

Chris Wrobel
Permitting Coordinator
ConocoPhillips Alaska, Inc.
P.O. Box 100360
Anchorage, AK 99510-0360

Phone: (907) 263-4691

Email: Chris.P.Wrobel@ConocoPhillips.com

January 16, 2018

DOG Permitting State of Alaska Department of Natural Resources 550 West 7th Avenue, Suite 1100 Anchorage, AK 99501-3563

Re:

Greater Kuparuk Road Improvements, DS-1A to MSC

Kuparuk River Unit

To whom this may concern:

ConocoPhillips Alaska, Inc. (CPAI) respectfully requests an amendment to LO/NS 81-183 in order to improve existing gravel roads between Drill Site 1A (DS-1A) and Mine Site C (MSC) within the Kuparuk River Unit (KRU). The purpose of the project is to bring existing main roads and drill site access roads up to current engineering standards for the safe and efficient movement of drilling rigs and to stabilize underlaying permafrost.

Additional details are provided in the attached project description, application form, and figures.

If you have any questions or need additional information, please contact me at (907) 263-4691, or at Chris.P.Wrobel@ConocoPhillips.com

Sincerely,

Chris Wrobel

Coordinator - Permitting

Attachments:

Project Description

Chi Waluf

ADNR DOG Unit Plan of Operations Amendment Forms

Figures



Greater Kuparuk Road Improvements

Project Description

Project Overview

ConocoPhillips Alaska, Inc. (CPAI) requests authorization to improve existing gravel roads within the Kuparuk River Resource Development District and Kuparuk River Unit (Kuparuk). The purpose of the project is to bring existing main roads and drill site access roads up to current engineering standards for the safe and efficient movement of drilling rigs and to stabilize underlaying permafrost. Currently, there are various road sections where the existing road height ranges from 1 foot to 4 feet above the ground surface. Areas along the existing roads lack sufficient bearing capacity and during past drilling rig moves, rigs have become stuck, impeding traffic and delaying activities. This project would increase the thickness of selected road sections to approximately 6.5 feet above the ground surface, and increase the width to 35 feet across the road surface. Thicker roads would have a wider and more stable surface that requires less maintenance, allows more efficient drilling rig movement, and provides safer driving conditions.

Location

The project is located along the Oliktok Road south of the Drill Site 3N (DS-3N) access road intersection, and east/west along the Spine Road between Central Processing Facility 1 (CPF-1) and DS-2M. The project area also includes the drill site (DS) access roads for DS-3N, DS-2G, and between DS-3M and DS-3I. The project is located within the meridian, townships, ranges, and sections listed below in Table 1.

Table 1. Project location by meridian, township, range, and section.

Meridian, Township, & Range	Section
U11N 8E	23, 24, 26, 27
U11N 9E	1, 11, 12, 14, 15, 16, 19, 20, 21, 29, 32
U11N 10E	5, 6, 8, 9
U12N 9E	2, 3, 10, 11, 15, 22, 23, 25, 26, 36
U13N 8E	25, 36
U13N 9E	28, 33

Project Area

Approximately 26 miles of roads would be improved. The new road surface will be 35 feet wide for both main roads and drill site access roads. The following dimensions and quantities are conservative estimates based on preliminary information and may be reduced during final design. The new toe-to-toe width will vary from 61 to 81 feet depending on terrain. Road sections will be widened by one foot to 20 feet per side, resulting in approximately 48 acres of new road footprint. Approximately 293,000 cubic yards of gravel would be placed in the new footprint. Additional gravel would be placed on top of the existing road prism for a total gravel volume of 1,300,000 cubic yards. In a single year, up to six miles of road may be improved with up to 300,000 cubic yards of gravel placed in up to 15 acres of new road footprint. Table 2 lists each road segment planned for improvement, along with the associated ADNR LONS, road length, gravel requirements, and acreage of the new footprint (outside of the existing footprint toe). See also the attached Figures.

Table 2. Road Segments Planned for Improvements

Road Segment	LONS	Road Type	Road Area	Length (Miles)	Gravel Required (CY)	New Acres
CPF-2 to DS-2B	81-172	Main	CPF2	1.65	62,731	3.55
DS-3K to DS-1Y	81-179	Main	CPF3	7.46	311,297	13.08
MSD to CPF-2	81-180	Main	CPF2	6.45	257,646	11.81
DS-1A to MSC	81-183	Main	CPF1	1.21	47,175	1.75
DS-2G	82-180	Access	CPF2	1.75	96,723	4.35
DS-2B to DS-2A	83-002	Main	CPF2	1.72	73,718	1.63
DS-2A to DS-2M	84-132	Main	CPF2	2.80	120,006	2.65
DS-3N	84-137	Access	CPF3	1.30	70,326	2.60
DS-3M to DS-3I	84-138	Access	CPF3	1.84	107,050	3.57

Construction Schedule

Construction is planned from 2018 through 2022 and includes the road types shown on the attached Figures and in Table 2 above. There are no new roads or road extensions planned with this project. Specific road sections will be scheduled year-by-year depending on future drilling objectives. Impacts to migratory birds would be substantially minimized by placing the first lift of gravel on the tundra in April before the migratory bird nesting window begins.

