



Chris Wrobel  
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ConocoPhillips Alaska, Inc.  
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January 16, 2018

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

Re: Greater Kuparuk Road Improvements, MSD to CPF-2  
Kuparuk River Unit

To whom this may concern:

ConocoPhillips Alaska, Inc. (CPAI) respectfully requests an amendment to LO/NS 81-180 in order to improve existing gravel roads between Mine Site D (MSD) and Central Processing Facility No. 2 (CPF-2) 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](mailto:Chris.P.Wrobel@ConocoPhillips.com)

Sincerely,

A handwritten signature in black ink that reads "Chris Wrobel". The signature is written in a cursive, flowing style.

Chris Wrobel  
Coordinator - Permitting

Attachments:

Project Description  
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 underlying 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](mailto:dog.permitting@alaska.gov)



| SECTION I: APPLICANT INFORMATION   |   |
|--|---|
| <b>1. Applicant:</b>   | <b>2. Applicant Contact:</b>                      |
| Name: ConocoPhillips Alaska, Inc. (CPAI)   | First Name: Jessika Last Name: Gonzalez           |
| Mailing Address: P.O. Box 100360   | Title: Permitting Coordinator                     |
| City: Anchorage  | Mailing Address: P.O. Box 100360                  |
| State: AK Zip Code: 99510-0360   | City: Anchorage                                   |
| Phone: 907-265-6213 Fax: n/a   | State: AK Zip Code: 99510-0360                    |
| Email: Jessika.L.Gonzalez@ConocoPhillips.com   | Phone: 907-265-6213 Fax: n/a                      |
| Email: Jessika.L.Gonzalez@ConocoPhillips.com   |   |
| <b>3. Unit Name</b> Kuparuk River Unit   |   |
| <b>4. Unit Operator Contact:</b>   |   |
| First Name: Wendy Last Name: Mahan Title: Field Environmental Coordinator                                      |   |
| Mailing Address: P.O. Box 100360   |   |
| 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 Applicant:<br>CPAI is the unit operator            |   |
| <b>SECTION II: 3RD PARTY INFORMATION</b><br>(Fill out this section only if you are applying for the Applicant) | <b>SECTION III: APPLICATION DATE AND NUMBER</b>   |
| 3rd Party Company Name: N/A  | Application Date (Office Use Only):               |
| First Name: N/A Last Name: N/A   |   |
| Title: N/A   |   |
| Mailing Address: N/A   |   |
| 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:<br>N/A  | Application Number: LO/NS 81-180                  |
| <b>SECTION IV: PROJECT INFORMATION</b>   |   |
| <b>1. Project Name:</b>  | KRU Road Improvement Project Mine Site D to CPF-2 |
| <b>2. Proposed Start Date:</b>   | 4/15/2018   |

|  |                          |  |                          |
|--|--------------------------|--|--------------------------|
| <b>3. Project Description:</b>   |                          |  |                          |
| Is activity discussed in the approved Plan of Development on file with the Division's Units Section? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No   |                          |  |                          |
| Describe what and where:<br>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 underlying permafrost. Please see the attachments for additional details. |                          |  |                          |
| <b>SECTION V: LAND STATUS</b>  |                          |  |                          |
| <b>1. State Mineral Estate:</b>  |                          |  |                          |
| Are supplemental pages for land status included in Appendix C? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No   |                          |  |                          |
| Affected ADL: See Appendix C      Date Effective: Varies      Date Assigned: Unknown   |                          |  |                          |
| Oil And Gas Lessee(s): CPAI  |                          |  |                          |
| Surface Ownership: State of Alaska   |                          |  |                          |
| Do you have, or anticipate having an Access Agreement: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No   |                          |  |                          |
| Special Use Lands: None identified   |                          |  |                          |
| Jointly Managed Lands: None identified   |                          |  |                          |
| Other Considerations: None   |                          |  |                          |
| <b>Project Components</b>  |                          | <b>Meridian, Township, Range, And Section(s)</b> |                          |
| Add gravel to increase width and height of existing roadway  |                          | Umia, Multiple Townships, Ranges, and Sections   |                          |
|  |                          | N/A (Linear)                                     |                          |
| <b>2. State of Alaska Surface Lands:</b>   |                          |  |                          |
| Are supplemental pages for land status included in Appendix C? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No   |                          |  |                          |
| Oil And Gas Mineral Estate Owner: N/A  |                          |  |                          |
| Access Authorization(s): N/A   |                          |  |                          |
| Special Use Lands: N/A   |                          |  |                          |
| Jointly Managed Lands: N/A   |                          |  |                          |
| Other Considerations: N/A  |                          |  |                          |
| <b>Project Components</b>  |                          | <b>Meridian, Township, Range, And Section(s)</b> |                          |
| N/A  |                          | N/A  |                          |
|  |                          | N/A  |                          |
| <b>3. Private Lands:</b>   |                          |  |                          |
| Are supplemental pages for land status included in Appendix C? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No   |                          |  |                          |
| Oil And Gas Mineral Estate Owner: N/A  |                          |  |                          |
| Surface Ownership And Access Agreement(s): N/A   |                          |  |                          |
| Special Use Lands: N/A   |                          |  |                          |
| Jointly Managed Lands: N/A   |                          |  |                          |
| Other Considerations: N/A  |                          |  |                          |
| <b>Project Components</b>  |                          | <b>Meridian, Township, Range, And Section(s)</b> |                          |
| N/A  |                          | N/A  |                          |
| N/A  |                          | N/A  |                          |
| N/A  |                          | N/A  |                          |
| <b>SECTION VI: SEQUENCE AND SCHEDULE OF OPERATIONS</b>   |                          |  |                          |
| <b>Project Milestone #</b>   | <b>Project Milestone</b> | <b>Proposed Start Date</b>                       | <b>Proposed End Date</b> |
| 1.   | Addition of gravel       | 4/15/2018  | 12/31/2022               |
| 2.   | N/A                      | N/A  | 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 |
| <b>SECTION VIII: REHABILITATION PLAN</b>  |                          |                                    |          |   |
| 1. Proposed Level of Infrastructure, Facilities and Equipment Removal:  |                          |                                    |          |   |
| N/A   |                          |                                    |          |   |
| 2. Description of Restoration and Rehabilitation Activities for Vegetation, Habitat, Impacted Wildlife, and Other Applicable Resources:   |                          |                                    |          |   |
| The amended application does not change the rehabilitation plans outlined in the original authorization. Upon abandonment.  |                          |                                    |          |   |
| <b>SECTION IX: OPERATING PROCEDURES DESIGNED TO MINIMIZE ADVERSE EFFECTS</b>  |                          |                                    |          |   |
| Describe operating procedures designed to prevent or minimize adverse effects on other natural resources and other uses of the Unit area and adjacent areas including:  |                          |                                    |          |   |
| Fish and Wildlife Habitats: CPAI has a Wildlife Avoidance Interaction Plan designed to prevent or minimize adverse effects on other natural resources.  |                          |                                    |          |   |
| Historic and Archeological Sites: CPAI does not believe this would have any impacts to cultural resources since the area has been previously cleared from archeological and cultural clearance. No impacts are expected.  |                          |                                    |          |   |
| Public Use Areas: This area is not open to the public.  |                          |                                    |          |   |
| Other Uses: N/A   |                          |                                    |          |   |
| <b>SECTION X: GLOSSARY OF TERMS</b>   |                          |                                    |          |   |
| <b>Term #</b>   | <b>Term</b>              | <b>Term Definition</b>             |          |   |
| 1.  | N/A                      | Not Applicable                     |          |   |
| 2.  | TBD                      | To Be Determined                   |          |   |
| 3.  | CPAI                     | ConocoPhillips Alaska, Inc.        |          |   |
| 4.  | DS                       | Drill Site                         |          |   |
| 5.  | TLUI                     | Traditional Land Use Inventory     |          |   |
| 6.  | SHPO                     | State Historic Preservation Office |          |   |
|   |                          |                                    |          |   |
| <b>SECTION XI: CONFIDENTIALITY</b>  |                          |                                    |          |   |
| The undersigned hereby requests that each page/section of this application <u>marked</u> confidential be held confidential under AS 38.05.035(a)(8).<br>APPLICANT CONTACT:  |                          |                                    |          |   |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 25%;">Signature</div> <div style="width: 25%;">Name</div> <div style="width: 25%;">Title</div> <div style="width: 25%;">Date</div> </div> |                          |                                    |          |   |

