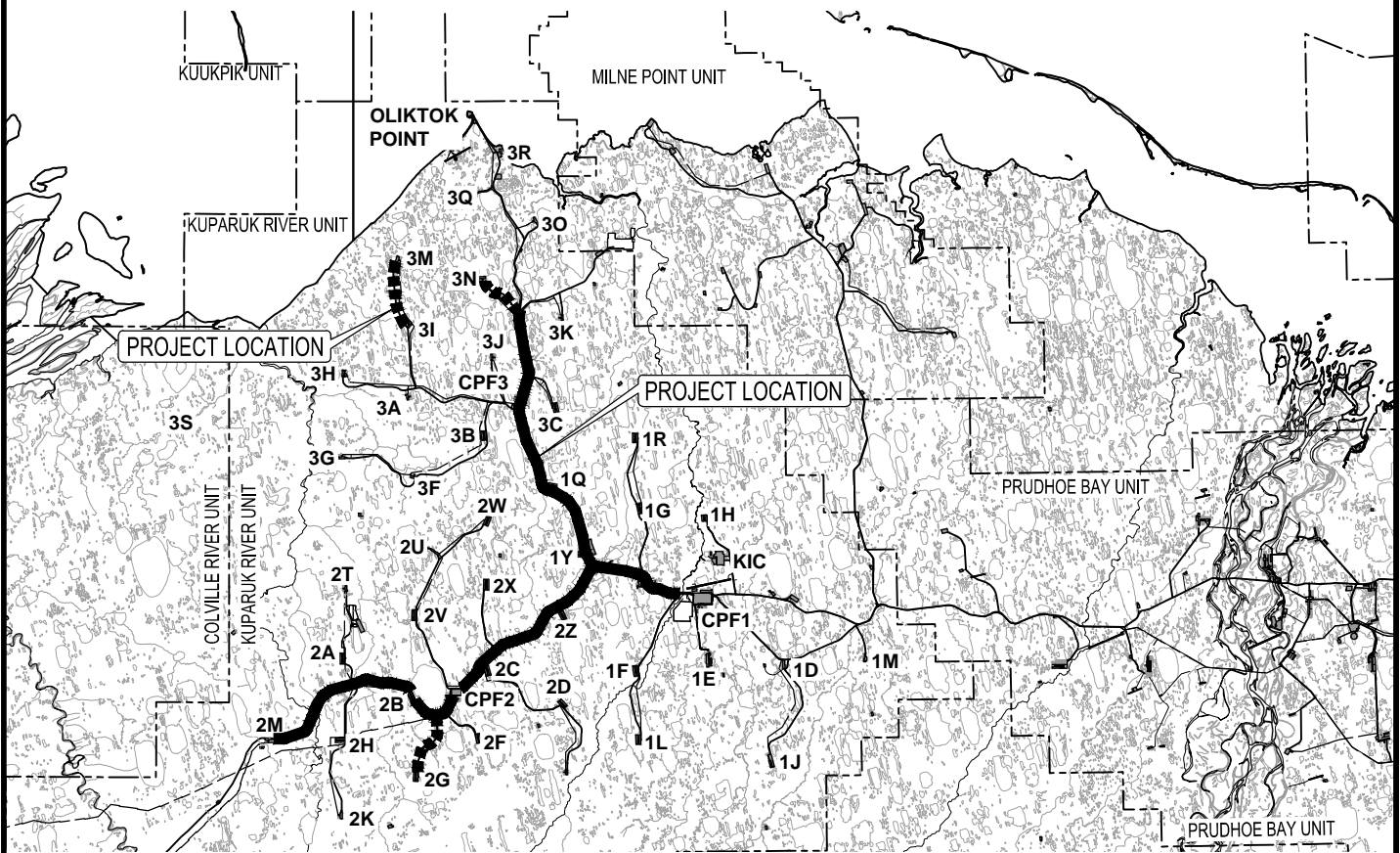


ALASKA VICINITY MAP



PROJECT AREA



PURPOSE:
GRAVEL ROAD SAFETY
IMPROVEMENTS TO PROVIDE
ADEQUATE SUMMER ACCESS FOR
DRILL RIGS.
DATUM: BPMSL, NAD83 ASP ZONE 4

APPLICANT: CONOCO PHILLIPS
2017 ALASKA, INC
LOCATION: T11N R8E, T11N R9E,
T11N R10E, T12N R9E
T13N R8E, T13N R9E
UMIAT MERIDIAN

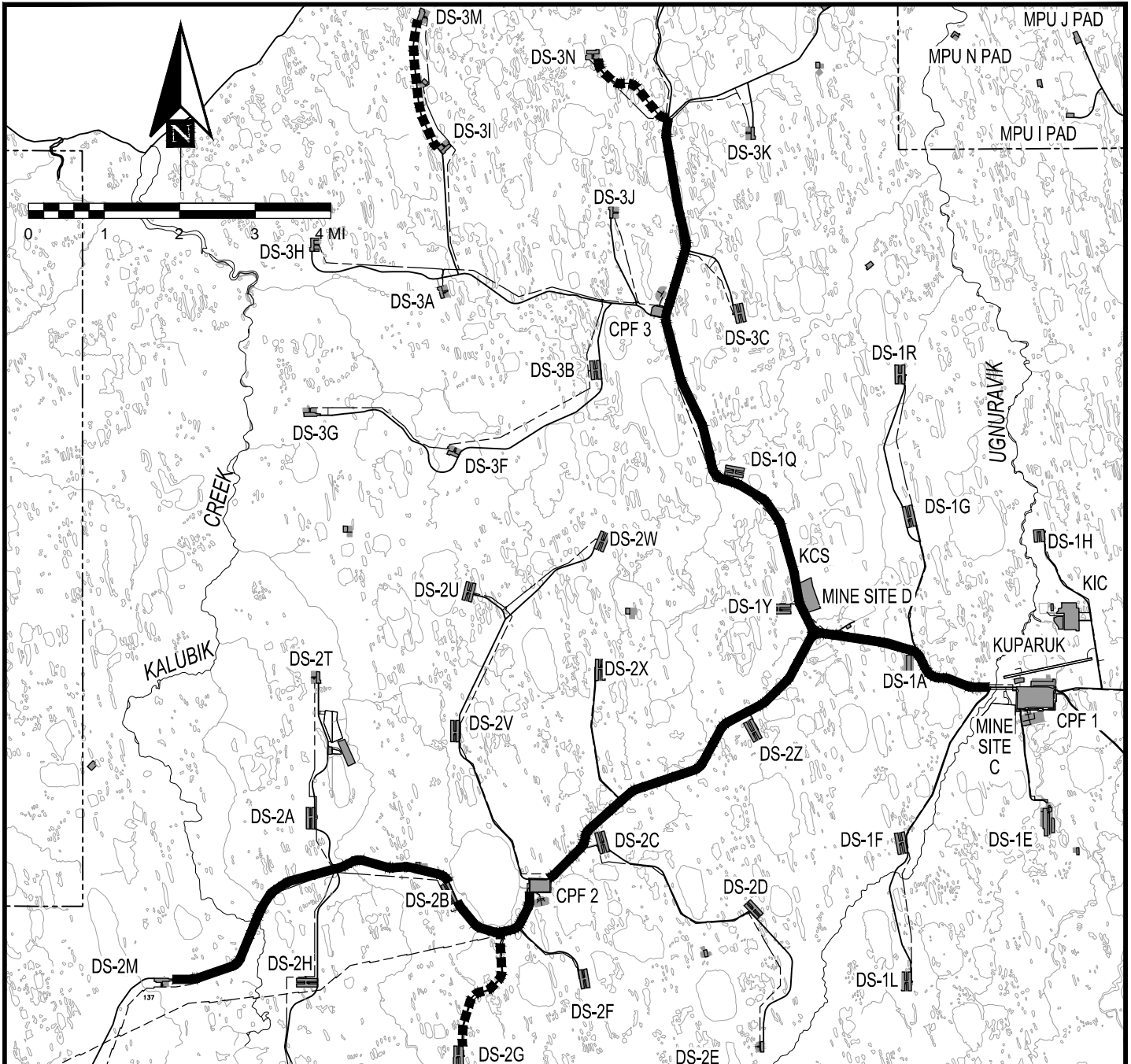
PROPOSED: GKA ROAD
IMPROVEMENTS

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



ADDRESS:

**POA-2017-541, Ugnuravik River
ConocoPhillips Alaska, Inc.
Drawings dated November 8, 2017
Sheet 1 of 22**



PROJECT LOCATION MAP

LEGEND

- MAIN ROAD IMPROVEMENTS
- ACCESS ROAD IMPROVEMENTS



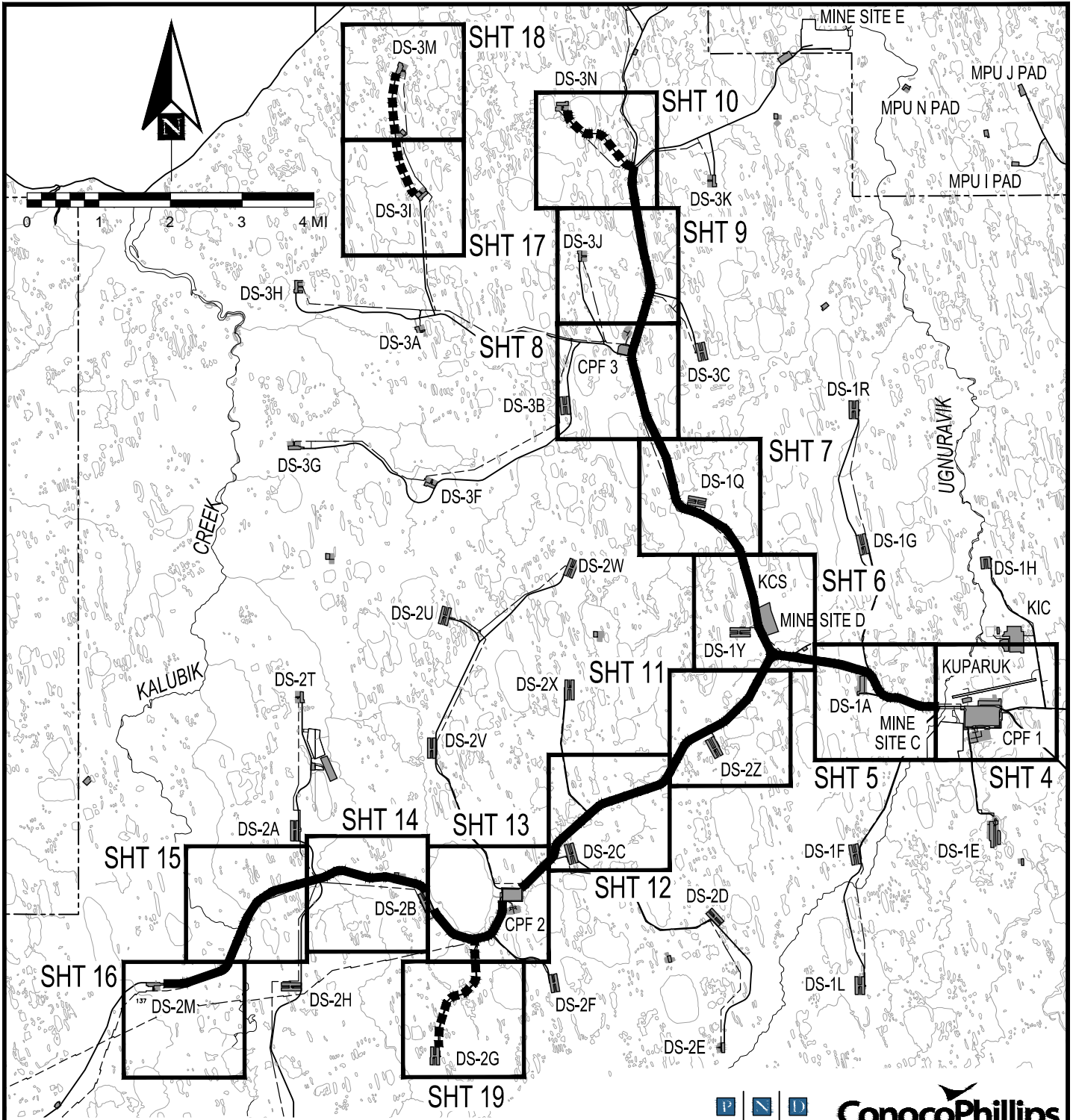
ROAD IMPROVEMENT QUANTITIES	
TOTAL ROAD LENGTH	26± MILES
EXISTING ROAD FOOTPRINT*	171 ACRES
PROPOSED ROAD EXPANSION FOOTPRINT**	48 ACRES
PROPOSED GRAVEL QUANTITIES	1,325,000 CY

* EXISTING GRAVEL ROAD FOOTPRINT BASED UPON TOPOGRAPHIC SURVEY PERFORMED SEPTEMBER 2016 AND SEPTEMBER 2017, AND AERIAL IMAGERY WHERE SURVEY IS NOT AVAILABLE.
 ** ROAD EXPANSION FOOTPRINT FOR MATERIAL PLACED OVER NATIVE TUNDRA ONLY.

REFERENCE: 2017
 APPLICANT: CPAI
 PROPOSED: GKA ROAD IMPROVEMENTS

THE MAP PROJECTION IS ALASKA STATE PLANE, NAD 83. THIS MAP IS BASED ON DATA PROVIDED BY THE U.S. GEOLOGICAL SURVEY, THE ALASKA DEPARTMENT OF NATURAL RESOURCES, AND CONOCOPHILLIPS ALASKA, INC.

