



## PUBLIC NOTICE

Alaska Department of Environmental Conservation (DEC)  
Wastewater Discharge Authorization Program/§401 Certification  
555 Cordova Street, Anchorage AK9501-2617  
Phone: 907-269-6285 | Email: [DEC-401Cert@alaska.gov](mailto:DEC-401Cert@alaska.gov)

# Notice of Application for State Water Quality Certification

**Public Notice (PN) Date:** April 12, 2024  
**PN Expiration Date:** May 5, 2024

**PN Reference Number:** POA-2022-00555 v1.0  
**Waterway:** Nenana River

Any applicant for a federal license or permit to conduct an activity that might result in a discharge into waters of the United States, in accordance with Section 401 of the Clean Water Act (CWA), must also apply for and obtain certification from the Alaska Department of Environmental Conservation that the discharge will comply with the CWA and the Alaska Water Quality Standards (18 AAC 70). The scope of certification is limited to the water quality-related impacts from the activity subject to the Federal license or permit (40 CFR 121.3, 18 AAC 15.180).

Notice is hereby given that a request for a CWA §401 Water Quality Certification of a Department of the Army Permit application, Corps of Engineers' PN Reference Number indicated above has been received<sup>1</sup> for the discharge of dredged and/or fill materials into waters of the United States (WOTUS), including wetlands, as described below, and shown on the project figures/drawings. The public notice and related project figures/drawings are accessible from the DEC website at <https://dec.alaska.gov/water/wastewater/>.

To comment on the project or request for a public hearing with respect to water quality, submit comments electronically via the DEC public notice site at <https://water.alaskadec.commentinput.com?id=ethbUdx2F9> on or before the public notice expiration date listed above.

**Applicant:** Alaska Department of Transportation and Public Facilities, Kerri Martin, 2301 Peger Road, Fairbanks, AK 99709, (907) 451-5289; [kerri.martin@alaska.gov](mailto:kerri.martin@alaska.gov)

**Project Name:** Nenana-Totchaket Road - Road Widening

**Dates of the proposed activity is planned to begin and end:** 07/01/2024 to 11/01/2025

**Location:** The proposed activity is located within Section 14, 17-23, T. 4S, R. 8W, Fairbanks Meridian, in Yukon-Koyukuk Census Area, Alaska. Section 2, 7, 8, 10-13, 15, 16, T. 4S, R. 9W, Section 11-12, T. 4S, R. 10W and Project Site (Latitude, Longitude): 64.55729, -149.11796.

**Purpose:** The purpose of the proposed project is to widen Totchaket Road and install additional cross-drainage culverts along the roadway. This project is needed to standardize the road width to accommodate an American Association of State Highway and Transportation Officials (AASHTO) standard, 24' driving surface and alleviate seasonal flooding of the roadway due to snow melt through raising of the road elevation in areas experiencing settlement and providing adequate drainage structures for movement of water from one side of the road to the other.

At the time of submission of this application, work is underway to replace the bridges crossing the Little Nenana, East Middle, and West Middle Rivers, a project with independent utility from the proposed road widening. Planned future work in the Nenana Basin is restricted to the potential construction of new subdivision roads between parcels sold as part of the Nenana-Totchaket Agriculture Project. Construction of these subdivision roads is not dependent upon the proposed widening of Totchaket Road and may occur even if funding for the proposed road widening is not obtained for the 2024 construction season. Field work for the planned subdivision roads is ongoing

<sup>1</sup> Reference submission number: HQ0-CGT6-VXYPN; Received: 02/22/2024 10:16 AM

and is anticipated to be completed by the end of summer 2024. At this time no related activities are anticipated to be developed as a result of the proposed work detailed in this application.

**Description of Proposed Work:** The existing approximately 12.1 miles of Totchaket Road are proposed to be widened from the current variable 15'-24' width to a standard 24' driving surface. Widening of the driving surface of the roadway will result in a widening of the overall footprint of Totchaket Road from approximately 24' to a maximum extent of approximately 40'. The road widening will be accomplished using the same materials used to construct the original road; sand will be used for the road base and crushed aggregate will be used to surface the road. Road widening in delineated wetlands will be minimized to the furthest extent practicable by filling in uplands when only one side of the road has been delineated as wetland except in cases where fill in wetlands is required in order to maintain road alignment and to account for settling of road embankments adjacent to wetlands. Road embankments will be built at 3:1 for sections of the road that traverse wetlands in order to reduce overall road footprint and to reduce the amount of fill placed in these areas.

In addition, the installation of approximately 10 new cross-drainage culverts and replacement of approximately 7 existing cross-drainage culverts is proposed to help alleviate seasonal flooding where the current road alignment bisects wetland features. Newly installed and replacement culverts are anticipated to be 24" diameter corrugated metal pipes. Culvert locations have been determined through site visits during spring break up in 2022 and 2023. Some adjustments to exact culvert locations may be required during construction but are not anticipated to deviate significantly from the locations listed in Figure 15. By adding cross-drainage culverts to the proposed areas, connectivity of wetland complexes will be promoted and siltation of wetlands due to water overtopping the road will be reduced. Temporary work zones are proposed around the ends of each culvert location for equipment access, should it be needed. See Section 404/Waters of the U.S. Involvement for more information on temporary impacts.

Material for the proposed project will be contractor furnished. Material is anticipated to be sourced from a combination of sand sources along Totchaket Road and commercially available rock sources near the City of Nenana.

The proposed project is anticipated to result in the permanent loss of approximately 1.625 acres (70,806 square feet) of Waters of the U.S. (WOTUS) through the placement of approximately 5,326 cubic yards (cy) of sand extracted from existing material sources along Totchaket Road. Permanent impacts to WOTUS will result from widening of the existing Totchaket Road in areas where settlement has occurred and where the road surface is less than the standard 24 feet width.

Additionally, the proposed action is anticipated to result in approximately 2.669 acres (116,262 square feet) of temporary impacts to WOTUS. Temporary impacts will result primarily from clearing of vegetation from the toe of the road embankment out approximately 10 feet. Temporary impacts may also result from the need for temporary work zones around the ends of each proposed new and replacement culvert. Temporary work zones will be used in cases where trenchless culvert installation is preferred over closing road access and excavating the road prism for trench installation. Temporary work zones will be established as a 10 feet (W) x 20 feet (L) area extending from the ends on each proposed and known culvert location. Temporary impacts are not anticipated to result in temporary placement of fill material in WOTUS.

**Additional Information:** Previous projects were authorized by the Corps along Totchaket road. They were determined to have independent utility from the proposed road widening and include the replacement of the existing bridges crossing the Little Nenana River, West Middle River, and East Middle River were permitted under POA-2023-00248, POA-2023-00249, and POA-2023-00250 respectively. In addition, work associated with the improvement and stabilization of the section of Totchaket Road crossing 5-Mile Slough was authorized under POA-2023-00091.

**Applicant Proposed Mitigation:** The applicant proposes the following mitigation measures to avoid, minimize, and compensate for impacts to waters of the United States from activities involving discharges of dredged or fill material.

a. Avoidance:

- No fueling or maintenance of vehicles or construction equipment will occur within 100' of wetlands or waterbodies.
- Construction vehicles will be cleaned of vegetative debris prior to entering the limits of construction to limit the spread of invasive species.
- Mechanical vegetation clearing activities will be conducted outside of the USFWS recommended timing window for land disturbance and vegetation clearing to avoid take of migratory bird nests within the project area.

b. Minimization: During the process, DOT&PF made efforts to avoid and minimize impacts to WOTUS in the project area to the greatest extent practical through the following measures:

- Road widening in delineated wetlands will be minimized to the furthest extent practicable by filling in uplands when only one side of the road has been delineated as wetland except in cases where fill in wetlands is required to maintain road alignment and to account for settling of road embankments adjacent to wetlands.
- Drainage facilities have been designed to maintain, replicate, or improve existing drainage conditions to reduce the likelihood of water overtopping the roadway, leading to sedimentation of adjacent wetlands.
- Road sideslopes will be constructed with a maximum slope of 3:1 to minimize the overall footprint of the roadway while still ensuring stability of road embankments.
- A 25' vegetative buffer beyond temporary work zones/vegetation clearing areas will be maintained in wetland areas along the length of the proposed project area.
- Vegetation clearing in wetland areas outside of the proposed footprint will be accomplished while soils are frozen or by hand using only low-pressure, wheeled ATVs for access to minimize temporary impacts to wetlands.

c. Mitigation: DOT&PF is not proposing any compensatory mitigation measures at this time.