See attached.

Not Applicable

Not Applicable

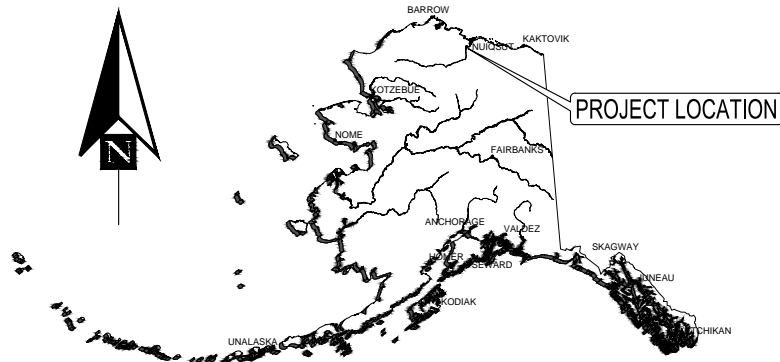
| LAND STATUS: SUPPLEMENTAL SECTION  |   |   |
|--|---|---|
| <b>1. State Mineral Estate:</b>  |   |   |
| Affected ADL: 025647   | Date Effective: 11/2/1964                 | Date Assigned: Unknown                    |
| Oil And Gas Lessee(s): CPAI  |   |   |
| Surface Ownership: State of Alaska   |   |   |
| Do you have, or anticipate having an Access Agreement: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |   |   |
| Special Use Lands: None Identified   |   |   |
| Jointly Managed Lands: None Identified   |   |   |
| Other Considerations: None Identified  |   |   |
| Project Components   | Meridian, Township, Range, And Section(s) | GPS Coordinates                           |
| Add gravel to increase width and height of existing roadway  | Umiat, T11N, R10E, S5, 6                  | N/A (Linear)                              |
| <a href="#">Click here to enter text.</a>  | <a href="#">Click here to enter text.</a> | <a href="#">Click here to enter text.</a> |
| <a href="#">Click here to enter text.</a>  | <a href="#">Click here to enter text.</a> | <a href="#">Click here to enter text.</a> |
| Affected ADL: 025646   | Date Effective: 11/2/1694                 | Date Assigned: Unknown                    |
| Oil And Gas Lessee(s): CPAI  |   |   |
| Surface Ownership: State of Alaska   |   |   |
| Do you have, or anticipate having an Access Agreement: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |   |   |
| Special Use Lands: None Identified   |   |   |
| Jointly Managed Lands: None Identified   |   |   |
| Other Considerations: None Identified  |   |   |
| Project Components   | Meridian, Township, Range, And Section(s) | GPS Coordinates                           |
| Add gravel to increase width and height of existing roadway  | Umiat, T11N, R9E, S1, 11, 12              | N/A (Linear)                              |
| <a href="#">Click here to enter text.</a>  | <a href="#">Click here to enter text.</a> | <a href="#">Click here to enter text.</a> |
| <a href="#">Click here to enter text.</a>  | <a href="#">Click here to enter text.</a> | <a href="#">Click here to enter text.</a> |
| Affected ADL: 025653   | Date Effective: 11/2/1694                 | Date Assigned: Unknown                    |
| Oil And Gas Lessee(s): CPAI  |   |   |
| Surface Ownership: State of Alaska   |   |   |
| Do you have, or anticipate having an Access Agreement: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |   |   |
| Special Use Lands: None Identified   |   |   |
| Jointly Managed Lands: None Identified   |   |   |
| Other Considerations: None Identified  |   |   |
| Project Components   | Meridian, Township, Range, And Section(s) | GPS Coordinates                           |
| Add gravel to increase width and height of existing roadway  | Umiat, T11N, R9E, S14                     | N/A (Linear)                              |
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| <a href="#">Click here to enter text.</a>  | <a href="#">Click here to enter text.</a> | <a href="#">Click here to enter text.</a> |