**POA-2017-541, Ugnuravik River
 ConocoPhillips Alaska, Inc.
 Drawings dated November 8, 2017
 Sheet 2 of 22**



LEGEND

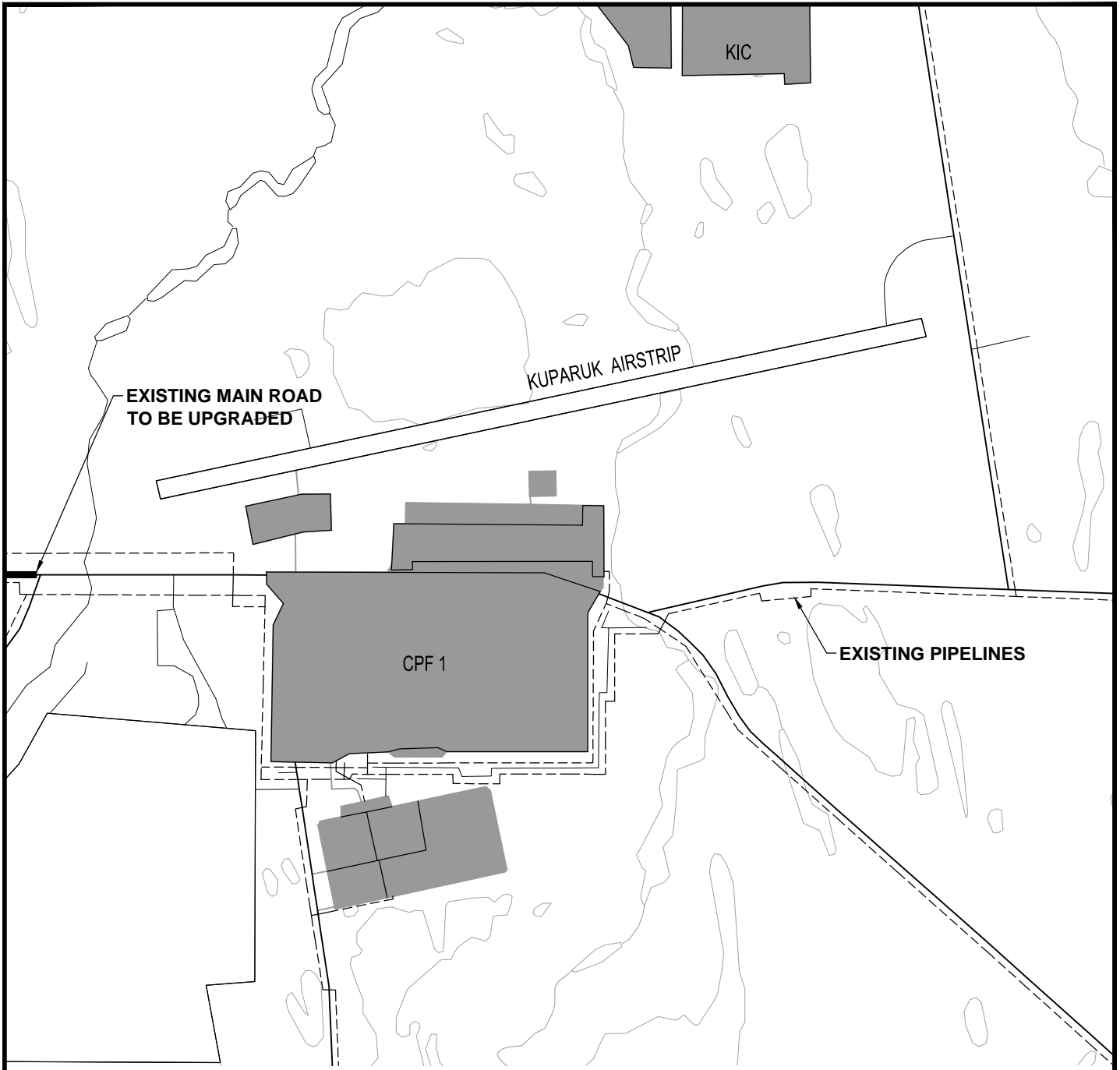
- MAIN ROAD IMPROVEMENTS
- ACCESS ROAD IMPROVEMENTS



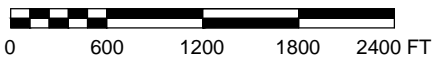
REFERENCE: 2017
 APPLICANT: CPAI
 PROPOSED: GKA ROAD IMPROVEMENTS

ROAD IMPROVEMENTS KEY MAP

POA-2017-541, Ugnuravik River
 ConocoPhillips Alaska, Inc.
 Drawings dated November 8, 2017
 Sheet 3 of 22



ROAD IMPROVEMENTS (1 of 16)

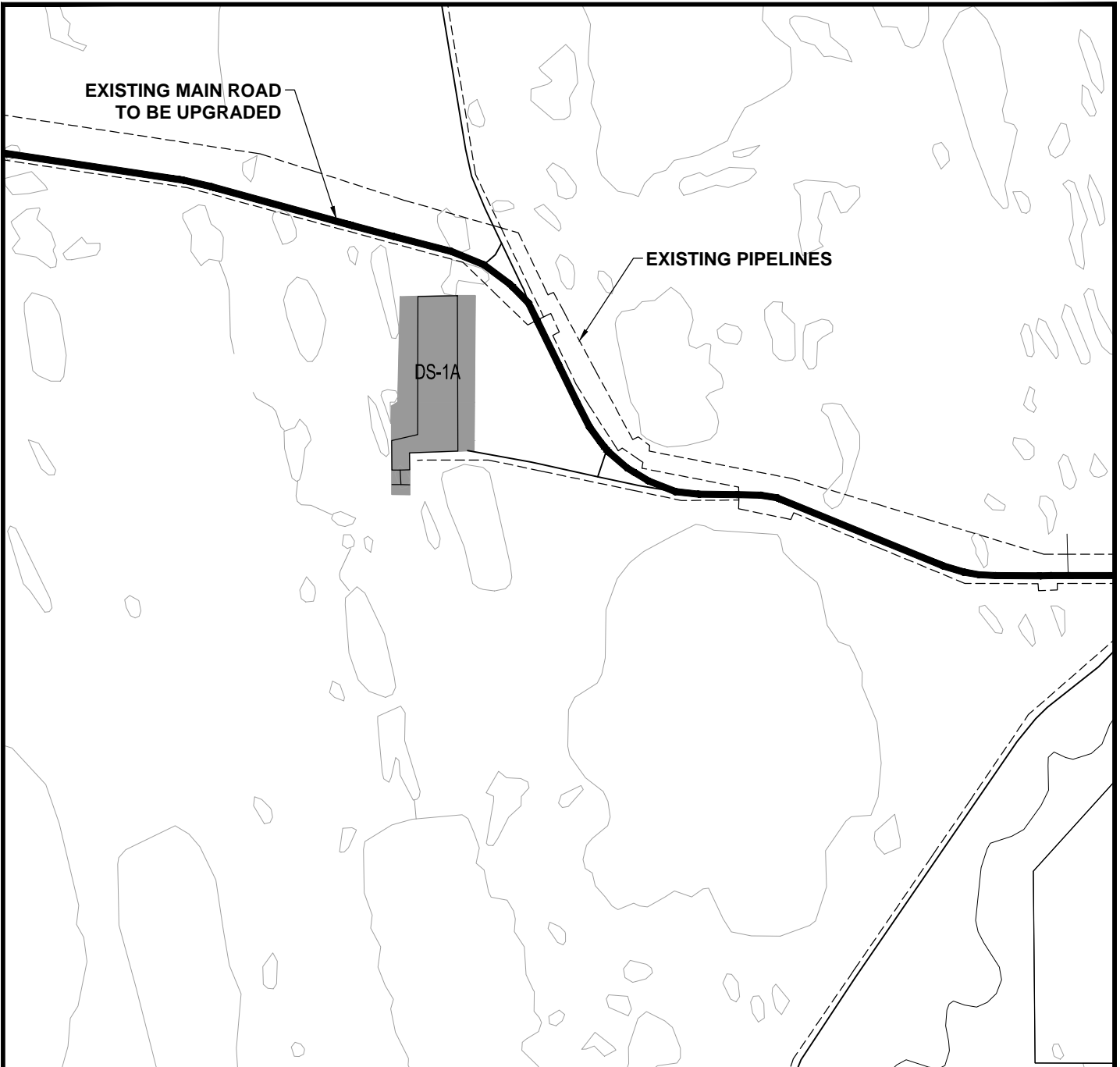


NOTE:
CURRENT TOPOGRAPHIC SURVEY HAS
NOT BEEN PERFORMED ON THIS
PORTION OF PROJECT.