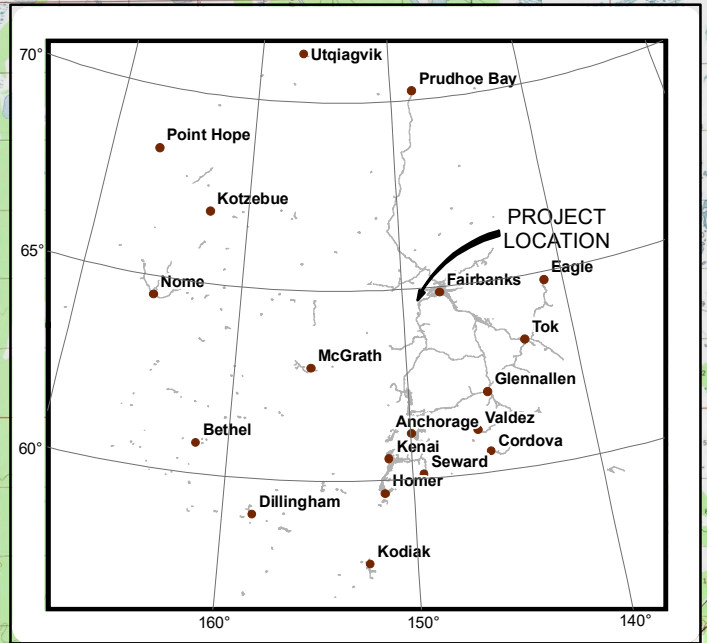
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After reviewing the application, the Department will evaluate whether the activity will comply with applicable water quality requirements (any limitation, standard, or other requirement under sections 301, 302, 306, and 307 of the CWA, any Federal and state laws or regulations implementing those sections, and any other water quality-related requirement of state law). The Department may certify (or certify with conditions) with reasonable assurance the activity and any discharge that might result will comply with water quality requirements. The Department also may deny or waive certification.

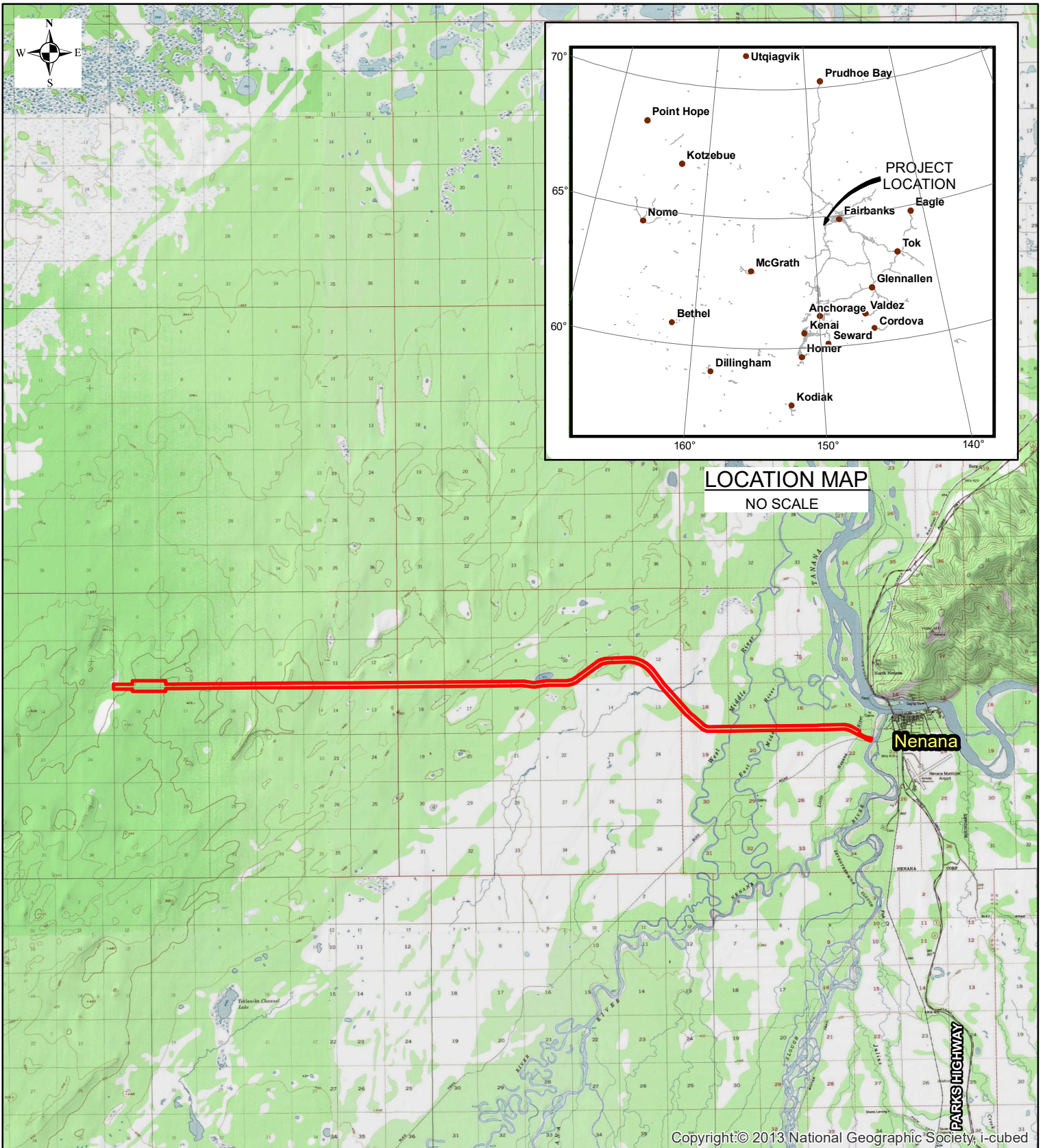
The permit application and associated documents are available for review. For inquires or to request copies of the documents, contact [dec-401cert@alaska.gov](mailto:dec-401cert@alaska.gov), or call 907-269-6285.

### **Disability Reasonable Accommodation Notice**

The State of Alaska, Department of Environmental Conservation complies with Title II of the Americans with Disabilities Act (ADA) of 1990. If you are a person with a disability who may need special accommodation in order to participate in this public process, please contact ADA Coordinator Megan Kohler at 907-269-4198 or TDD Relay Service 1-800-770-8973/TTY or dial 711 prior to the expiration date of this public notice to ensure that any necessary accommodations can be provided.



**LOCATION MAP**  
NO SCALE



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**VICINITY MAP**  
NO SCALE

Township	Range	Section(s)	USGS Quad Map	Meridian
004S	008W	14,17-23	Fairbanks C-5	Fairbanks
004S	009W	2,7-8,10-13,15-16	Fairbanks C-5	Fairbanks
004S	010W	11-12	Fairbanks C-5	Fairbanks

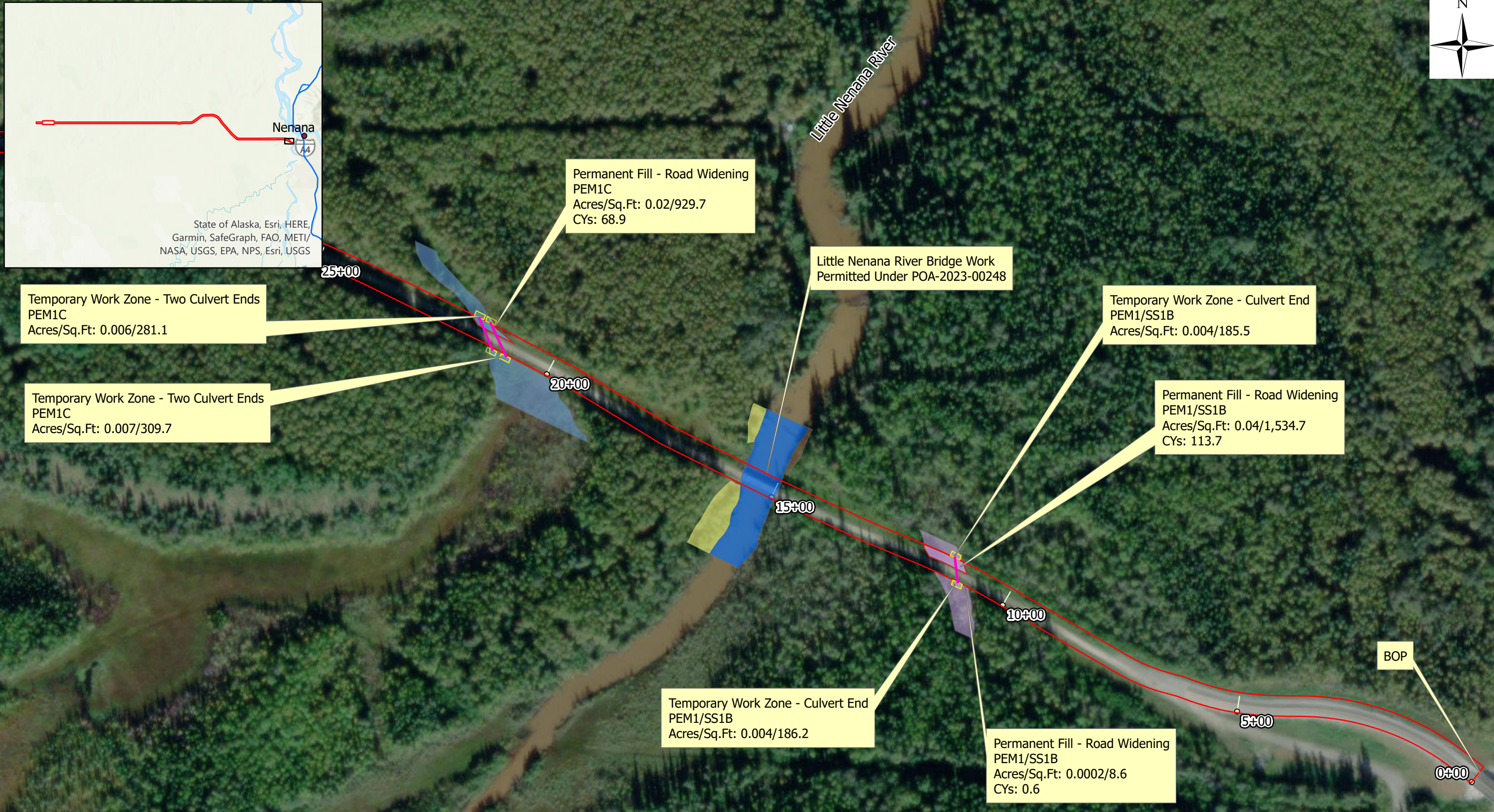
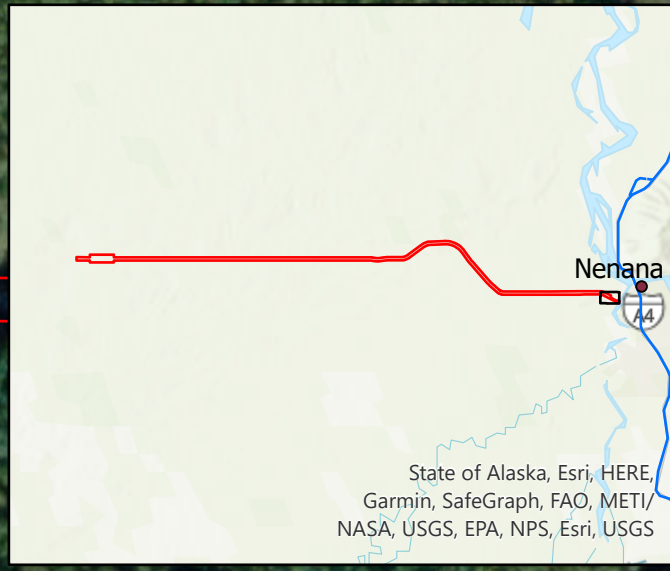
**POA-2023-00555**  
**Nenana River, Little Nenana River, East Middle River, West Middle River, Wetlands**  
**November 2023**  
**Sheet 1 of 15**