Gravel Source

Gravel will be sourced from Mine Sites E and C, and potentially F. The project will utilize the nearest available gravel source to reduce driving distances and vehicle traffic.

Culverts

Some existing 24-inch surface flow culverts will be replaced as necessary with smooth wall steel pipe. There are no culverts in fish bearing streams planned for replacement.

Waters of the U.S.

The expanded footprint is assumed to be Waters of the U.S., primarily wetlands and occasional fill in waterbodies where waterbodies are already adjacent to the existing road prism. Habitat descriptions of the wetlands and waterbodies are provided in the attached letter report from Weston Solutions, Inc. Areas where waterbodies may receive fill are provided in the attached figures from Lounsbury and Associates, Inc. During pre-application meetings with the U.S. Army Corps of Engineers, U.S. Environmental Protection Agency, and U.S. Fish and Wildlife, a wetland delineation and functional assessment (i.e. aquatic site assessment) were determined by the agencies to be unnecessary due to the project's very narrow impact area, its purpose (maintenance), and the presence of existing disturbance along the road edges.

Threatened and Endangered Species

Both the spectacled eider and the polar bear are listed under the Endangered Species Act and may be found within the project area. Additionally, the project is located within Unit 2, terrestrial denning habitat, of the designated polar bear critical habitat. Both species are covered under the Programmatic Biological Opinion for the 2016-2017 Wetland Impacts of the North Slope. Project construction may occur year-round. Impacts to nesting spectacled eiders would be avoided by placing gravel on the tundra outside of the migratory bird nesting season. The project footprint lacks the topographic relief that would accumulate enough snow to support polar bear denning. Potential effects to transient (non-denning) polar bears that may enter the project area will be minimized through CPAI's compliance with existing and future authorizations under the Marine Mammal Protection Act (MMPA) Letters of Authorization (LOA).

Cultural Resources

A Cultural Resources survey was conducted for the project. No cultural or historic resources were found near the project area. Results of the survey are summarized in a letter report by Reanier and Associates submitted separately to the U.S. Army Corps of Engineers and the State Historic Preservation Office.

Construction Equipment

Typical construction equipment may include graders, front-end loaders, dump trucks, and excavators. Fuel would be provided by a refueling service truck. Work will be conducted from existing roads.

Other Permits and Authorizations

- North Slope Borough Development Permit
- Alaska Department of Fish and Game Fish Habitat Permit
- U.S. Fish and Wildlife Service, Section 7 Consultation
- Alaska State Historic Preservation Officer Section 106 Review
- Alaska Department of Natural Resources Division of Oil and Gas Unit Amendment
- Alaska Department of Environmental Conservation, Section 401 Water Quality Certification
- Various Pipeline Right of Way (ROW), Letters of Non-Objection



UNIT PLAN OF OPERATIONS AMENDMENT APPLICATION

State of Alaska

Department of Natural Resources, Division of Oil & Gas 550 W. 7th Ave, Suite 1100, Anchorage, AK 99501-3563

Phone: 907-269-8800 Fax: 907-269-8943 Permitting Email: dog.permitting@alaska.gov



SECTION I: APPLICANT INFORMATION			
1. Applicant: 2. Applicant Contact:			
Name: ConocoPhillips Alaska, Inc. (CPAI)	First Chris Last Wrobel Name: Name: Title: Permitting Coordinator		
Mailing Address: P.O. Box 100360	Mailing Address: P.O. Box 100360		
City: Anchorage	City: Anchorage		
State: AK Zip Code: 99510-0360	State: AK Zip Code: 99510-0360		
Phone: 907-263-4691 Fax: n/a	Phone: 907-263-4691 Fax: n/a		
Email: Chris.P.Wrobel@ConocoPhillips.com	Email: Chris.P.Wrobel@ConocoPhillips.com		
3. Unit Name Kuparuk River Unit			
4. Unit Operator Contact:			
First Name: Wendy Last Name: Mahan	Title: Field Environmental Coordinator		
Mailing P.O. Box 100360 Address:			
City: Prudhoe Bay State: AK	Zip Code: 99734		
Phone: 907-659-7212 Fax: 907-659-7254	Email: N1438@conocophillips.com		
Describe the relationship between the Unit Operator and the Applica	nt:		
CPAI is the unit operator			
SECTION II: 3RD PARTY INFORMATION	SECTION III: APPLICATION DATE AND NUMBER		
(Fill out this section only if you are applying for the Applicant)			
3rd Party Company N/A Name:	Application Date (Office Use Only):		
First N/A Last N/A Name:			
Title: N/A			
Mailing N/A Address:			
City: N/A			
State: N/A Zip Code: N/A			
Phone: N/A Fax: N/A			
Email: N/A			
Describe the affiliation to the Applicant: N/A	Application Number: LO/NS 81-183		