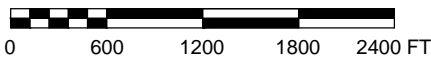


REFERENCE: 2017
 APPLICANT: CPAI
 PROPOSED: GKA ROAD
 IMPROVEMENTS

POA-2017-541, Ugnuravik River
 ConocoPhillips Alaska, Inc.
 Drawings dated November 8, 2017
 Sheet 4 of 22



ROAD IMPROVEMENTS (2 of 16)

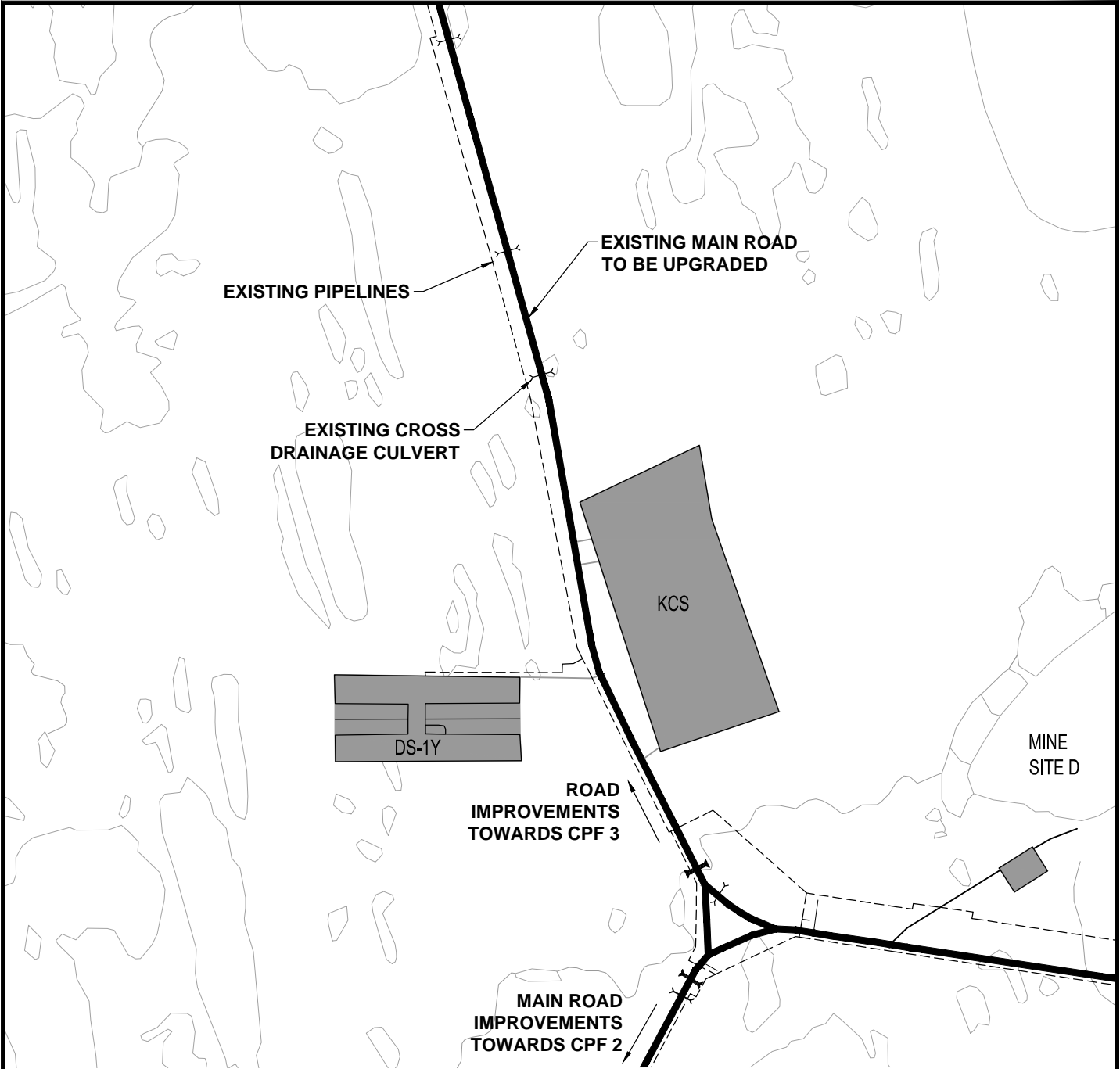


NOTE:
CURRENT TOPOGRAPHIC SURVEY HAS
NOT BEEN PERFORMED ON THIS
PORTION OF PROJECT.

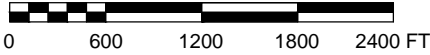


REFERENCE: 2017
APPLICANT: CPAI
PROPOSED: GKA ROAD
IMPROVEMENTS

POA-2017-541, Ugnuravik River
ConocoPhillips Alaska, Inc.
Drawings dated November 8, 2017
Sheet 5 of 22



ROAD IMPROVEMENTS (3 of 16)