STATE OF ALASKA  
 Department of Transportation and Public Facilities  
 2301 Peger Road Fairbanks, AK 99709

**NENANA-TOTCHAKET ROAD WIDENING**  
**VICINITY MAP**  
**NSHWY00657**  
**NENANA, ALASKA**

Date: November 2023

Figure 1



### Legend

- Proposed Widened Road
- Proposed New Culverts
- Temporary Culvert Work Zone

- COWARDIN**
- PEM1/SS1B
  - PEM1/SS1C
  - PEM1/SS1F
  - PEM1A

- PEM1B
- PEM1C
- PFO4/SS1B
- PFO4B
- PSS1/EM1B

- PSS1/EM1C
- PSS1B
- PSS1C
- PSS1F
- PSS4B

- PUBH
- R2UBH
- R3UBH

POA-2023-00555  
 Nenana River, Little Nenana River, East Middle River, West Middle River, Wetlands  
 November 2023  
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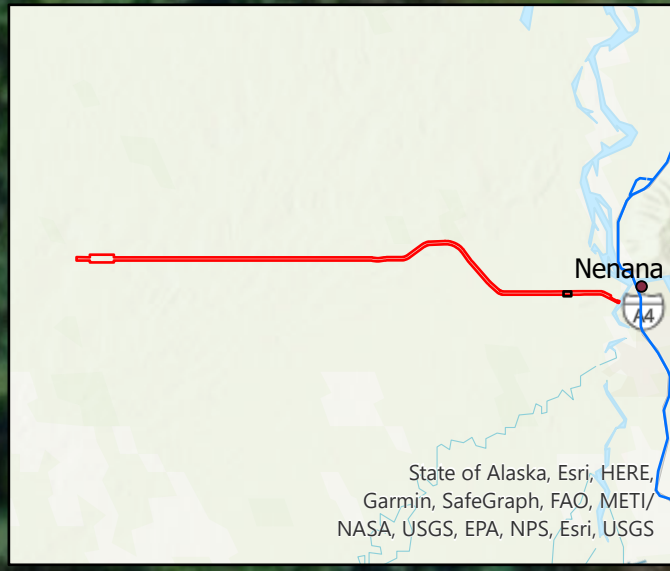


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 Department of Transportation and Public Facilities  
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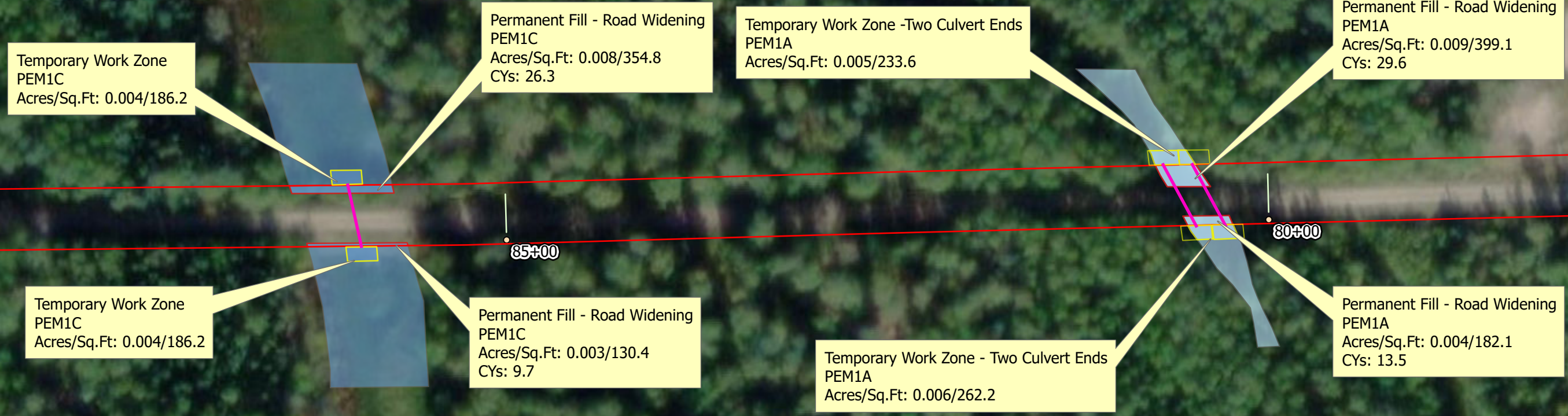
Date: July 2023

Figure 2

**Nenana-Totchaket Road  
 Nenana, AK**



State of Alaska, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS, Esri, USGS



### Legend

- Proposed Widened Road
- Proposed New Culverts

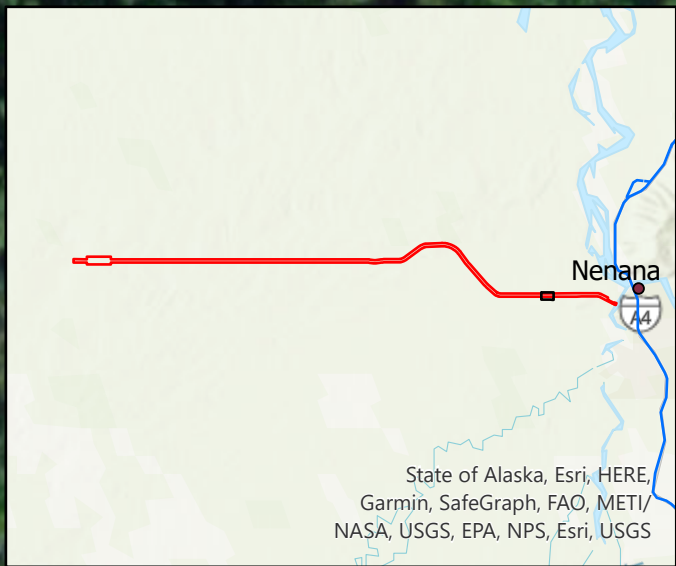
- Temporary Culvert Work Zone

- COWARDIN**
- PEM1/SS1B
  - PEM1/SS1C
  - PEM1/SS1F
  - PEM1A

- PEM1B
- PEM1C
- PFO4/SS1B
- PFO4B
- PSS1/EM1B
- PSS1/EM1C
- PSS1B
- PSS1C
- PSS1F
- PSS4B

- PUBH
- R2UBH
- R3UBH

Microsoft



State of Alaska, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS, Esri, USGS