SECTION IV: PROJECT INFORMATION

KRU Road Improvement Project DS-1A to Mine Site C

4/15/2018

1. Project Name:

2. Proposed Start Date:

3. Project Descr	iption:					
Is activity discussed in the approved Plan of Development on file with the Division's Units Section? ☐ Yes ☐ No						
Describe what and where:						
ConocoPhillips Alaska, Inc. (CPAI) requests authorization to improve existing gravel roads within the Kuparuk River Resource Development District and Kuparuk River Unit (Kuparuk). The purpose of the project is to bring existing main roads and drill site access roads up to current engineering standards for the safe and efficient movement of drilling rigs and to stabilize underlaying permafrost. Please see the attachments for additional details.						
		SECTION V: LAND STATUS				
1. State Mineral	Estate:					
Are supplementa	I pages for land status ind	luded in Appendix C?	\boxtimes	Yes	□ No	
Affected ADL:	ffected ADL: 025647 Date Effective: 3/1/1965 Date Assigned: Unknown					
Oil And Gas Less	see(s): CPAI					
Surface Ownersh	ip: State of Alaska					
Do you have, or a	anticipate having an Acce	ss Agreement: ⊠ Yes □	No			
Special Use Land	ls: None identified					
Jointly Managed	Lands: None identified					
Other Considerat	ions: None					
Project (Components	Meridian, Township, Range, And Sec	ction(s)	GF	PS Coordinates	
Add gravel to increa	ase width and height of	Jmiat, T11N, R10E, Sections 5, 8		N/A Linear		
2. State of Alask	ka Surface Lands:					
Are supplementa	I pages for land status inc	luded in Appendix C?		Yes	⊠ No	
Oil And Gas Mine	eral Estate Owner: N/A					
Access Authoriza	tion(s): N/A					
Special Use Land	ds: N/A					
Jointly Managed	Lands: N/A					
Other Considerat	ions: N/A					
Proje	ct Components	Meridian, Township, Range, And	Section(s)	G	SPS Coordinates	
N/A		N/A		N/A		
3. Private Land	s:					
Are supplementa	I pages for land status inc	luded in Appendix C?] Yes	⊠ No	
Oil And Gas Mine	eral Estate Owner: N/A	· ·				
Surface Ownersh	ip And Access Agreemer	t(s): N/A				
Special Use Land	ls: N/A					
Jointly Managed	Lands: N/A					
Other Considerat	ions: N/A					
Proj e	Project Components Meridian, Township, Range, And Section(s) GPS Coordinates				PS Coordinates	
N/A	N/A N/A N/A					
N/A		N/A		N/A		
N/A		N/A		N/A		
	S	ECTION VI: SEQUENCE AND SCHEDULE C	F OPERATIONS	S		
Project Milestone #		Project Milestone	Proposed S	Start Date	Proposed End Date	
1.	Addition of gravel		4/15/2	018	12/31/2022	
2.	N/A N/A		4	N/A		

3.	N/A	N/A	N/A
4.	N/A	N/A	N/A
5.	N/A	N/A	N/A
6.	N/A	N/A	N/A
7.	N/A	N/A	N/A
8.	N/A	N/A	N/A
9.	N/A	N/A	N/A

SECTION VII: PROJECTED USE REQUIREMENTS

1. Describe the proposed operations, including the location and design, of Well Sites:

N/A

2. Describe the proposed operations, including the location and design, of Buildings:

N/A

3. Describe the proposed operations, including the location and design, of Fuel and Hazardous Substances:

N/A

4. Describe the proposed operations, including the location and design, of Solid Waste Sites:

N/A

5. Describe the proposed operations, including the location and design, of Water Supplies:

N/A

6. Describe the proposed operations, including the location and design, of Utilities:

N/A

7. Describe the proposed operations, including the location and design, of Material Sites:

N/A

8. Describe the proposed operations, including the location and design, of Roads:

This project would increase the thickness of selected road sections to approximately 6.5 feet above the ground surface, and increase the width to 35 feet across the road surface. Thicker roads would have a wider and more stable surface that requires less maintenance, allows more efficient drilling rig movement, and provides safer driving conditions. Please see the attachments for additional details.

9. Describe the proposed operations, including the location and design, of Airstrips:

N/A

10. Describe the proposed operations, including the location and design, of All Other Facilities and Equipment:

N/A

11. If another permit(s) is required for the above described Projected Use Requirements, provide the following information:

Agency	Permit Type	Permit Number	Application Status	Projected Use Requirement(s)
North Slope Borough	Conditional Development Permit	TBD	Draft	8
North Slope Borough	TLUI	N/A	Submitted	8
ADF&G	Fish Habitat Permit	TBD	Submitted	8
USACE	Section 404 Individual Permit	N/A	Submitted	8
USFWS	Section 7 Consultation	N/A	Approved	8
ADNR	DOG Unit PoO Amendment	TBD	Submitted	8

