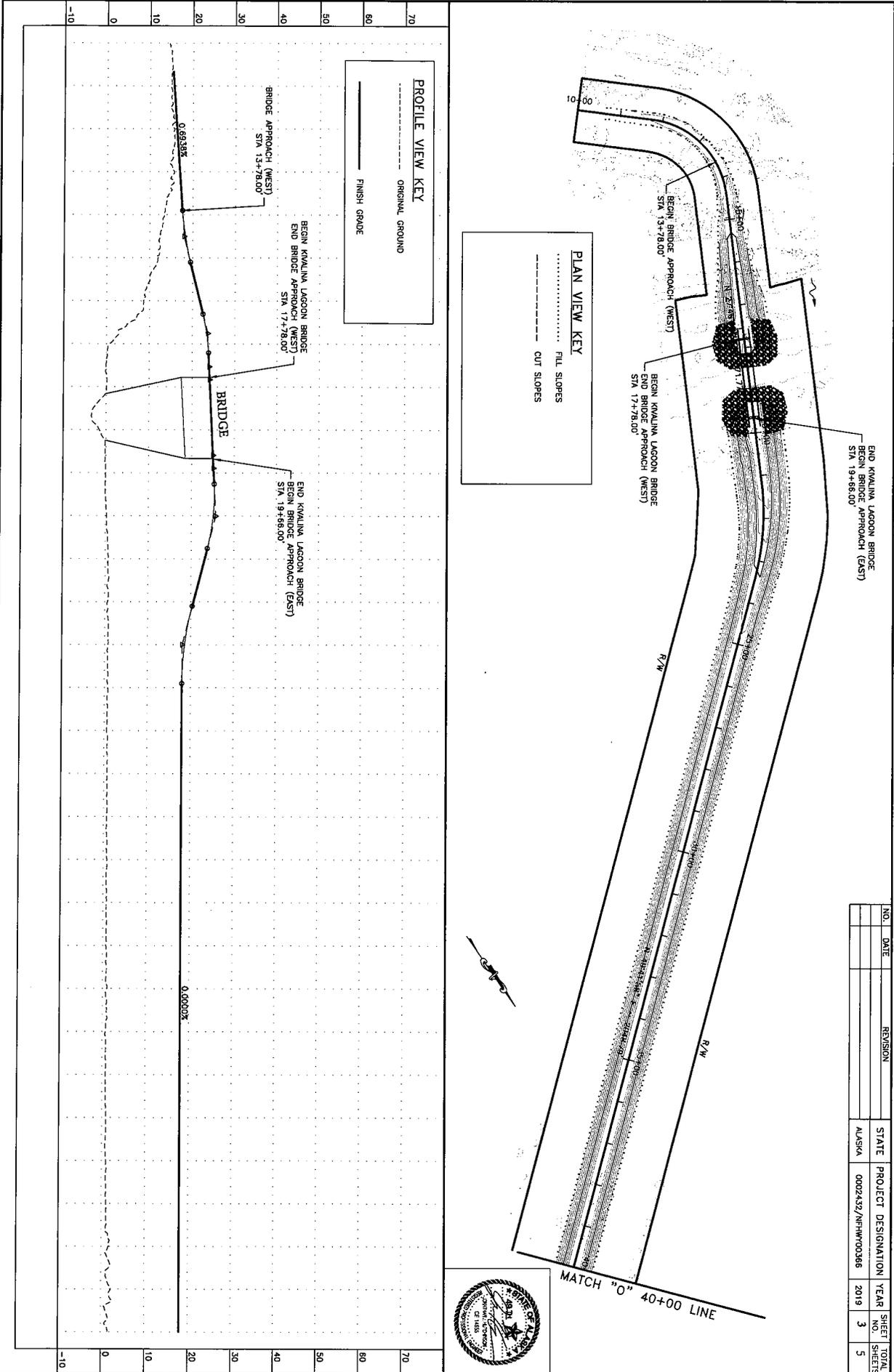
PRELIMINARY

- NOTES:**
1. PERMIT FIGURES ARE NOT TO BE USED FOR CONSTRUCTION. ENGINEER STAMP APPLIES STRICTLY TO THE NAVIGATIONAL OPENING AND GENERAL LOCATION INFORMATION. BRIDGE DESIGN MEETS AASHTO STANDARDS AND BRIDGE HAS BEEN DESIGNED TO WITHSTAND AN IMPACT FROM VESSELS THAT TYPICALLY USE THE WATERWAY.
 2. PROPERTY ADJACENT TO THE PROPOSED BRIDGE IS OWNED BY NANA (TO THE EAST) AND CITY OF KIVALINA (WEST).
 3. ELEVATIONS REFERENCE NAVD88 VERTICAL DATUM.
 4. CHANNEL DEPTH IS APPROXIMATELY 4' AT MHHW (ELEV 3.5'). THE ESTIMATED 100-YR FLOOD ELEVATION IS 12.6'.
 5. PROPOSED BRIDGE IS LOCATED 0.5 MILES FROM THE SINGUAK INLET (CONFLUENCE OF CHUKCHI SEA WITH THE WULIK RIVER)