Permanent Fill - Road Widening  
PEM1B  
Acres/Sq.Ft: 0.007/314.6  
CYs: 23.3

Permanent Fill - Road Widening  
PEM1B  
Acres/Sq.Ft: 0.005/203.1  
CYs: 15.0

Temporary Work Zone - Culvert End  
PEM1B  
Acres/Sq.Ft: 0.003/135.6

Temporary Work Zone - Culvert End  
PEM1B  
Acres/Sq.Ft: 0.003/141.5

East Middle River Bridge Work  
Permitted Under POA-2023-00250

115+00

110+00

105+00

East Middle River

### Legend

- Proposed Widened Road
  - Proposed New Culverts
  - Temporary Culvert Work Zone
- COWARDIN**
- PEM1/SS1B
  - PEM1/SS1C
  - PEM1/SS1F
  - PEM1A
  - PEM1B
  - PEM1C
  - PFO4/SS1B
  - PFO4B
  - PSS1/EM1B
  - PSS1/EM1C
  - PSS1B
  - PSS1C
  - PSS1F
  - PSS4B
  - PUBH
  - R2UBH
  - R3UBH

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Nenana River, Little Nenana River, East Middle River, West Middle River, Wetlands  
November 2023  
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STATE OF ALASKA  
Department of Transportation and Public Facilities  
2301 Peger Road Fairbanks, AK 99709

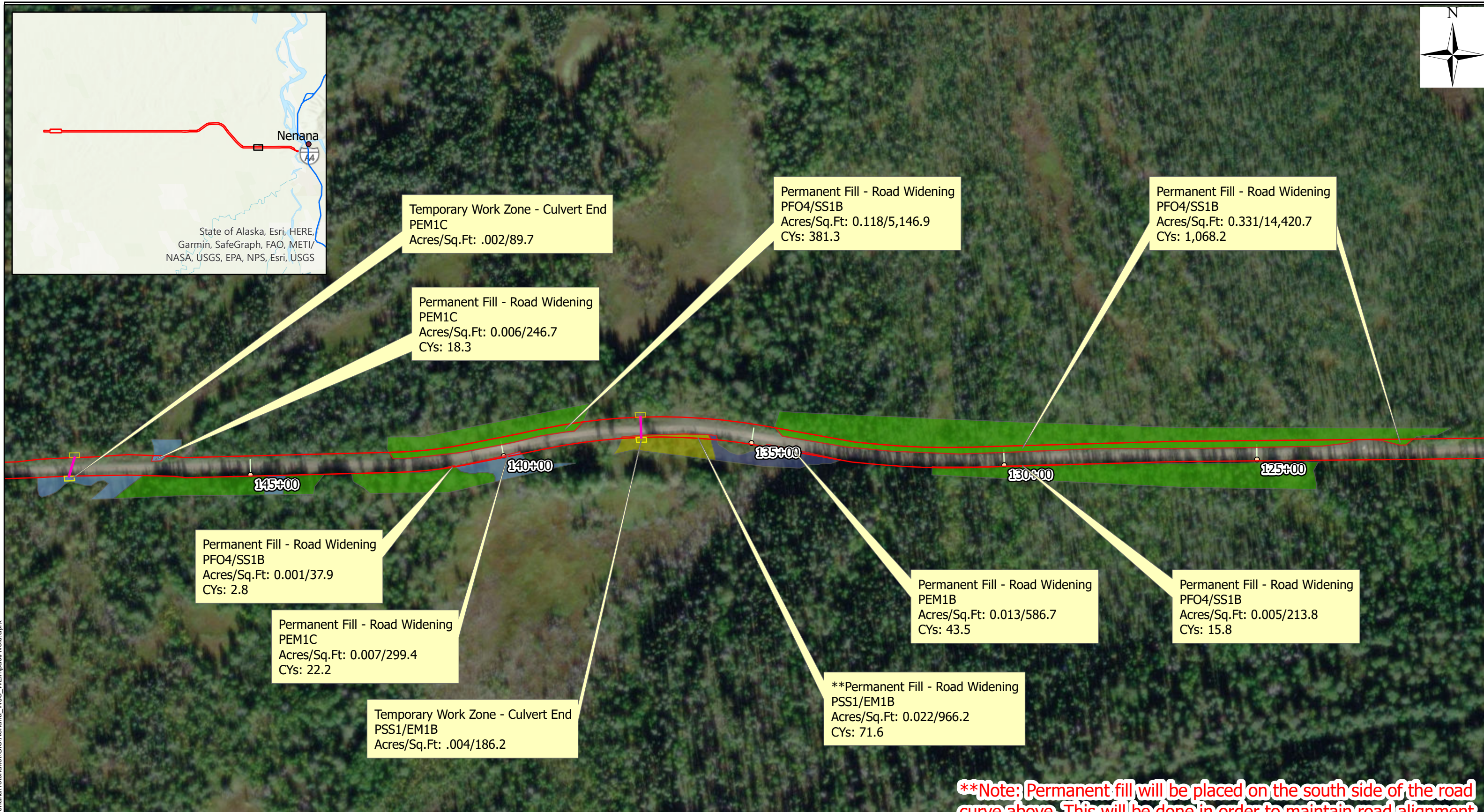
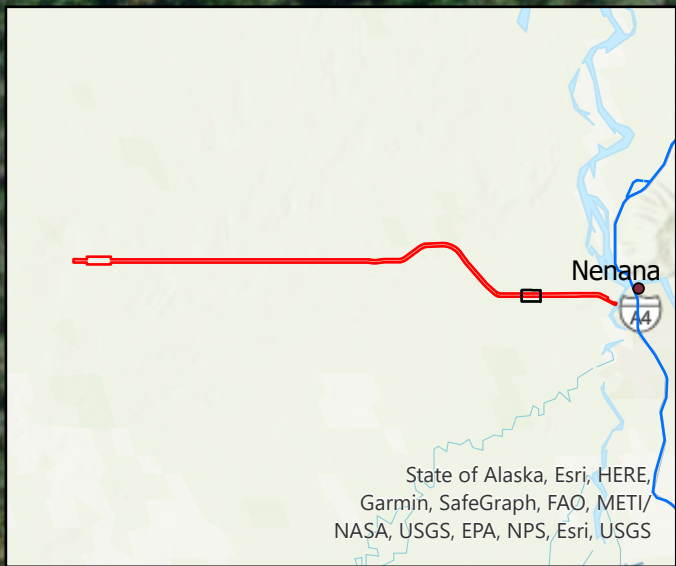
Date: July 2023

Figure 4

**Nenana-Totchaket Road  
Nenana, AK**

Microsoft

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Temporary Work Zone - Culvert End  
PEM1C  
Acres/Sq.Ft: .002/89.7

Permanent Fill - Road Widening  
PFO4/SS1B  
Acres/Sq.Ft: 0.118/5,146.9  
CYs: 381.3

Permanent Fill - Road Widening  
PFO4/SS1B  
Acres/Sq.Ft: 0.331/14,420.7  
CYs: 1,068.2

Permanent Fill - Road Widening  
PEM1C  
Acres/Sq.Ft: 0.006/246.7  
CYs: 18.3

Permanent Fill - Road Widening  
PFO4/SS1B  
Acres/Sq.Ft: 0.001/37.9  
CYs: 2.8

Permanent Fill - Road Widening  
PEM1C  
Acres/Sq.Ft: 0.007/299.4  
CYs: 22.2

Temporary Work Zone - Culvert End  
PSS1/EM1B  
Acres/Sq.Ft: .004/186.2

\*\*Permanent Fill - Road Widening  
PSS1/EM1B  
Acres/Sq.Ft: 0.022/966.2  
CYs: 71.6

Permanent Fill - Road Widening  
PEM1B  
Acres/Sq.Ft: 0.013/586.7  
CYs: 43.5

Permanent Fill - Road Widening  
PFO4/SS1B  
Acres/Sq.Ft: 0.005/213.8  
CYs: 15.8

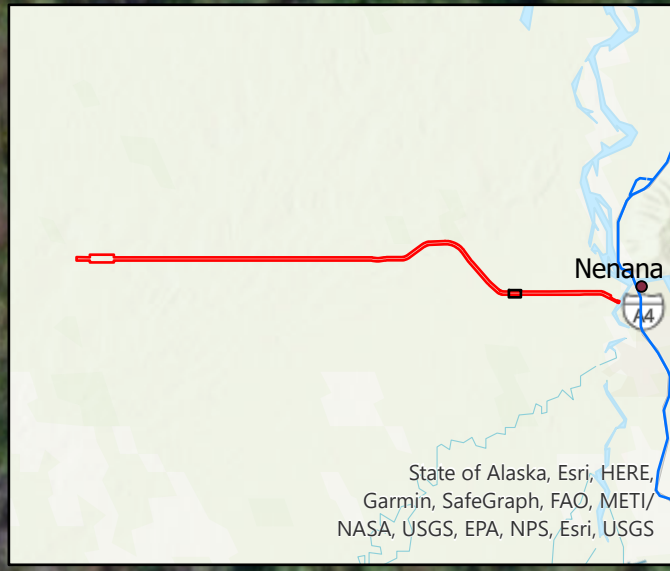
### Legend

- Proposed Widened Road
  - Proposed New Culverts
  - Temporary Culvert Work Zone
- COWARDIN**
- PEM1/SS1B
  - PEM1/SS1C
  - PEM1/SS1F
  - PEM1A
  - PEM1B
  - PEM1C
  - PFO4/SS1B
  - PFO4B
  - PSS1/EM1B
  - PSS1C
  - PSS1F
  - PSS4B
  - PSS1/EM1C
  - PSS1B
  - PSS1C
  - PSS1F
  - PSS4B
  - PUBH
  - R2UBH
  - R3UBH