ADNR	SHPO Concurrence	N/A	Approved	8
Various	Letters of Non-Objection	N/A	Draft	8
		SECTION VIII: REHAB	ILITATION PLAN	
1. Proposed Lev	vel of Infrastructure, Facilities and	Equipment Removal:		
N/A				
2. Description o	f Restoration and Rehabilitation A	ctivities for Vegetation, Ha	abitat, Impacted Wildlife, and Ot	her Applicable Resources:
The amended ap	pplication does not change the rel	nabilitation plans outlined	in the original authorization. Upo	on abandonment.
	SECTION IX: OPERAT	ING PROCEDURES DES	IGNED TO MINIMIZE ADVERS	E EFFECTS
Describe operati adjacent areas i		ent or minimize adverse e	ffects on other natural resource	s and other uses of the Unit area and
Fish and Wildlife	e Habitats: CPAI has a Wildlife A	voidance Interaction Plan de	signed to prevent or minimize adve	rse effects on other natural resources.
Historic and Arcl		t believe this would have any gical and cultural clearance.		the area has been previously cleared
Public Use Area	s: This area is not open to the put	olic.		
Other Uses:	N/A			
		SECTION X: GLOSS	ARY OF TERMS	
Term #	Term		Term Definition	
1.	N/A	Not Applicable		
2.	TBD	To Be Determined		
3.	CPAI	ConocoPhillips Alaska, Inc.		
4.	DS	Drill Site		
5.	TLUI	Traditional Land Use Invent	ory	
6.	SHPO	State Historic Preservation	Office	
		SECTION XI: CONF	FIDENTIALITY	
The undersigned	d hereby requests that each page	section of this application	marked confidential be held con	nfidential under AS 38.05.035(a)(8).
APPLICANT CO	NTACT:			
0: 1				
Signature	Name		Title	Date

ENIDIX	

See attached.

APPENDIX B: MITIGATION MEASURES

Not Applicable

APPF	MUIN	$C \cdot C$	TH	FD
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Not Applicable

LAND STATUS: SUPPLEMENTAL SECTION						
1. State Mineral Estate:						
Affected ADL: 025648	Date Effective: 3/1/1965	Pate Assigned: Enter Date.				
Oil And Gas Lessee(s): CPAI						
Surface Ownership: State of Alaska						
Do you have, or anticipate having	an Access Agreement: ⊠ Yes □	l No				
Special Use Lands: Click here to	enter text.					
Jointly Managed Lands: Click h	ere to enter text.					
Other Considerations: Click here	to enter text.					
Project Components	Meridian, Township, Range, And Section(s)	GPS Coordinates				
Add gravel to increase width and height of existing roadway	Umiat, T11N, R10E, Section 9	N/A Linear				
Click here to enter text.	Click here to enter text.	Click here to enter text.				
Click here to enter text.	Click here to enter text.	Click here to enter text.				
Affected ADL: Enter ADL.	Date Effective: Enter Date.	Date Assigned: Enter Date.				
Oil And Gas Lessee(s): Click he	ere to enter text.					
Surface Ownership: Click here to	enter text.					
Do you have, or anticipate having	an Access Agreement:	□ No				
Special Use Lands: Click here to	enter text.					
Jointly Managed Lands: Click he	ere to enter text.					
Other Considerations: Click here	to enter text.					
Project Components	Meridian, Township, Range, And Section(s)	GPS Coordinates				
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Click here to enter text.	Click here to enter text.	Click here to enter text.				
Affected ADL: Enter ADL.	Date Effective: Enter Date.	Date Assigned: Enter Date.				
Oil And Gas Lessee(s): Click he	ere to enter text.					
Surface Ownership: Click here to	enter text.					
Do you have, or anticipate having	an Access Agreement: ☐ Yes ☐	□ No				
Special Use Lands: Click here to enter text.						
Jointly Managed Lands: Click here to enter text.						
Other Considerations: Click here to enter text.						
Project Components	Meridian, Township, Range, And Section(s	GPS Coordinates				
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Affected ADL: Enter ADL.	Date Effective: Enter Date.	Date Assigned: Enter Date.				

Land Status: Supplemental Section V1.0 Revised 06/01/2015

Oil And Gas Lessee(s): Click here to enter text.						
Surface Ownership: Click here to enter text.						
Do you have, or anticipate having an A	Do you have, or anticipate having an Access Agreement: ☐ Yes ☐ No					
Special Use Lands: Click here to ente	r text.					
Jointly Managed Lands: Click here to	enter text.					
Other Considerations: Click here to en	Other Considerations: Click here to enter text.					
Project Components	Meridian, Township, Range, And Section(s)	GPS Coordinates				
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Surface Ownership: Click here to ente	r text.					
Do you have, or anticipate having an A	ccess Agreement: Yes	□ No				
Special Use Lands: Click here to er	nter text.					
Jointly Managed Lands: Click here to	enter text.					
Other Considerations: Click here to en	iter text.					
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Land Status: Supplemental Section V1.0 Revised 06/01/2015

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Oil And Gas Mineral Estate Owner: Click here to enter text.

Access Authorization(s): Click here to enter text.

Special Use Lands: Click here to enter text.

Jointly Managed Lands: Click here to enter text.

Other Considerations: Click here to enter text.

Project Components	Meridian, Township, Range, And Section(s)	GPS Coordinates
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Oil And Gas Mineral Estate Owner: Click here to enter text.