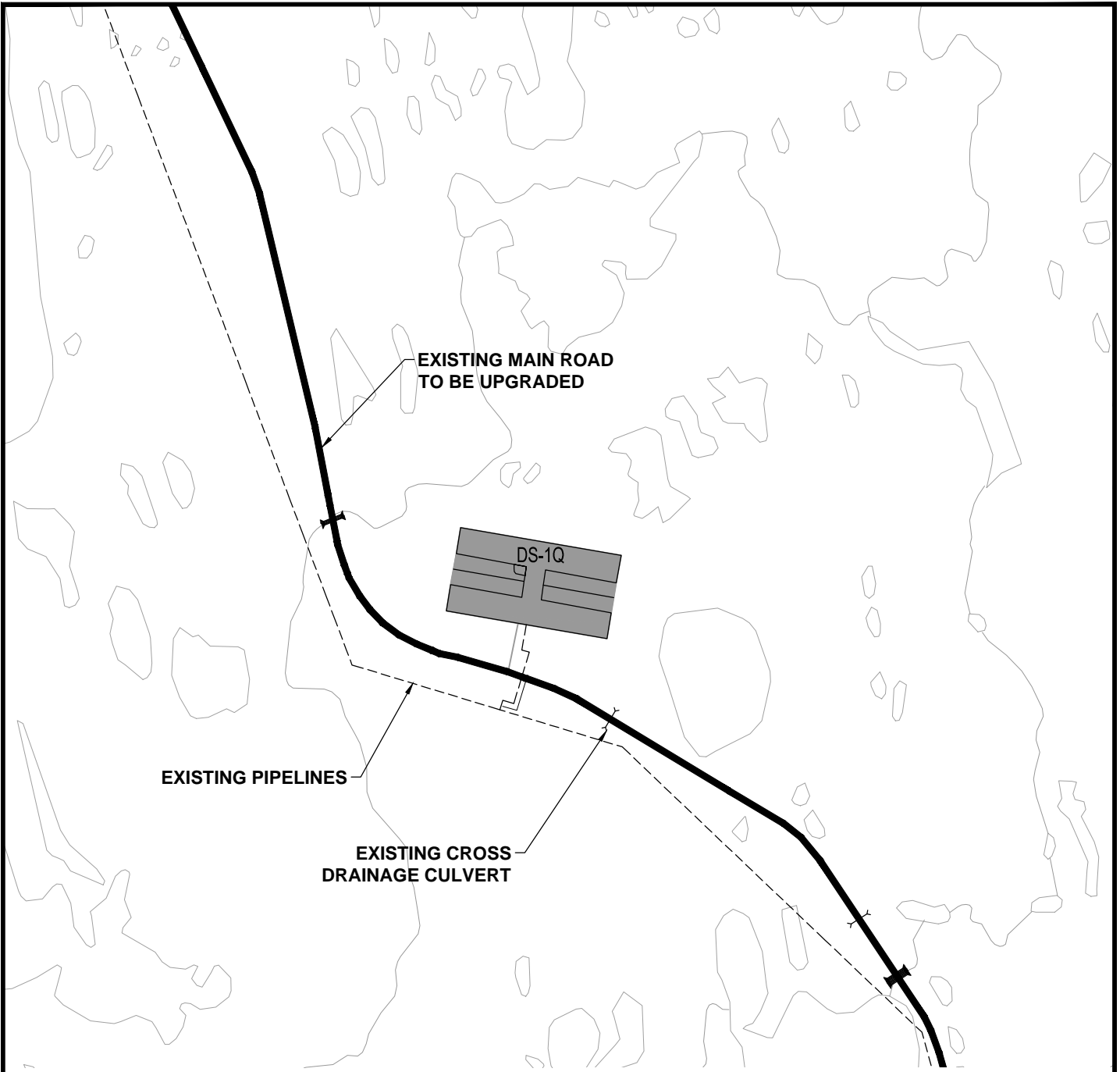


NOTE:
EXISTING CULVERT LOCATIONS ARE
BASED ON TOPOGRAPHIC SURVEY.



REFERENCE: 2017
 APPLICANT: CPAI
 PROPOSED: GKA ROAD
 IMPROVEMENTS

POA-2017-541, Ugnuravik River
 ConocoPhillips Alaska, Inc.
 Drawings dated November 8, 2017
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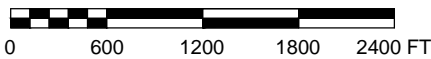
ROAD IMPROVEMENTS (4 of 16)

EXISTING PIPELINES

EXISTING CROSS DRAINAGE CULVERT

EXISTING MAIN ROAD TO BE UPGRADED

DS-1Q

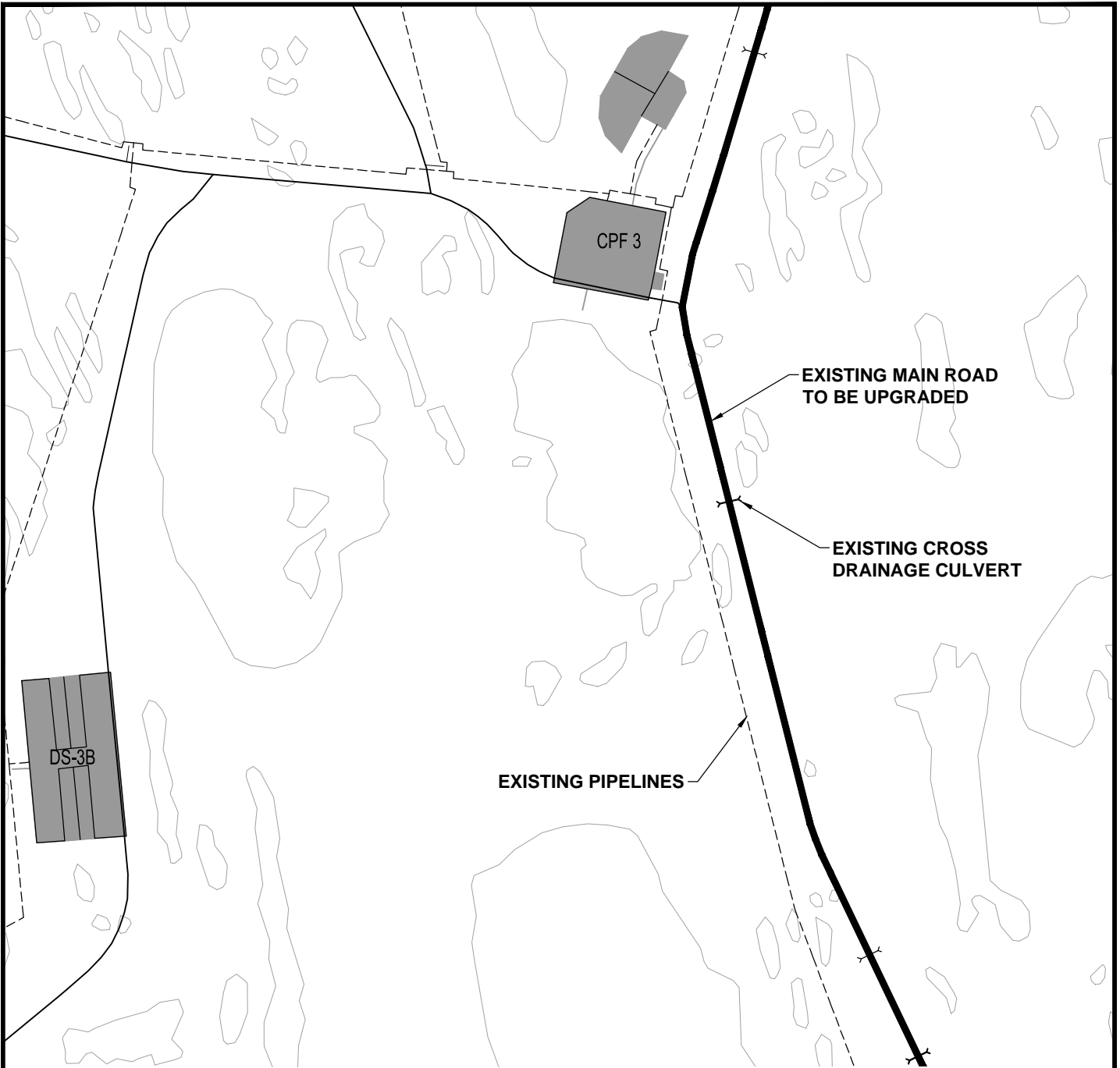


NOTE:
EXISTING CULVERT LOCATIONS ARE
BASED ON TOPOGRAPHIC SURVEY.