OWNER/AGENT: Alaska DOT&P
 KIVALINA LAGOON BRIDGE
 Kivalina Lagoon , Alaska
 Project # NFHWY00162

Kateel River Meridian
 T 27N R26W Section 21

BRIDGE PLANS
 Sheet 2 of 5



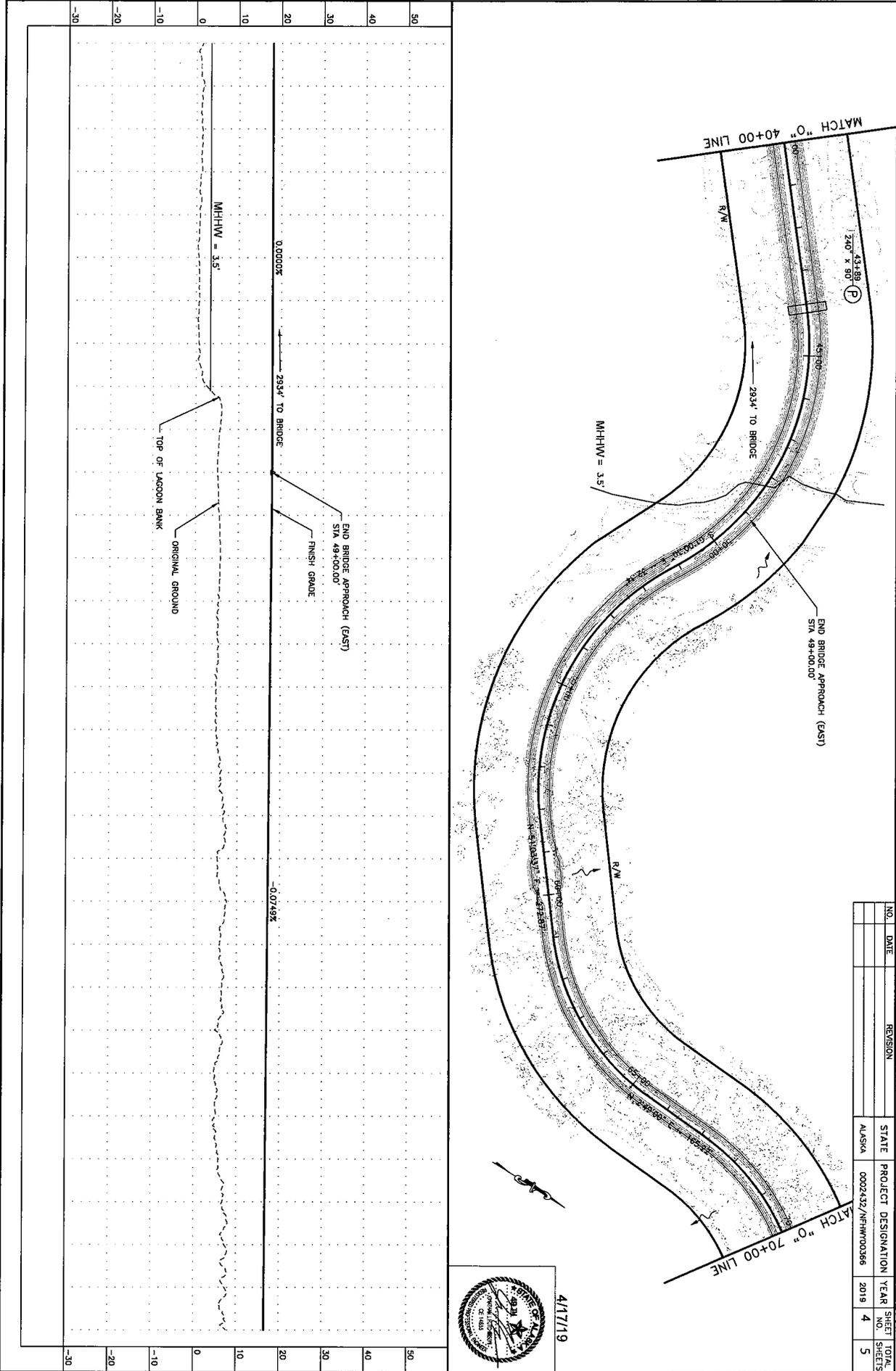
PROFILE VIEW KEY
 - - - - - ORIGINAL GROUND
 ——— FINISH GRADE

PLAN VIEW KEY
 FILL SLOPES
 - - - - - CUT SLOPES

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002432/NEHW00366	2019	3	5



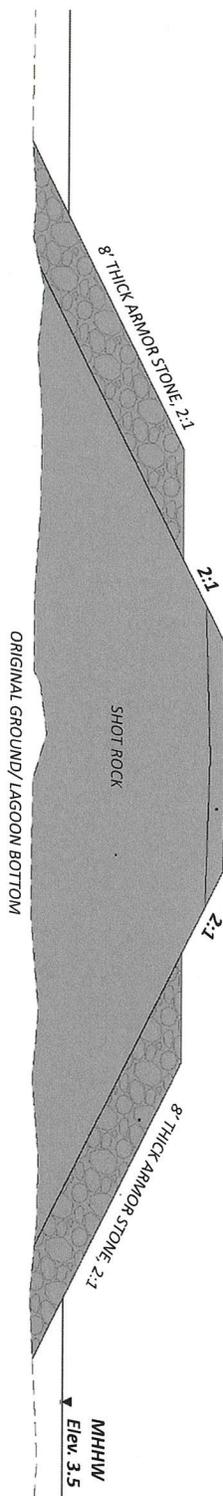
MATCH "O" 40+00 LINE



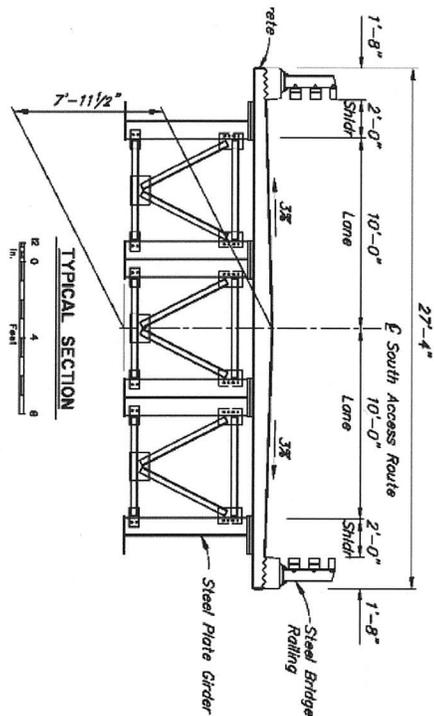
NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	0002432/NEHW00366	2019	4	5



4/17/19



TYPICAL SECTION AT APPROACHES



TYPICAL SECTION ACROSS BRIDGE



DATE: 4/17/19

NOTES:

1. PERMIT FIGURES ARE NOT TO BE USED FOR CONSTRUCTION. ENGINEER STAMP APPLIES STRICTLY TO THE NAVIGATIONAL OPENING AND GENERAL LOCATION INFORMATION. BRIDGE DESIGN MEETS AASHTO STANDARDS AND BRIDGE HAS BEEN DESIGNED TO WITHSTAND AN IMPACT FROM VESSELS THAT TYPICALLY USE THE WATERWAY.
2. PROPERTY ADJACENT TO THE PROPOSED BRIDGE IS OWNED BY NANA (TO THE EAST) AND CITY OF KIVALINA (WEST).
3. ELEVATIONS REFERENCE NAVD88 VERTICAL DATUM.
4. CHANNEL DEPTH IS APPROXIMATELY 4' AT MHHW (ELEV 3.5'). THE ESTIMATED 100-YR FLOOD ELEVATION IS 12.6'.
5. PROPOSED BRIDGE IS LOCATED 0.5 MILES FROM THE SINGUAK INLET (CONFLUENCE OF CHUKCHI SEA WITH THE WULIK RIVER)

OWNER/AGENT: Alaska DOT&PF
KIVALINA LAGOON BRIDGE
Kivalina Lagoon , Alaska
Project # NFHWY00162

Kateel River Meridian
T 27N R26W Section 21

BRIDGE PLANS
Sheet 5 of 5