Access Authorization(s): Click here to enter text.

Special Use Lands: Click here to enter text.

Jointly Managed Lands: Click here to enter text.

Other Considerations: Click here to enter text.

Project Components	Meridian, Township, Range, And Section(s)	GPS Coordinates
Click here to enter text.	Click here to enter text.	Click here to enter text.
Click here to enter text.	Click here to enter text.	Click here to enter text.
Click here to enter text.	Click here to enter text.	Click here to enter text.

3. Private Lands:

Oil And Gas Mineral Estate Owner: Click here to enter text.

Surface Ownership And Access Agreement(s): Click here to enter text.

Special Use Lands: Click here to enter text.

Jointly Managed Lands: Click here to enter text.

Other Considerations: Click here to enter text.

Project Components	Meridian, Township, Range, And Section(s)	GPS Coordinates
Click here to enter text.	Click here to enter text.	Click here to enter text.
Click here to enter text.	Click here to enter text.	Click here to enter text.
Click here to enter text.	Click here to enter text.	Click here to enter text.

Oil And Gas Mineral Estate Owner: Click here to enter text.

Surface Ownership And Access Agreement(s): Click here to enter text.

Special Use Lands: Click here to enter text.

Jointly Managed Lands: Click here to enter text.

Other Considerations: Click here to enter text.

Project Components	Meridian, Township, Range, And Section(s)	GPS Coordinates
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Land Status: Supplemental Section V1.0

Revised 06/01/2015

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Click here to enter text.	Click here to enter text.	Click here to enter text.
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Oil And Gas Mineral Estate Owner: Click here to enter text.

Surface Ownership And Access Agreement(s): Click here to enter text.

Special Use Lands: Click here to enter text.

Jointly Managed Lands: Click here to enter text.

Other Considerations: Click here to enter text.

Project Components	Meridian, Township, Range, And Section(s)	GPS Coordinates
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Click here to enter text.	Click here to enter text.	Click here to enter text.

Oil And Gas Mineral Estate Owner: Click here to enter text.

Surface Ownership And Access Agreement(s): Click here to enter text.

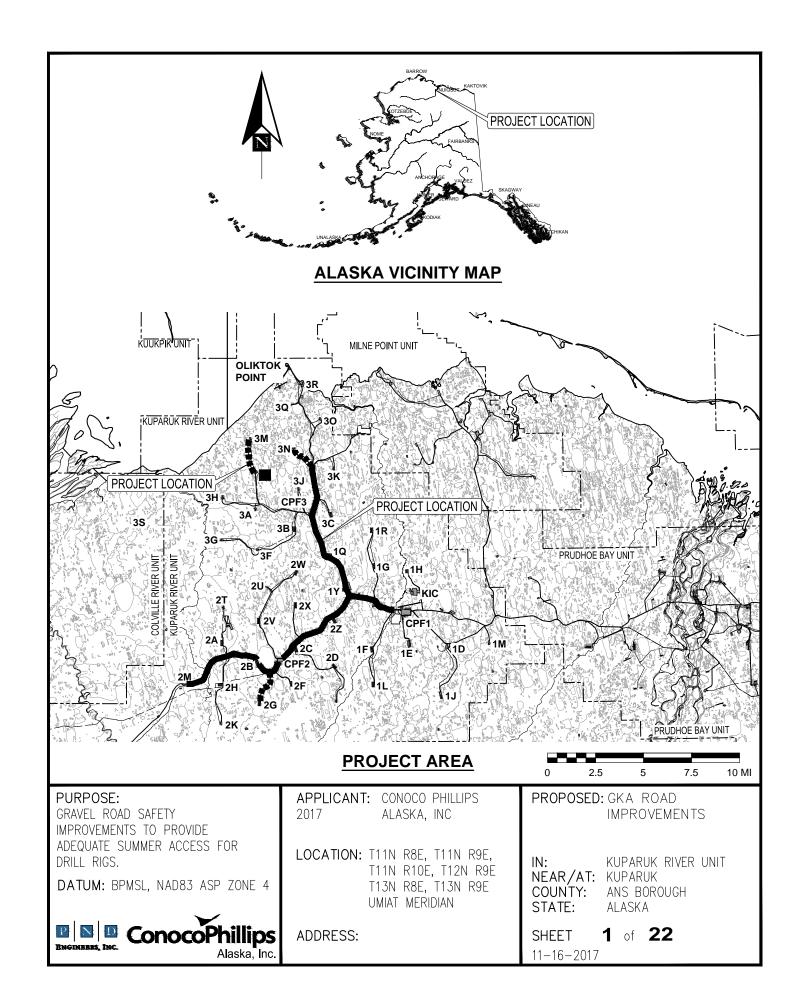
Special Use Lands: Click here to enter text.