|  |  |                             |                            |
|--|--|-----------------------------|----------------------------|
| Affected ADL: 025654   |  | Date Effective: 11/2/1694   | Date Assigned: Unknown     |
| Oil And Gas Lessee(s): CPAI  |  |                             |                            |
| Surface Ownership: State of Alaska   |  |                             |                            |
| Do you have, or anticipate having an Access Agreement: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |  |                             |                            |
| Special Use Lands: None Identified   |  |                             |                            |
| Jointly Managed Lands: None Identified   |  |                             |                            |
| Other Considerations: None Identified  |  |                             |                            |
| <b>Project Components</b>  | <b>Meridian, Township, Range, And Section(s)</b> | <b>GPS Coordinates</b>      |                            |
| Add gravel to increase width and height of existing roadway  | Umiat, T 11N, R9E, S15, 16, 21                   | 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 here to enter text.   |  |                             |                            |
| Surface Ownership: Click here to enter text.   |  |                             |                            |
| Do you have, or anticipate having an Access Agreement: <input type="checkbox"/> Yes <input type="checkbox"/> No            |  |                             |                            |
| Special Use Lands: Click here to enter text.   |  |                             |                            |
| Jointly Managed Lands: Click here to enter text.   |  |                             |                            |
| Other Considerations: Click here to enter text.  |  |                             |                            |
| <b>Project Components</b>  | <b>Meridian, Township, Range, And Section(s)</b> | <b>GPS Coordinates</b>      |                            |
| 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.   |                            |
| <b>2. State of Alaska Surface Lands:</b>   |  |                             |                            |
| 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.  |  |                             |                            |
| <b>Project Components</b>  | <b>Meridian, Township, Range, And Section(s)</b> | <b>GPS Coordinates</b>      |                            |
| 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.  |  |                             |                            |
| Access Authorization(s): Click here to enter text.   |  |                             |                            |
| Special Use Lands: Click here to enter text.   |  |                             |                            |
| Jointly Managed Lands: Click here to enter text.   |  |                             |                            |

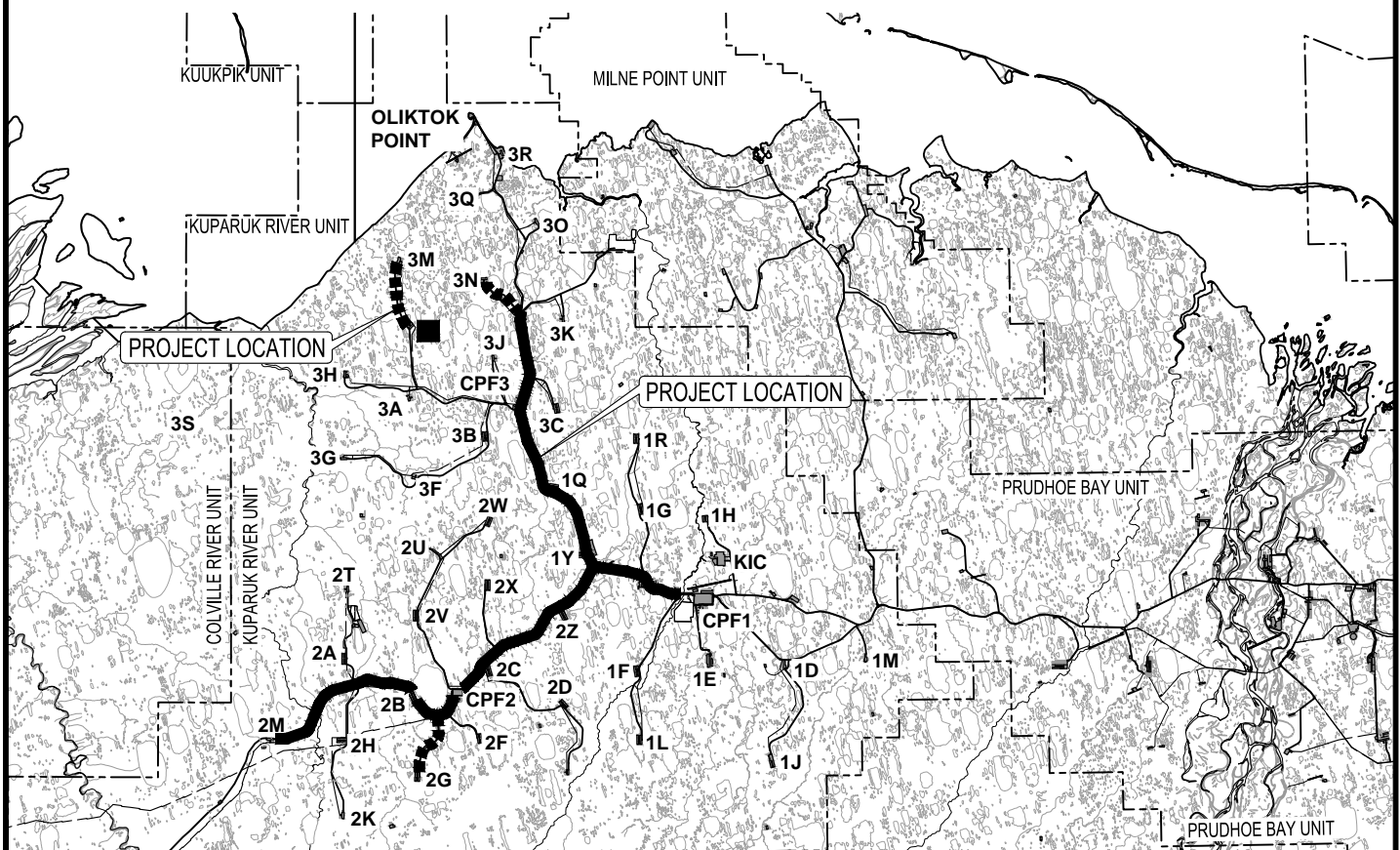
| Other Considerations: <a href="#">Click here to enter text.</a>  |   |   |
|--|---|---|
| Project Components   | Meridian, Township, Range, And Section(s) | GPS Coordinates                           |
| <a href="#">Click here to enter text.</a>  | <a href="#">Click here to enter text.</a> | <a href="#">Click here to enter text.</a> |