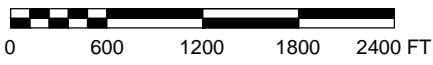


REFERENCE: 2017
 APPLICANT: CPAI
 PROPOSED: GKA ROAD
 IMPROVEMENTS

POA-2017-541, Ugnuravik River
 ConocoPhillips Alaska, Inc.
 Drawings dated November 8, 2017
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ROAD IMPROVEMENTS (5 of 16)

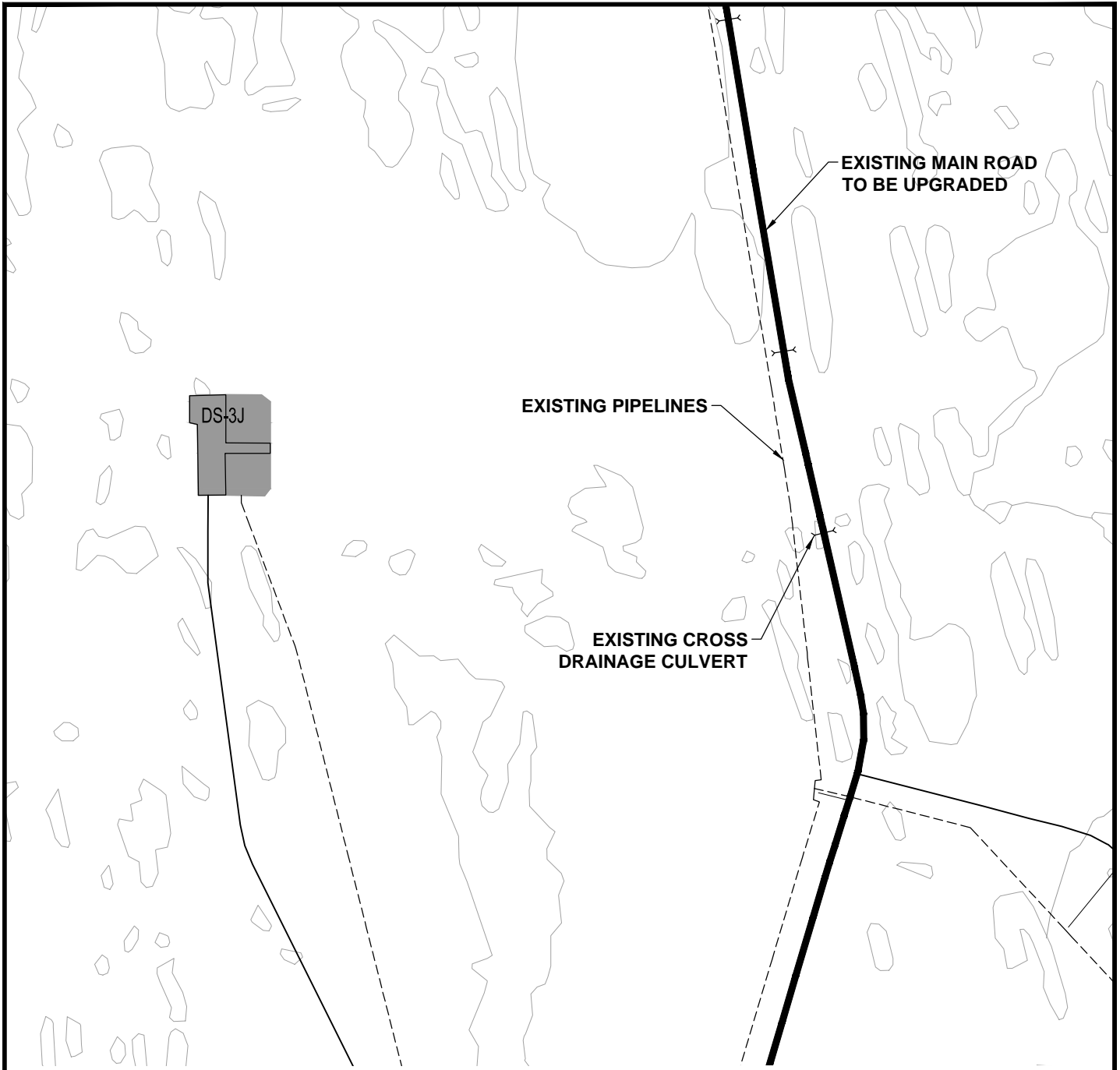


NOTE:
EXISTING CULVERT LOCATIONS ARE
BASED ON TOPOGRAPHIC SURVEY.

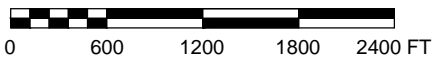


REFERENCE: 2017
 APPLICANT: CPAI
 PROPOSED: GKA ROAD
 IMPROVEMENTS

POA-2017-541, Ugnuravik River
 ConocoPhillips Alaska, Inc.
 Drawings dated November 8, 2017
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ROAD IMPROVEMENTS (6 of 16)

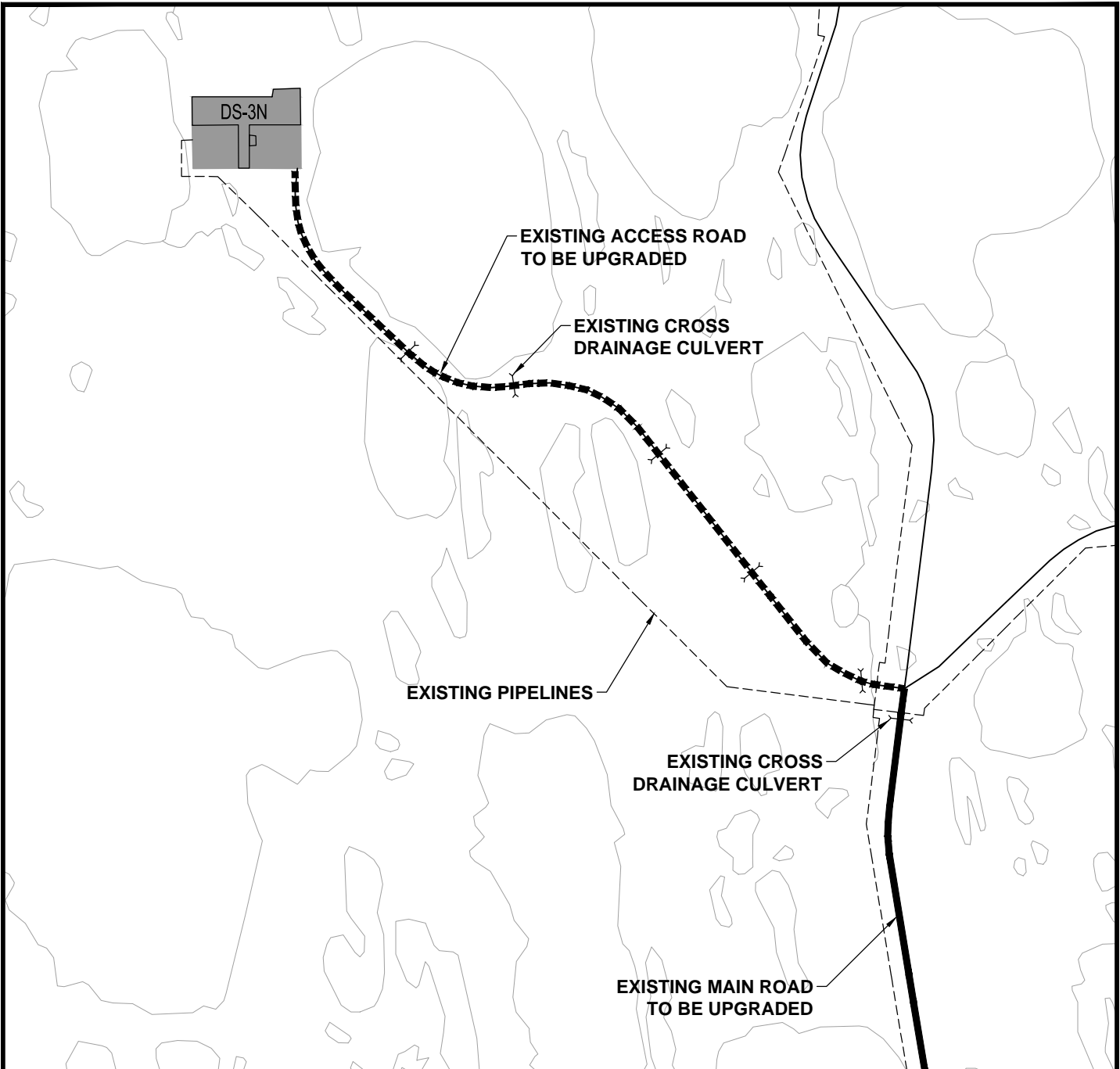


NOTE:
EXISTING CULVERT LOCATIONS ARE
BASED ON TOPOGRAPHIC SURVEY.