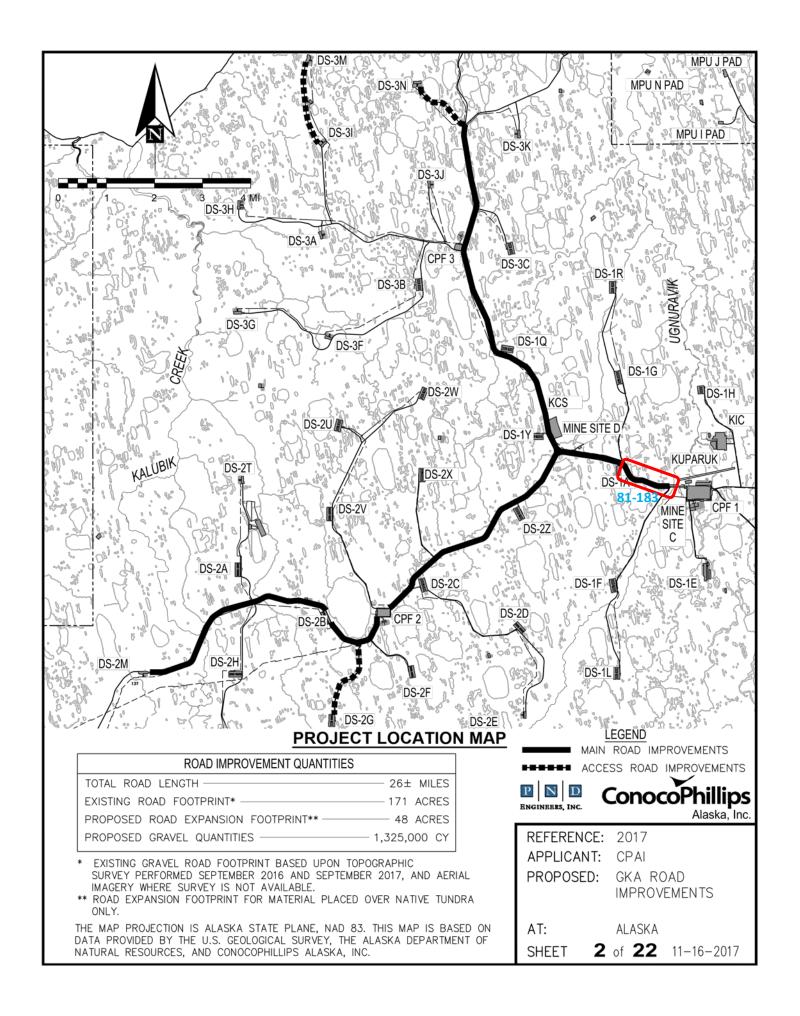
Jointly Managed Lands: Click here to enter text.

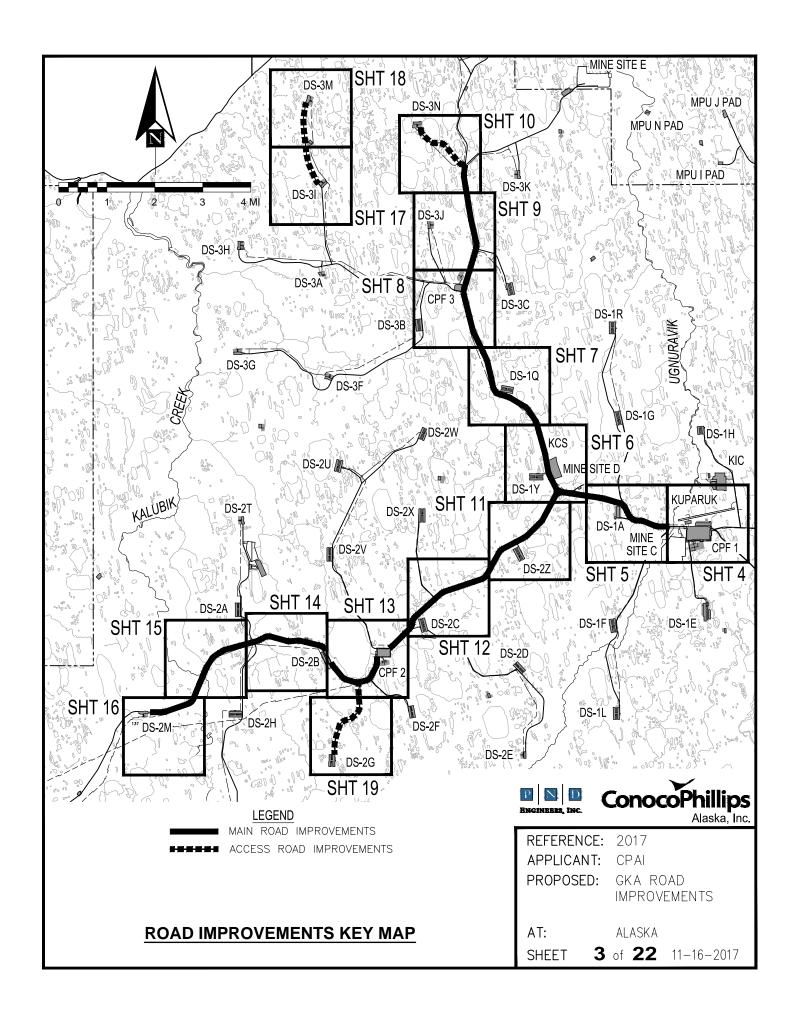
Other Considerations: Click here to enter text.