| <a href="#">Click here to enter text.</a>  | <a href="#">Click here to enter text.</a> | <a href="#">Click here to enter text.</a> |
| <a href="#">Click here to enter text.</a>  | <a href="#">Click here to enter text.</a> | <a href="#">Click here to enter text.</a> |
| Oil And Gas Mineral Estate Owner: <a href="#">Click here to enter text.</a><br>Access Authorization(s): <a href="#">Click here to enter text.</a><br>Special Use Lands: <a href="#">Click here to enter text.</a><br>Jointly Managed Lands: <a href="#">Click here to enter text.</a><br>Other Considerations: <a href="#">Click here to enter text.</a>                   |   |   |
| Project Components   | Meridian, Township, Range, And Section(s) | GPS Coordinates                           |
| <a href="#">Click here to enter text.</a>  | <a href="#">Click here to enter text.</a> | <a href="#">Click here to enter text.</a> |
| <a href="#">Click here to enter text.</a>  | <a href="#">Click here to enter text.</a> | <a href="#">Click here to enter text.</a> |
| <a href="#">Click here to enter text.</a>  | <a href="#">Click here to enter text.</a> | <a href="#">Click here to enter text.</a> |
| Oil And Gas Mineral Estate Owner: <a href="#">Click here to enter text.</a><br>Access Authorization(s): <a href="#">Click here to enter text.</a><br>Special Use Lands: <a href="#">Click here to enter text.</a><br>Jointly Managed Lands: <a href="#">Click here to enter text.</a><br>Other Considerations: <a href="#">Click here to enter text.</a>                   |   |   |
| Project Components   | Meridian, Township, Range, And Section(s) | GPS Coordinates                           |
| <a href="#">Click here to enter text.</a>  | <a href="#">Click here to enter text.</a> | <a href="#">Click here to enter text.</a> |
| <a href="#">Click here to enter text.</a>  | <a href="#">Click here to enter text.</a> | <a href="#">Click here to enter text.</a> |
| <a href="#">Click here to enter text.</a>  | <a href="#">Click here to enter text.</a> | <a href="#">Click here to enter text.</a> |
| <b>3. Private Lands:</b>   |   |   |
| Oil And Gas Mineral Estate Owner: <a href="#">Click here to enter text.</a><br>Surface Ownership And Access Agreement(s): <a href="#">Click here to enter text.</a><br>Special Use Lands: <a href="#">Click here to enter text.</a><br>Jointly Managed Lands: <a href="#">Click here to enter text.</a><br>Other Considerations: <a href="#">Click here to enter text.</a> |   |   |
| Project Components   | Meridian, Township, Range, And Section(s) | GPS Coordinates                           |
| <a href="#">Click here to enter text.</a>  | <a href="#">Click here to enter text.</a> | <a href="#">Click here to enter text.</a> |
| <a href="#">Click here to enter text.</a>  | <a href="#">Click here to enter text.</a> | <a href="#">Click here to enter text.</a> |
| <a href="#">Click here to enter text.</a>  | <a href="#">Click here to enter text.</a> | <a href="#">Click here to enter text.</a> |
| Oil And Gas Mineral Estate Owner: <a href="#">Click here to enter text.</a><br>Surface Ownership And Access Agreement(s): <a href="#">Click here to enter text.</a><br>Special Use Lands: <a href="#">Click here to enter text.</a><br>Jointly Managed Lands: <a href="#">Click here to enter text.</a>  |   |   |