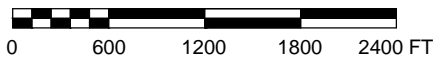


REFERENCE: 2017
 APPLICANT: CPAI
 PROPOSED: GKA ROAD
 IMPROVEMENTS

POA-2017-541, Ugnuravik River
 ConocoPhillips Alaska, Inc.
 Drawings dated November 8, 2017
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ROAD IMPROVEMENTS (7 of 16)

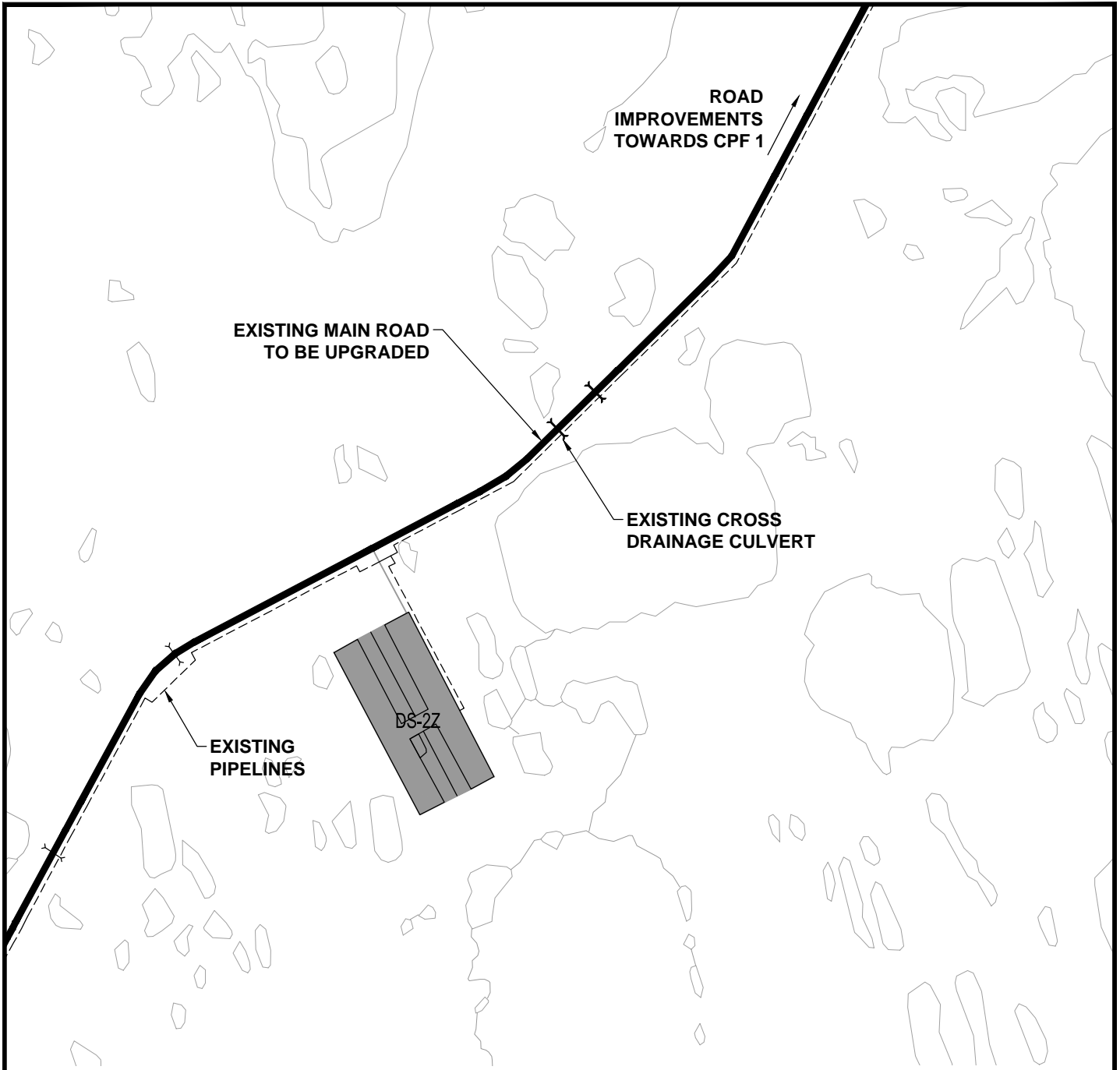


NOTE:
EXISTING CULVERT LOCATIONS ARE
BASED ON TOPOGRAPHIC SURVEY.

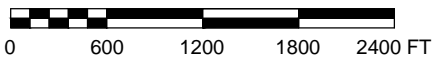


REFERENCE: 2017
 APPLICANT: CPAI
 PROPOSED: GKA ROAD
 IMPROVEMENTS

POA-2017-541, Ugnuravik River
 ConocoPhillips Alaska, Inc.
 Drawings dated November 8, 2017
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ROAD IMPROVEMENTS (8 of 16)