**\*\*Note: Permanent fill will be placed on the south side of the road curve above. This will be done in order to maintain road alignment and to account for settling of the embankment on the south side of the road.**







State of Alaska, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS, Esri, USGS

Permanent Fill - Road Widening  
PSS1B  
Acres/Sq.Ft: 0.015/657.8  
CYs: 48.8

West Middle River Bridge Work  
Permitted Under POA-2023-00249

Temporary Work Zone - Culvert End  
PEM1C  
Acres/Sq.Ft: 0.004/186.2



### Legend

- [Red Line] Proposed Widened Road
- [Yellow Box] Temporary Culvert Work Zone
- [Pink Box] PEM1/SS1B
- [Blue Box] PEM1B
- [Light Green Box] PSS1/EM1C
- [Blue Box] PUBH
- [Pink Box] PEM1/SS1C
- [Light Blue Box] PEM1C
- [Light Green Box] PSS1B
- [Blue Box] R2UBH
- [Purple Box] PEM1/SS1F
- [Green Box] PFO4/SS1B
- [Light Green Box] PSS1C
- [Light Blue Box] PEM1A
- [Green Box] PFO4B
- [Light Green Box] PSS1F
- [Light Green Box] PSS4B
- [Light Green Box] PSS1/EM1B
- [Light Blue Box] R3UBH

POA-2023-00555  
Nenana River, Little Nenana River, East Middle River, West Middle River, Wetlands  
November 2023  
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Department of Transportation and Public Facilities  
2301 Peger Road Fairbanks, AK 99709

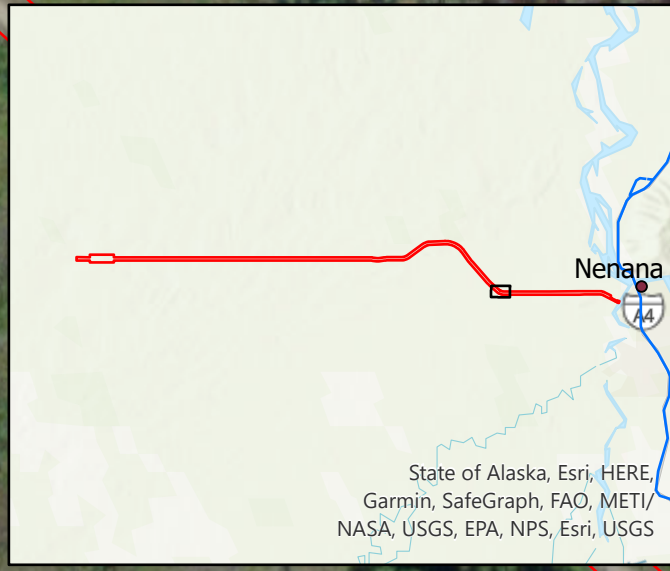
Date: July 2023

Figure 6

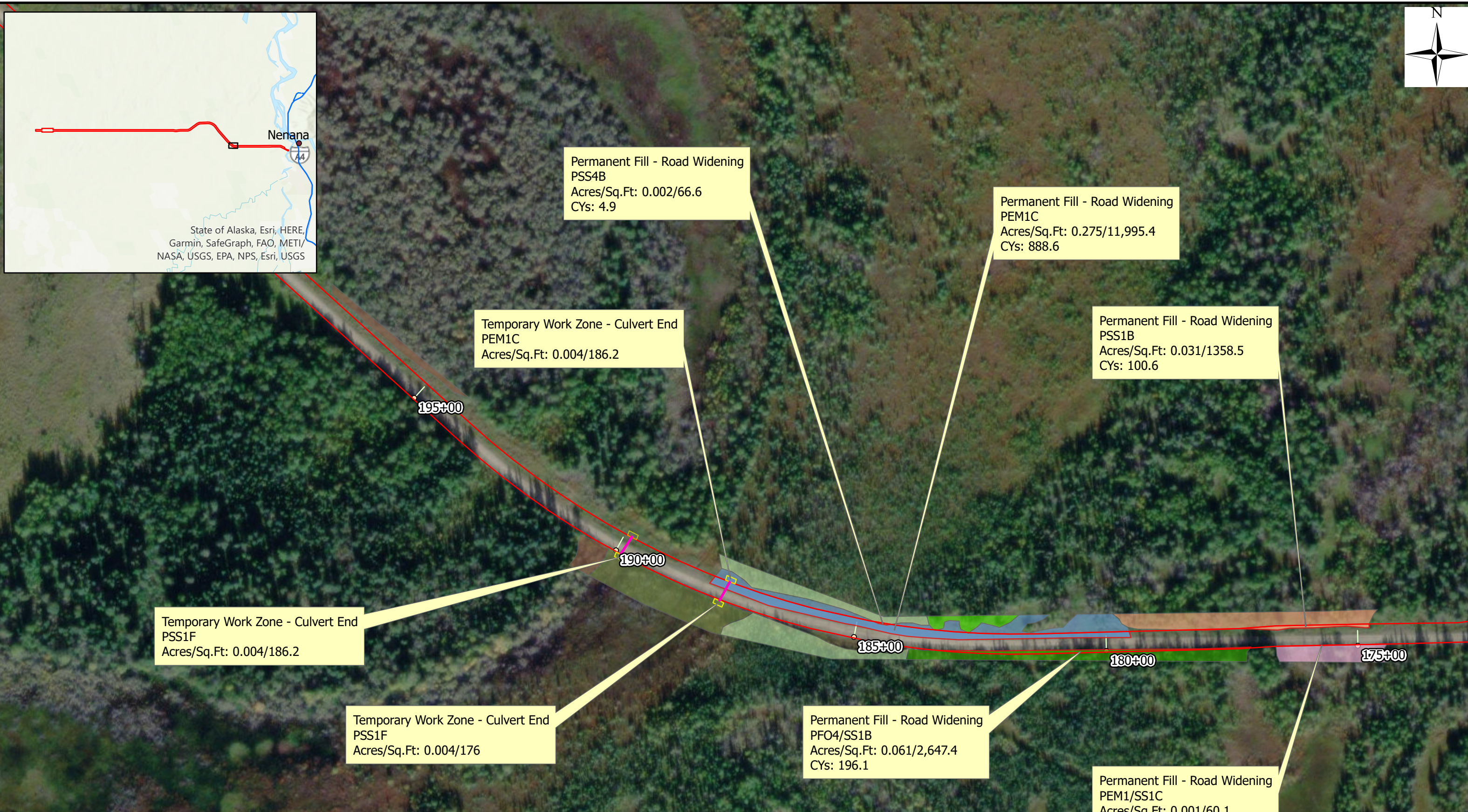
Nenana-Totchaket Road  
Nenana, AK

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Permanent Fill - Road Widening  
PSS4B  
Acres/Sq.Ft: 0.002/66.6  
CYs: 4.9

Permanent Fill - Road Widening  
PEM1C  
Acres/Sq.Ft: 0.275/11,995.4  
CYs: 888.6

Permanent Fill - Road Widening  
PSS1B  
Acres/Sq.Ft: 0.031/1358.5  
CYs: 100.6

Temporary Work Zone - Culvert End  
PEM1C  
Acres/Sq.Ft: 0.004/186.2

Temporary Work Zone - Culvert End  
PSS1F  
Acres/Sq.Ft: 0.004/186.2

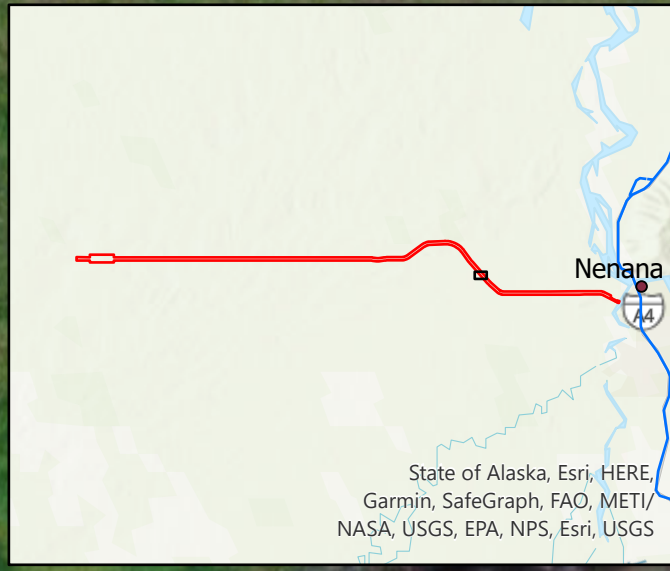
Temporary Work Zone - Culvert End  
PSS1F  
Acres/Sq.Ft: 0.004/176