| 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.<br>Surface Ownership And Access Agreement(s):    Click here to enter text.<br>Special Use Lands:    Click here to enter text.<br>Jointly Managed Lands:    Click here to enter text.<br>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.<br>Surface Ownership And Access Agreement(s):    Click here to enter text.<br>Special Use Lands:    Click here to enter text.<br>Jointly Managed Lands:    Click here to enter text.<br>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. |





**ALASKA VICINITY MAP**



**PROJECT AREA**



**PURPOSE:**  
GRAVEL ROAD SAFETY  
IMPROVEMENTS TO PROVIDE  
ADEQUATE SUMMER ACCESS FOR  
DRILL RIGS.

**DATUM:** BPMSL, NAD83 ASP ZONE 4

**APPLICANT:** CONOCO PHILLIPS  
ALASKA, INC

**LOCATION:** T11N R8E, T11N R9E,  
T11N R10E, T12N R9E  
T13N R8E, T13N R9E  
UMIAT MERIDIAN

**ADDRESS:**

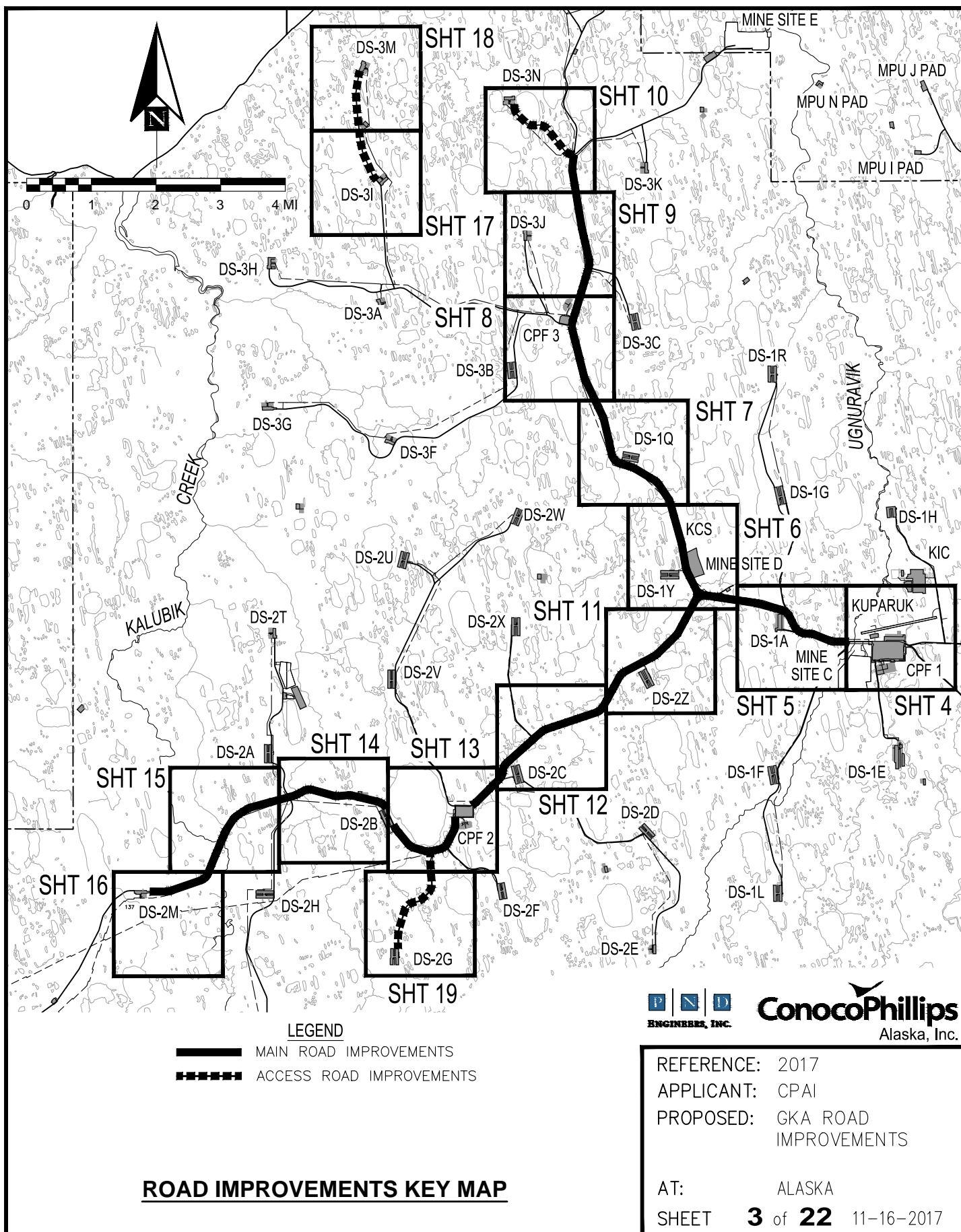
**PROPOSED:** GKA ROAD  
IMPROVEMENTS

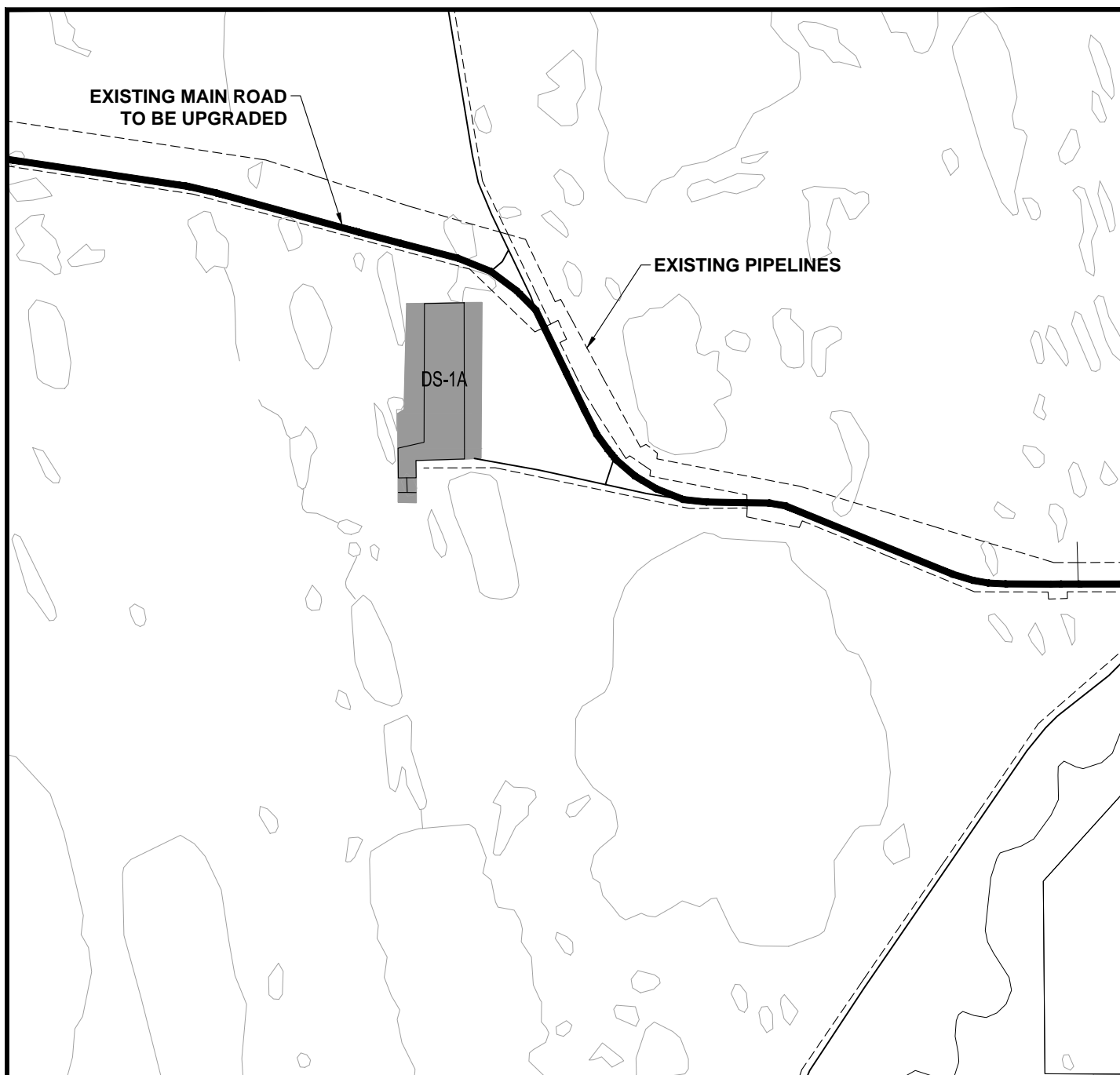
**IN:** KUPARUK RIVER UNIT  
**NEAR/AT:** KUPARUK  
**COUNTY:** ANS BOROUGH  
**STATE:** ALASKA