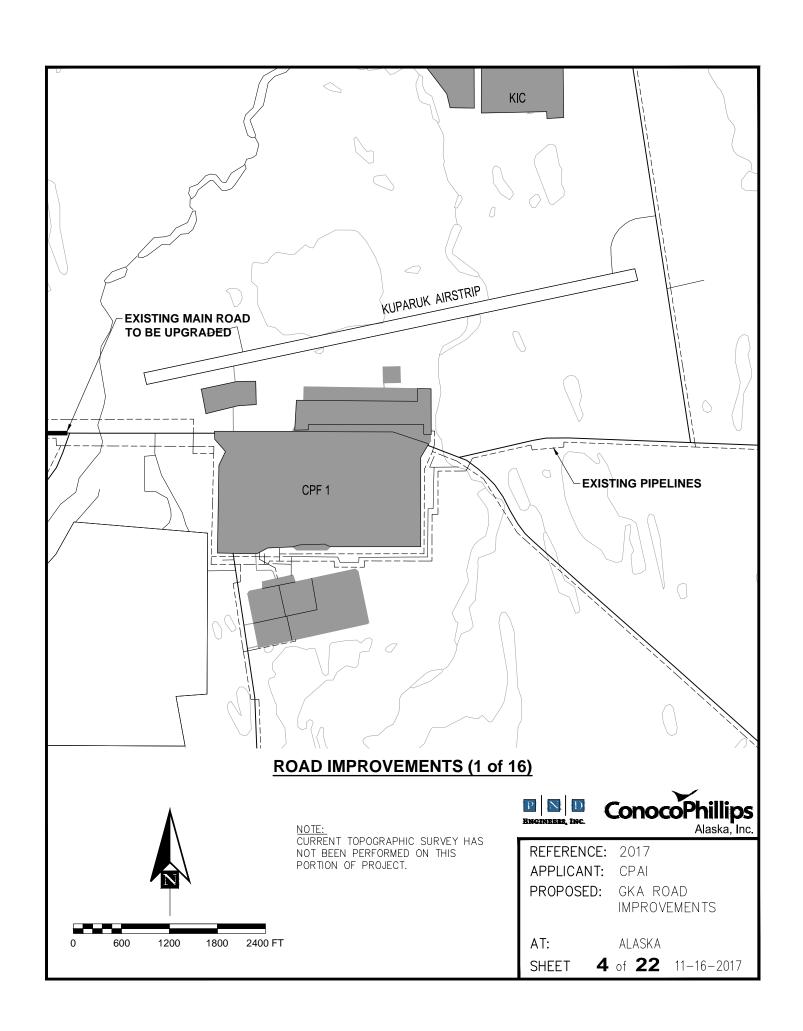
Project Components	Meridian, Township, Range, And Section(s)	GPS Coordinates
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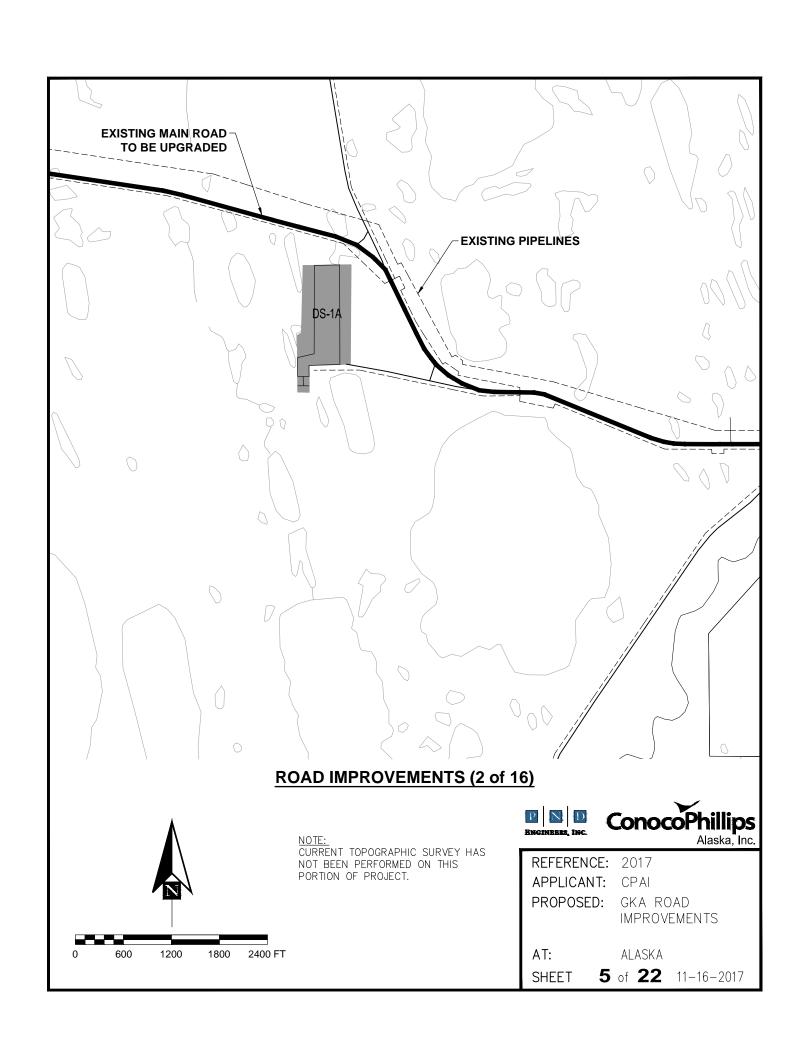
Land Status: Supplemental Section V1.0 Revised 06/01/2015