Permanent Fill - Road Widening  
PFO4/SS1B  
Acres/Sq.Ft: 0.061/2,647.4  
CYs: 196.1

Permanent Fill - Road Widening  
PEM1/SS1C  
Acres/Sq.Ft: 0.001/60.1  
CYs: 4.4

**Legend**

Proposed Widened Road	Temporary Culvert Work Zone	<b>COWARDIN</b>	PEM1B	PSS1/EM1C	PUBH
Proposed New Culverts		PEM1/SS1B	PEM1C	PSS1B	R2UBH
		PEM1/SS1C	PFO4/SS1B	PSS1C	R3UBH
		PEM1/SS1F	PFO4B	PSS1F	
		PEM1A	PSS1/EM1B	PSS4B	



State of Alaska, Esri, HERE, Garmin, SafeGraph, FAO, METI/NASA, USGS, EPA, NPS, Esri, USGS

Permanent Fill - Road Widening PSS1C  
Acres/Sq.Ft: 0.006/257.1  
CYs: 19.1

Temporary Work Zone - Culvert End PSS1C  
Acres/Sq.Ft: 0.001/28.1

Temporary Work Zone - Culvert End PEM1/SS1F  
Acres/Sq.Ft: 0.004/158.1

Temporary Work Zone - Culvert End PEM1/SS1F  
Acres/Sq.Ft: 0.004/186.2

Permanent Fill - Road Widening PEM1/SS1F  
Acres/Sq.Ft: 0.059/2,585.9  
CYs: 191.5

Permanent Fill - Road Widening PSS1C  
Acres/Sq.Ft: 0.018/771.3  
CYs: 57.1

Permanent Fill - Road Widening PSS1C  
Acres/Sq.Ft: 0.006/248.2  
CYs: 18.4

Temporary Work Zone - Culvert End PEM1/SS1F  
Acres/Sq.Ft: 0.003/146.3

Temporary Work Zone - Culvert End PEM1/SS1F  
Acres/Sq.Ft: 0.003/143.8

Permanent Fill - Road Widening PEM1/SS1F  
Acres/Sq.Ft: 0.001/46.8  
CYs: 3.5

Permanent Fill - Road Widening PSS1C  
Acres/Sq.Ft: 0.008/338  
CYs: 25

Permanent Fill - Road Widening PSS1C  
Acres/Sq.Ft: 0.021/908  
CYs: 67.3

### Legend

- Proposed Widened Road
- Proposed New Culverts
- Temporary Culvert Work Zone

- #### COWARDIN
- PEM1/SS1B
  - PEM1/SS1C
  - PEM1/SS1F
  - PEM1A

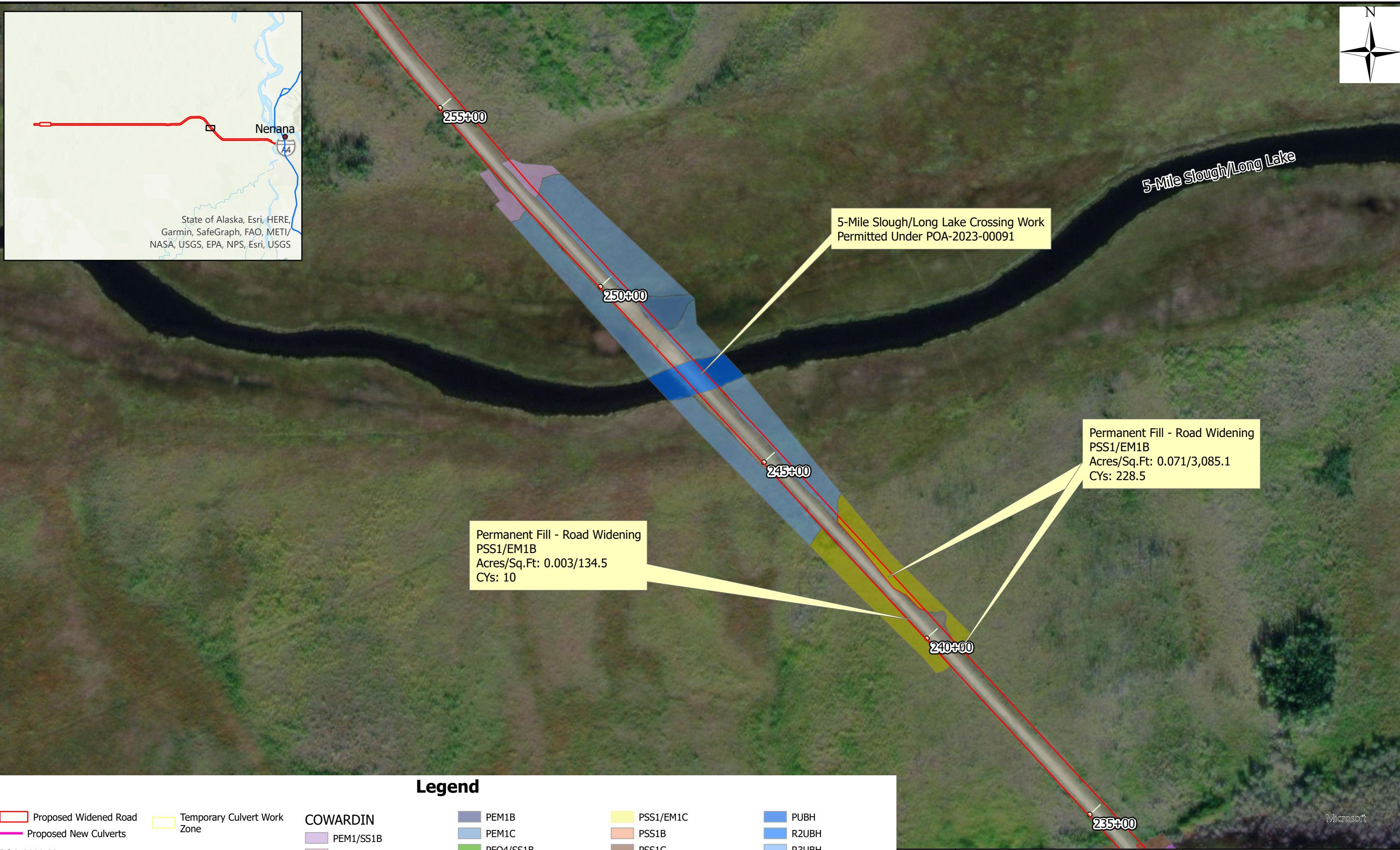
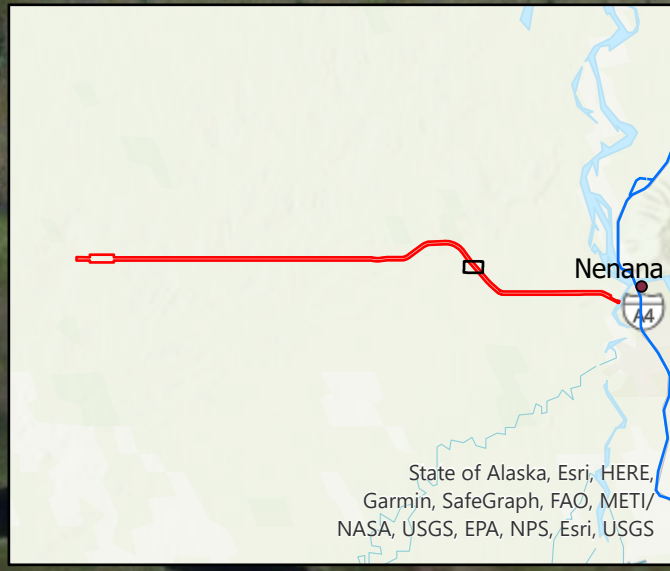
- PEM1B
- PEM1C
- PFO4/SS1B
- PFO4B
- PSS1/EM1B

- PSS1/EM1C
- PSS1B
- PSS1C
- PSS1F
- PSS4B

- PUBH
- R2UBH
- R3UBH



Microsoft



### Legend

- Proposed Widened Road
- Proposed New Culverts
- Temporary Culvert Work Zone

- COWARDIN**
- PEM1/SS1B
  - PEM1/SS1C
  - PEM1/SS1F
  - PEM1A

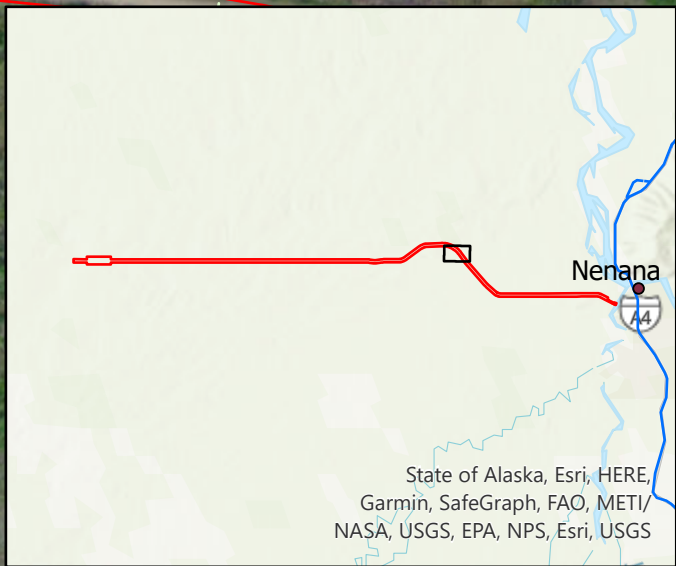
- PEM1B
- PEM1C
- PFO4/SS1B
- PFO4B
- PSS1/EM1B