**SHEET** **1** of **22**  
11-16-2017









## ROAD IMPROVEMENTS (2 of 16)



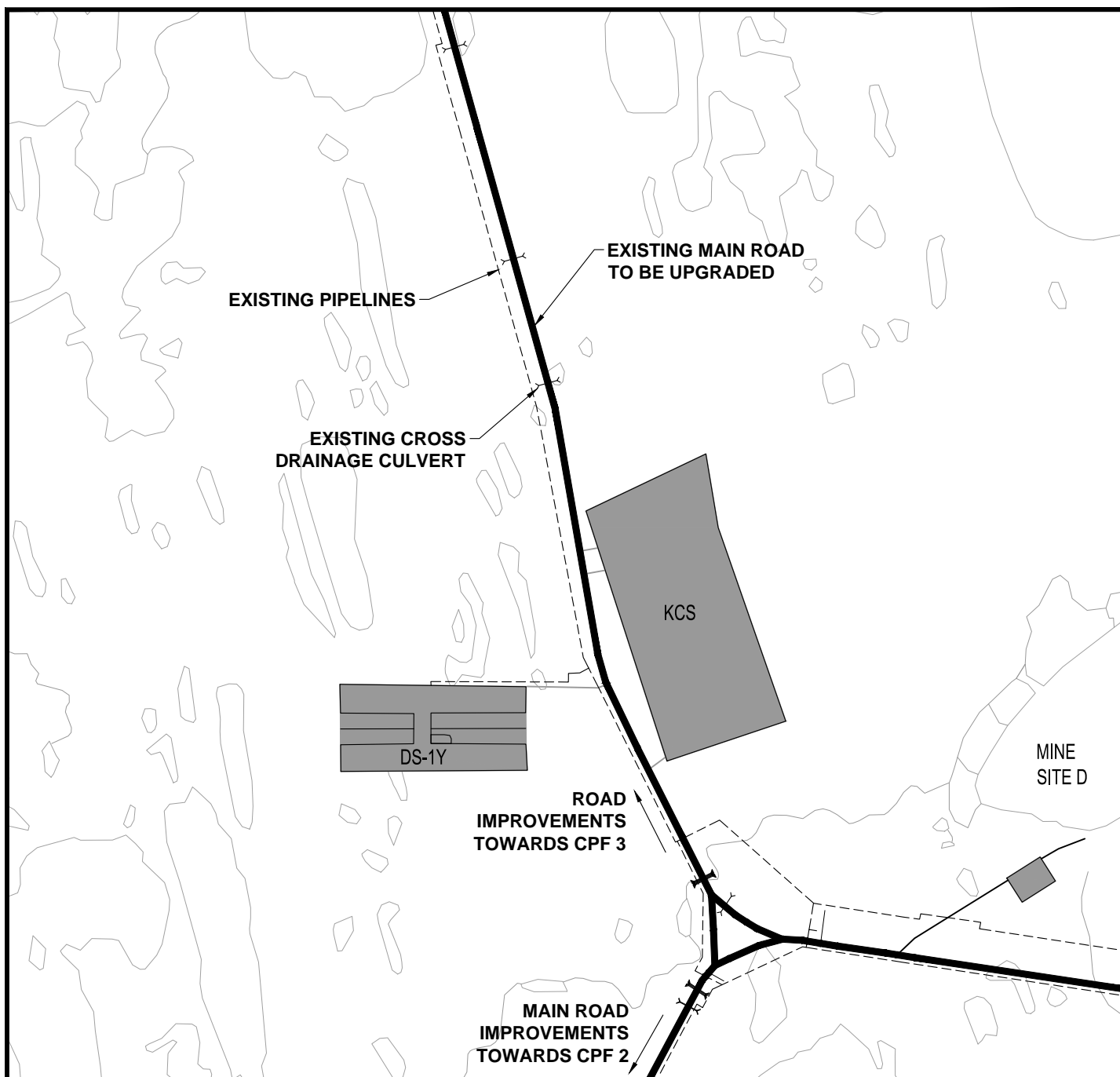
0 600 1200 1800 2400 FT

NOTE:  
CURRENT TOPOGRAPHIC SURVEY HAS  
NOT BEEN PERFORMED ON THIS  
PORTION OF PROJECT.

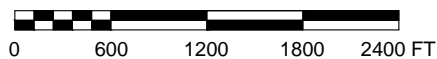


REFERENCE: 2017  
APPLICANT: CPAI  
PROPOSED: GKA ROAD  
IMPROVEMENTS

AT: ALASKA  
SHEET **5** of **22** 11-16-2017



### ROAD IMPROVEMENTS (3 of 16)

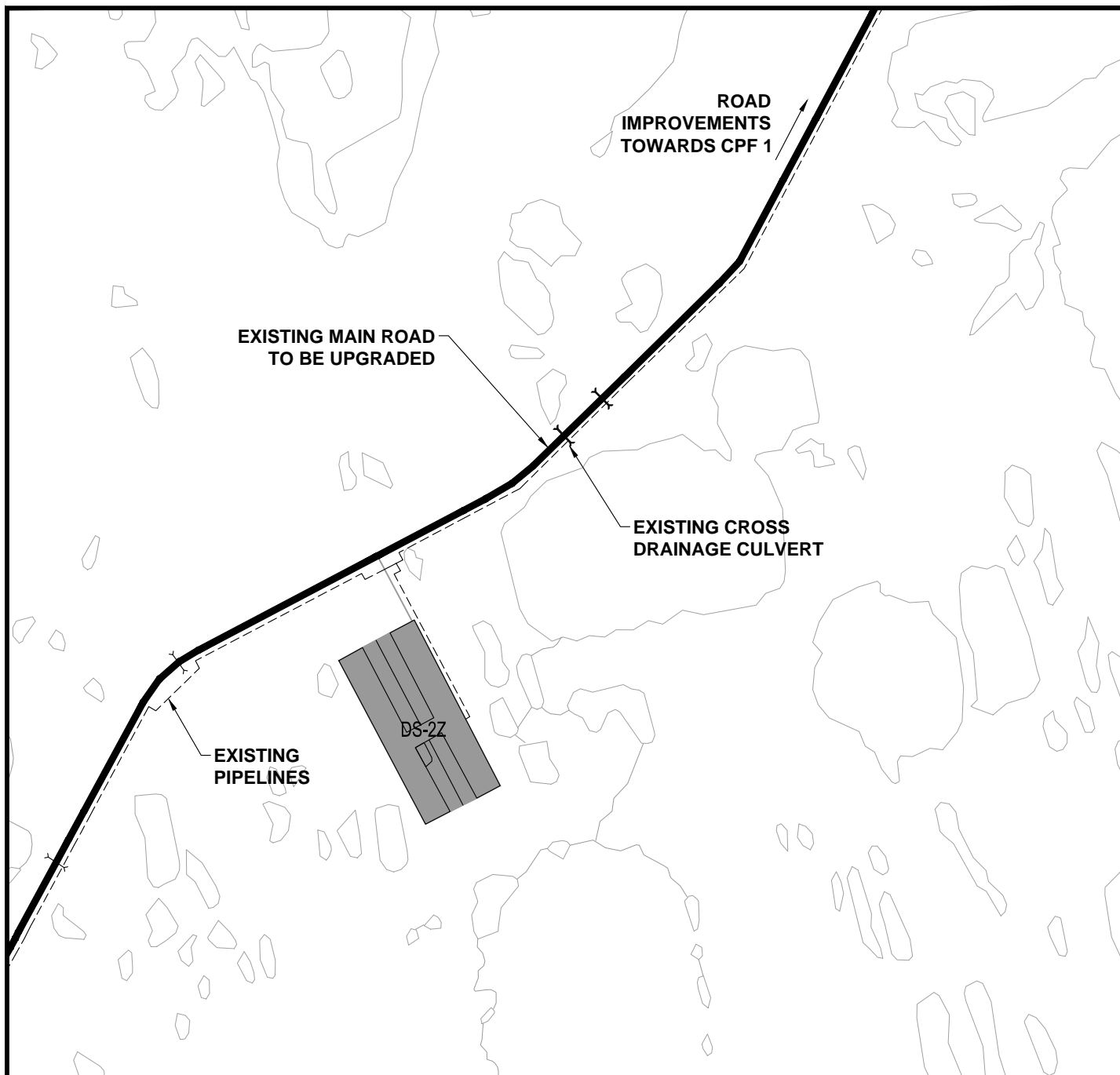


NOTE:  
EXISTING CULVERT LOCATIONS ARE  
BASED ON TOPOGRAPHIC SURVEY.