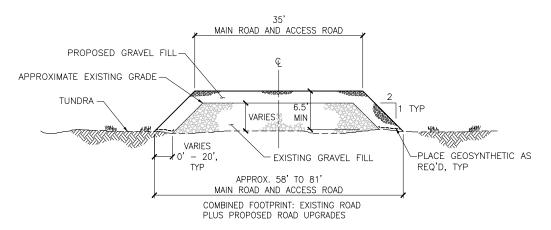












TYPICAL MAIN ROADWAY AND ACCESS ROADWAY **IMPROVEMENT SECTION**

NOT TO SCALE

- COMBINED ROAD FOOTPRINTS SHOWN ABOVE ARE APPROXIMATIONS BASED UPON TYPICAL ROAD PRISMS. ACTUAL FOOTPRINTS WILL VARY BASED UPON LOCAL TUNDRA FEATURES AND TOPOGRAPHY. ROAD WIDTHS MAY BE WIDER THAN DIMENSIONS INDICATED IN ISOLATED AREAS WHERE NATURAL TERRAIN DEPRESSIONS OCCUR, OR WHERE INFRASTRUCTURE REQUIRES A TALLER ROAD PRISM (e.g. STREAM AND PIPELINE CROSSINGS).
- 2. GRAVEL EXPANSION FOOTPRINT MAY OCCUR ON BOTH SIDES OF ROADWAY, AND IN SOME INSTANCES, ONLY ON ONE SIDE OF ROADWAY.

 3. GEOSYNTHETIC FABRIC MAY BE INSTALLED PRIOR TO GRAVEL PLACEMENT IN ROAD
- FOOTPRINT EXPANSION AREAS, AS DEEMED NECESSARY.



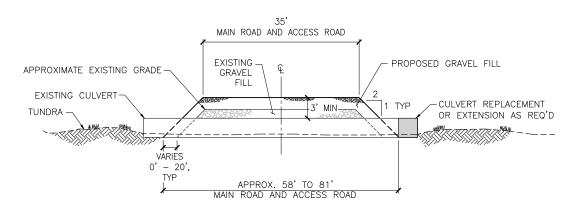
REFERENCE: 2017 APPLICANT: CPAI

PROPOSED: GKA ROAD

IMPROVEMENTS

AT: ALASKA

SHEET **20** of **22** 11-16-2017



TYPICAL CULVERT CROSSING SECTION

NOT TO SCALE

NOTES:

- 1. CULVERTS SHALL BE REPLACED BY A CULVERT OF SIMILAR DIAMETER, OR EXTENDED AS NECESSARY.

 2. CULVERT EXTENSIONS MAY BE REQUIRED ON ONE OR BOTH SIDES OF ROAD.

 3. CULVERTS AT KNOWN FISH BEARING STREAMS SHALL NOT BE MODIFIED.

 4. UP TO 200 CULVERTS MAY BE REPLACED OR EXTENDED ALONG THE PROJECT LENGTH.

- CULVERTS MAY BE REPLACED OR EXTENDED UP TO A TOTAL LENGTH OF 120 FT.



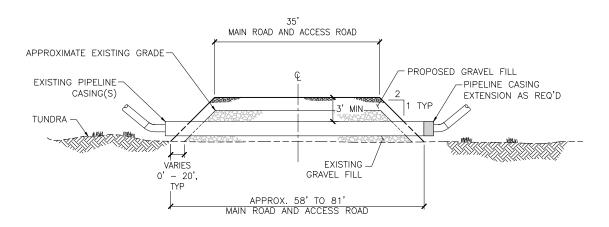
REFERENCE: 2017 APPLICANT: CPAI

PROPOSED: GKA ROAD

IMPROVEMENTS

AT: ALASKA

SHEET **21** of **22** 11-16-2017



TYPICAL PIPELINE CROSSING SECTION

NOT TO SCALE

- 1. PIPELINE CASINGS SHALL BE EXTENDED AS NECESSARY, AND MAY BE REQUIRED ON ONE OR BOTH SIDES OF ROAD.

 2. UP TO 190 PIPELINE CASINGS MAY BE EXTENDED ALONG THE PROJECT LENGTH.
- 3. PIPELINE CASINGS MAY BE EXTENDED UP TO A TOTAL LENGTH OF 185 FT.



REFERENCE: 2017 APPLICANT: CPAI

PROPOSED: GKA ROAD

IMPROVEMENTS

ALASKA AT:

SHEET **22** of **22** 11-16-2017