- PSS1/EM1C
- PSS1B
- PSS1C
- PSS1F
- PSS4B

- PUBH
- R2UBH
- R3UBH



Microsoft



Permanent Fill - Road Widening  
PEM1C  
Acres/Sq.Ft: 0.138/6026.1  
CYs: 446.4

Temporary Work Zone - Culvert End  
PEM1C  
Acres/Sq.Ft: 0.003/142

Permanent Fill - Road Widening  
PSS1/EM1C  
Acres/Sq.Ft: 0.038/1665.7  
CYs: 123.4

Temporary Work Zone - Culvert End  
PSS1/EM1C  
Acres/Sq.Ft: 0.003/159.8

Permanent Fill - Road Widening  
PSS1/EM1C  
Acres/Sq.Ft: 0.025/1,098  
CYs: 81

Permanent Fill - Road Widening  
PSS1/EM1C  
Acres/Sq.Ft: 0.003/135.6  
CYs: 10

### Legend

Proposed Widened Road  
 Proposed New Culverts

Temporary Culvert Work Zone

**COWARDIN**  
 PEM1/SS1B  
 PEM1/SS1C  
 PEM1/SS1F  
 PEM1A

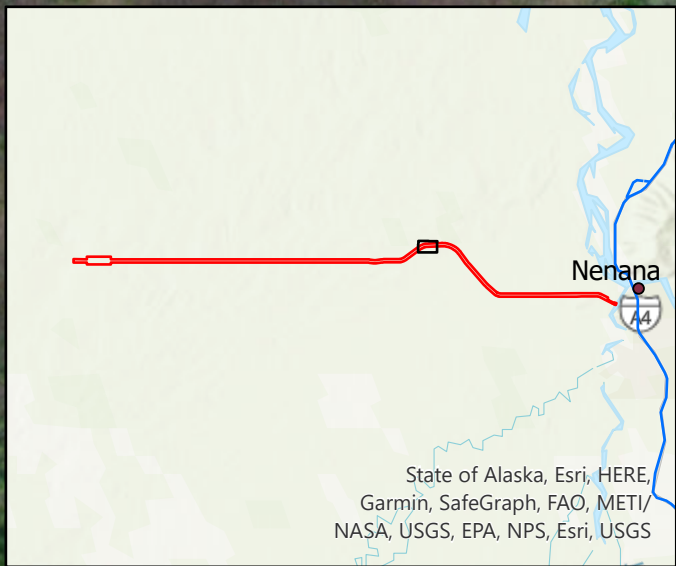
PEM1B  
 PEM1C  
 PFO4/SS1B  
 PFO4B  
 PSS1/EM1B

PSS1/EM1C  
 PSS1B  
 PSS1C  
 PSS1F  
 PSS4B

PUBH  
 R2UBH  
 R3UBH



Microsoft



Permanent Fill - Road Widening  
PSS1B  
Acres/Sq.Ft: 0.02/875.6  
CYs: 64.9

Permanent Fill - Road Widening  
PEM1/SS1C  
Acres/Sq.Ft: 0.036/1,556.3  
CYs: 115.3

Permanent Fill - Road Widening  
PSS1B  
Acres/Sq.Ft: 0.018/792.3  
CYs: 58.7

Permanent Fill - Road Widening  
PEM1/SS1C  
Acres/Sq.Ft: 0.011/489.7  
CYs: 36.3



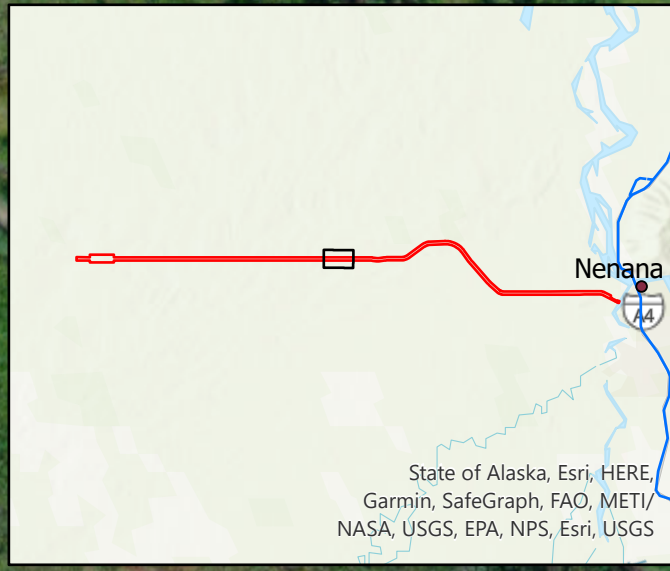
### Legend

Proposed Widened Road	Temporary Culvert Work Zone	<b>COWARDIN</b>	PEM1B	PSS1/EM1C	PUBH
Proposed New Culverts		PEM1/SS1B	PEM1C	PSS1B	R2UBH
		PEM1/SS1C	PFO4/SS1B	PSS1C	R3UBH
		PEM1/SS1F	PFO4B	PSS1F	
		PEM1A	PSS1/EM1B	PSS4B	

POA-2023-00555  
Nenana River, Little Nenana River, East Middle River, West Middle River, Wetlands  
November 2023  
Sheet 11 of 15

	STATE OF ALASKA Department of Transportation and Public Facilities 2301 Peger Road Fairbanks, AK 99709	Date: July 2023	Figure 11
	<b>Nenana-Totchaket Road Nenana, AK</b>		

Microsoft



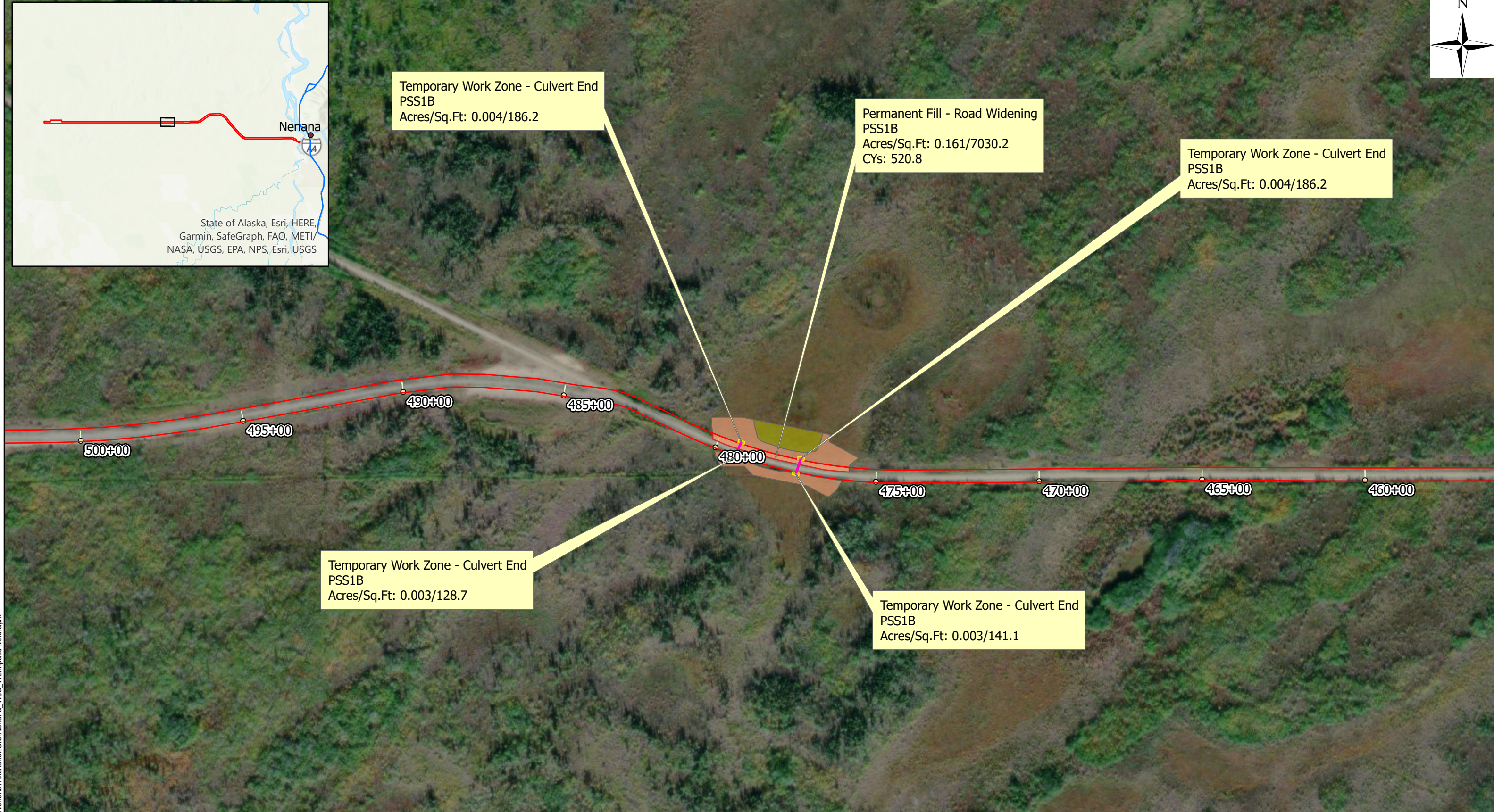
Temporary Work Zone - Culvert End  
PSS1B  
Acres/Sq.Ft: 0.004/186.2