REFERENCE: 2017  
APPLICANT: CPAI  
PROPOSED: GKA ROAD  
IMPROVEMENTS

AT: ALASKA  
SHEET **6** of **22** 11-16-2017



## ROAD IMPROVEMENTS (8 of 16)



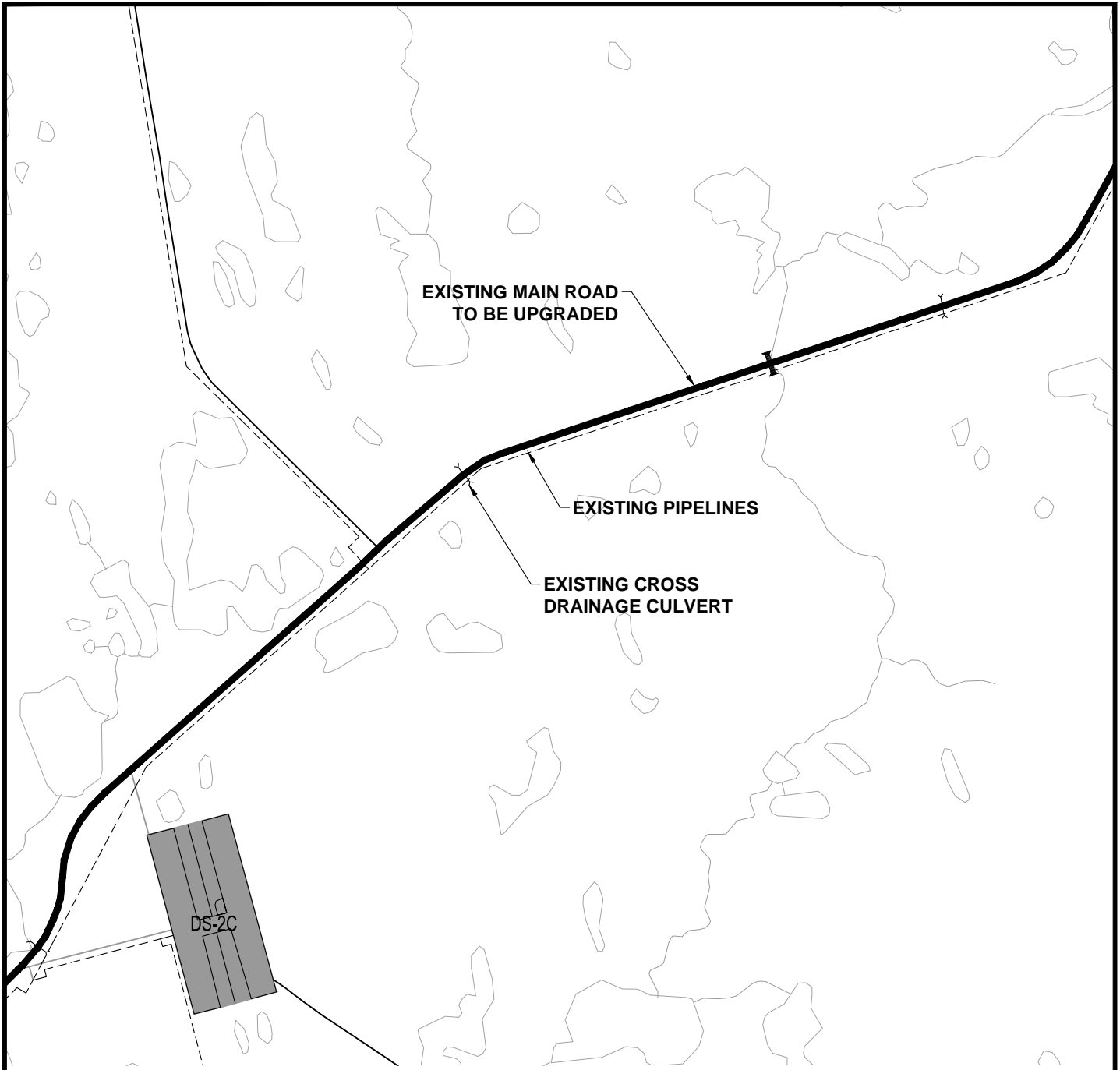
0 600 1200 1800 2400 FT

NOTE:  
EXISTING CULVERT LOCATIONS ARE  
BASED ON TOPOGRAPHIC SURVEY.



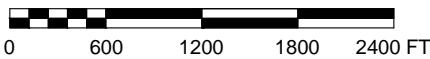
REFERENCE: 2017  
APPLICANT: CPAI  
PROPOSED: GKA ROAD  
IMPROVEMENTS

AT: ALASKA  
SHEET **11** of **22** 11-16-2017



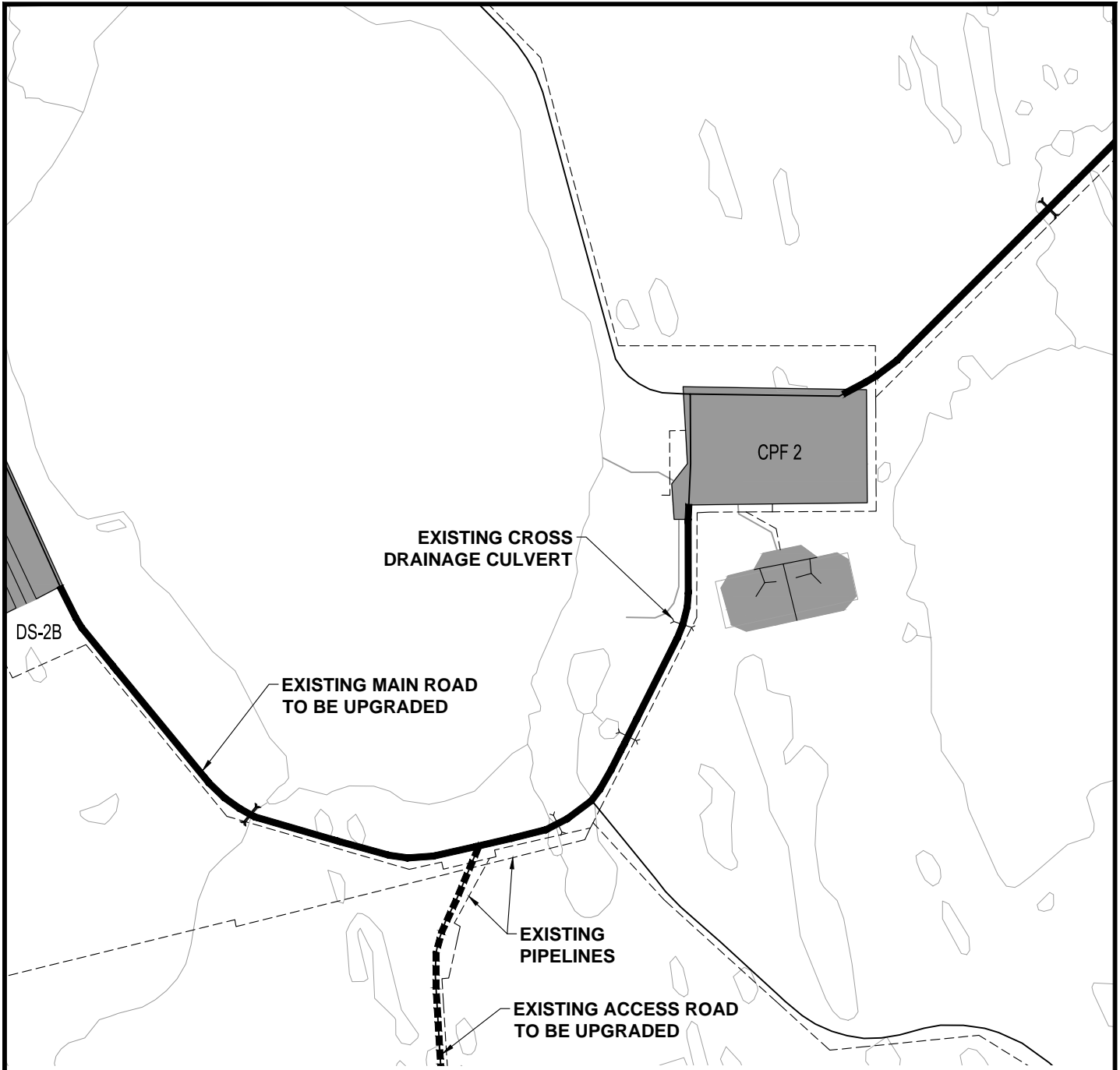
**ROAD IMPROVEMENTS (9 of 16)**

NOTE:  
EXISTING CULVERT LOCATIONS ARE  
BASED ON TOPOGRAPHIC SURVEY.



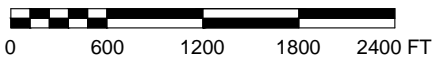
REFERENCE: 2017  
APPLICANT: CPAI  
PROPOSED: GKA ROAD  
IMPROVEMENTS

AT: ALASKA  
SHEET **12** of **22** 11-16-2017



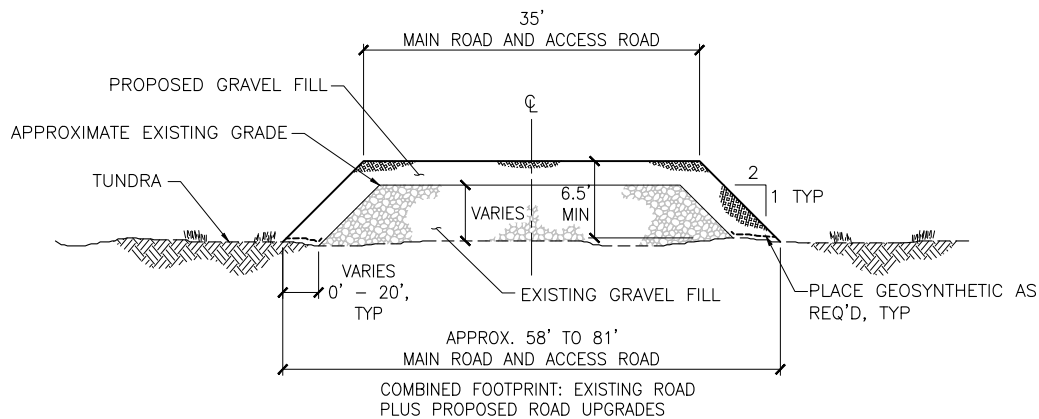
**ROAD IMPROVEMENTS (10 of 16)**

NOTE:  
EXISTING CULVERT LOCATIONS ARE  
BASED ON TOPOGRAPHIC SURVEY.



|            |                                   |
|------------|-----------------------------------|
| REFERENCE: | 2017                              |
| APPLICANT: | CPAI                              |
| PROPOSED:  | GKA ROAD IMPROVEMENTS             |
| AT:        | ALASKA                            |
| SHEET      | <b>13</b> of <b>22</b> 11-16-2017 |





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

NOT TO SCALE

### NOTES:

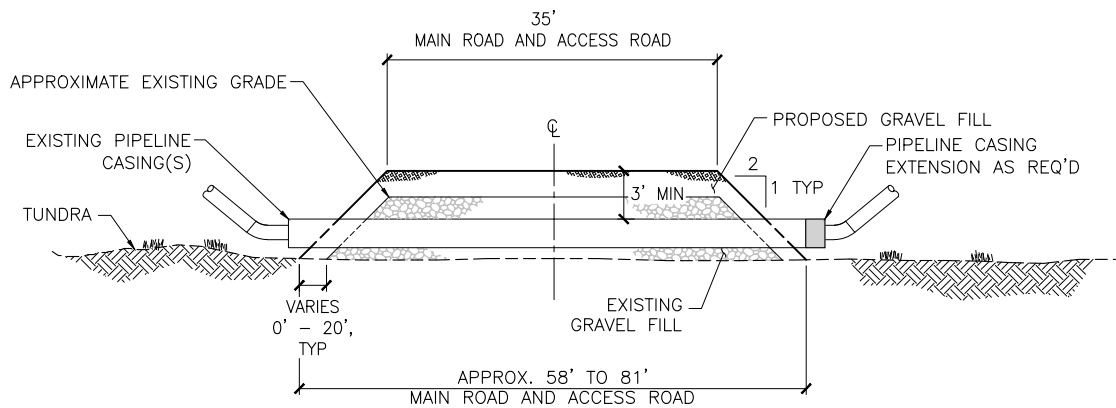
1. COMBINED ROAD FOOTPRINTS SHOWN ABOVE ARE APPROXIMATIONS BASED UPON TYPICAL ROAD PRISMS. ACTUAL FOOTPRINTS WILL VARY BASED UPON LOCAL TUNDRA FEATURES AND TOPOGRAPHY. ROAD WIDTHS MAY BE WIDER THAN DIMENSIONS INDICATED IN ISOLATED AREAS WHERE NATURAL TERRAIN DEPRESSIONS OCCUR, OR WHERE INFRASTRUCTURE 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 PIPELINE CROSSING SECTION**

NOT TO SCALE

### NOTES:

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

AT: ALASKA  
 SHEET **22** of **22** 11-16-2017