Permanent Fill - Road Widening  
PSS1B  
Acres/Sq.Ft: 0.161/7030.2  
CYs: 520.8

Temporary Work Zone - Culvert End  
PSS1B  
Acres/Sq.Ft: 0.004/186.2

Temporary Work Zone - Culvert End  
PSS1B  
Acres/Sq.Ft: 0.003/128.7

Temporary Work Zone - Culvert End  
PSS1B  
Acres/Sq.Ft: 0.003/141.1

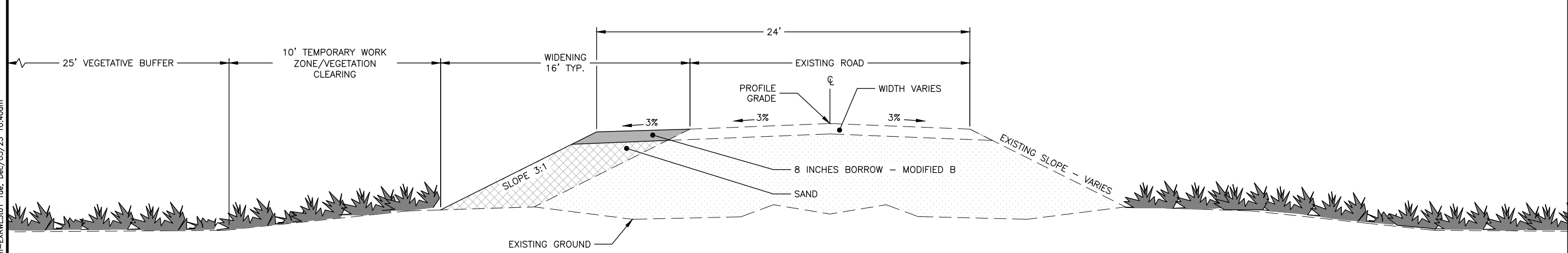


### Legend

Proposed Widened Road	Temporary Culvert Work Zone	<b>COWARDIN</b>	PEM1B	PSS1/EM1C	PUBH
Proposed New Culverts		PEM1/SS1B	PEM1C	PSS1B	R2UBH
		PEM1/SS1C	PFO4/SS1B	PSS1C	R3UBH
		PEM1/SS1F	PFO4B	PSS1F	
		PEM1A	PSS1/EM1B	PSS4B	

Microsoft

NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	----	####	----	####



**TYPICAL SECTION A**  
**WIDENING EXISTING ROAD (ONE SIDE)**

**NOTES:**

1. TRANSITION IN AND OUT OF EXISTING ROAD AS DIRECTED BY ENGINEER.
2. IF STANDING WATER OR EMERGENT WETLANDS ARE WITHIN THE 10' WORK AREA OR 25' VEGETATIVE BUFFER, CONTRACTOR SHALL INSTALL PERIMETER CONTROL BMPS.
3. TEMPORARY WORK ZONE EXTENDS 10' BEYOND TOW OF ROAD. THIS AREA WILL BE FOR EQUIPMENT ACCESS RELATED TO INSTALLATION OF NEW CROSS-DRAINAGE CULVERTS.
4. VEGETATIVE BUFFER EXTENDS OUTWARD 25' FROM THE TEMPORARY WORK ZONE. THIS AREA WILL SERVE AS A NATURAL VEGETATIVE SCREEN DURING CONSTRUCTION.

**Figure 13**

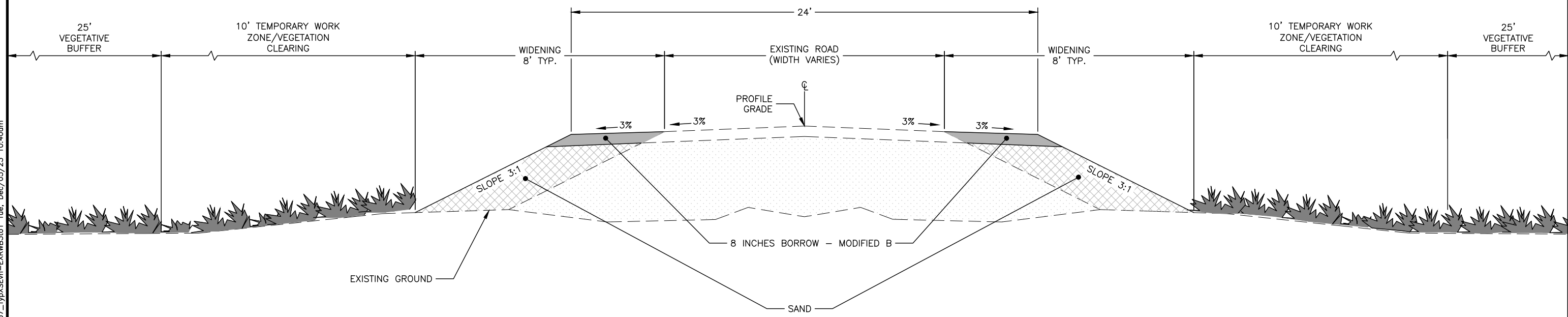


PLANS DEVELOPED BY: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, NORTHERN REGION, 2301 PEGER ROAD, FAIRBANKS, AK 99709 (907)451-2200  
H:\Projects\communities\Nenana\tchakat\Design\stage 1b\_road\_widening\NTP1\2\_CAD\NSHW\00657\_TypXSEvn-EXRW\_3to1\_Tue, Dec/05/23 10:40am



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	----	####	----	####

PLANS DEVELOPED BY: STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES, NORTHERN REGION, 2301 PEGER ROAD, FAIRBANKS, AK 99709 (907)451-2200  
 H:\Projects\communities\Nenana\tchakat\Design\stage 1b\_road\_widening\NIP1\2\_CAD\NSHWY00657\_TypXSEvn-EXRB3to1\_Tue, Dec/05/23 10:40am

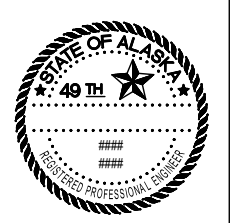


**TYPICAL SECTION B**  
**WIDENING EXISTING ROAD (BOTH SIDES)**

**NOTES:**

1. TRANSITION IN AND OUT OF EXISTING ROAD AS DIRECTED BY ENGINEER.
2. IF STANDING WATER OR EMERGENT WETLANDS ARE WITHIN THE 10' WORK AREA OR 25' VEGETATIVE BUFFER, CONTRACTOR SHALL INSTALL PERIMETER CONTROL BMPS.
3. TEMPORARY WORK ZONE EXTENDS 10' BEYOND TOW OF ROAD. THIS AREA WILL BE FOR EQUIPMENT ACCESS RELATED TO INSTALLATION OF NEW CROSS-DRAINAGE CULVERTS.
4. VEGETATIVE BUFFER EXTENDS OUTWARD 25' FROM THE TEMPORARY WORK ZONE. THIS AREA WILL SERVE AS A NATURAL VEGETATIVE SCREEN DURING CONSTRUCTION.

Figure 14



NO.	DATE	REVISION	STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			ALASKA	----	###	----	###

CULVERTS TABLE		
STATION	DIAMETER (IN)	LENGTH
11+40	24	55
21+20	24	75
21+51	24	85
80+33	24	45
80+58	24	45
85+92	24	90
113+34	24	90
137+27	24	45
148+49	24	55
171+20	24	55
187+75	24	45
189+75	24	45
232+50	24	45
233+50	24	45
282+89	24	40
477+52	24	65
479+50	24	40

**NOTE:**  
 DATA COLLECTED BY FIELD MAP ON SITE VISIT. CULVERT LOCATION IS APPROX. STATION ON THE ALIGNMENT AND MAY BE ADJUSTED TO FIELD FIELD CONDITIONS.

Figure 15

CULVERT SUMMARY