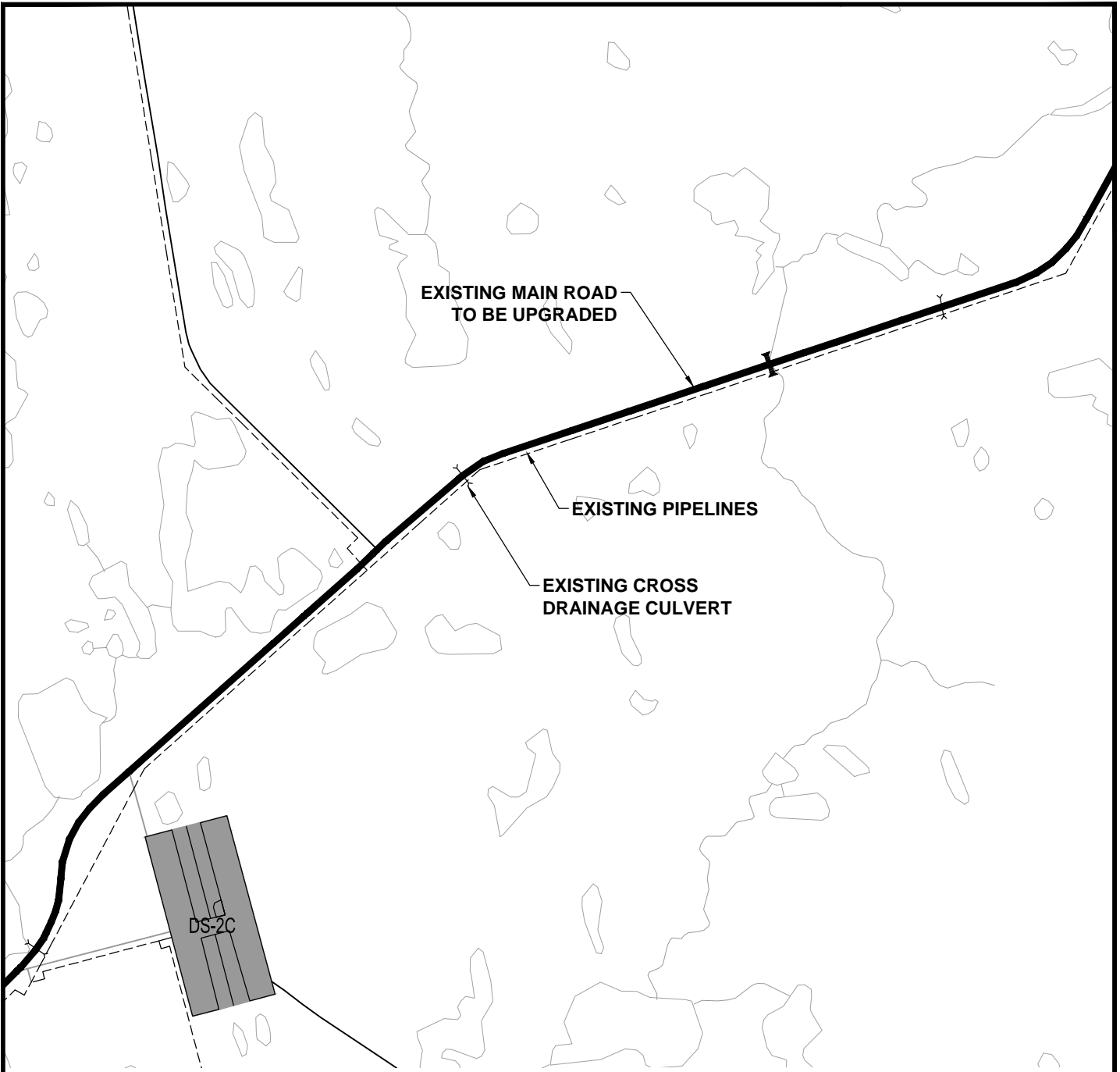


NOTE:
EXISTING CULVERT LOCATIONS ARE
BASED ON TOPOGRAPHIC SURVEY.

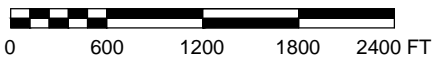


REFERENCE: 2017
 APPLICANT: CPAI
 PROPOSED: GKA ROAD
 IMPROVEMENTS

POA-2017-541, Ugnuravik River
 ConocoPhillips Alaska, Inc.
 Drawings dated November 8, 2017
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ROAD IMPROVEMENTS (9 of 16)

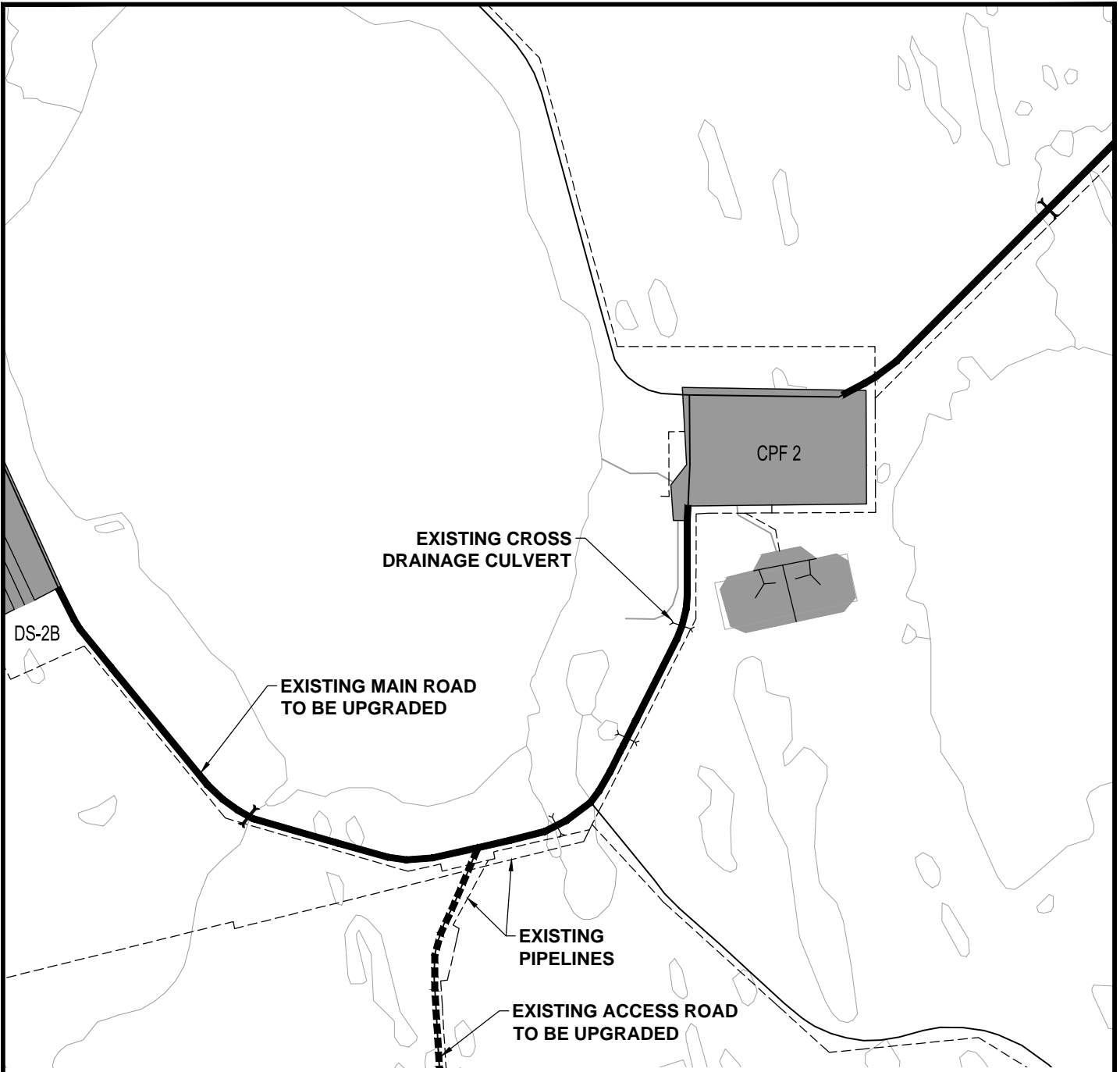


NOTE:
EXISTING CULVERT LOCATIONS ARE
BASED ON TOPOGRAPHIC SURVEY.



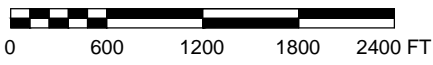
REFERENCE: 2017
 APPLICANT: CPAI
 PROPOSED: GKA ROAD

POA-2017-541, Ugnuravik River
 ConocoPhillips Alaska, Inc.
 Drawings dated November 8, 2017
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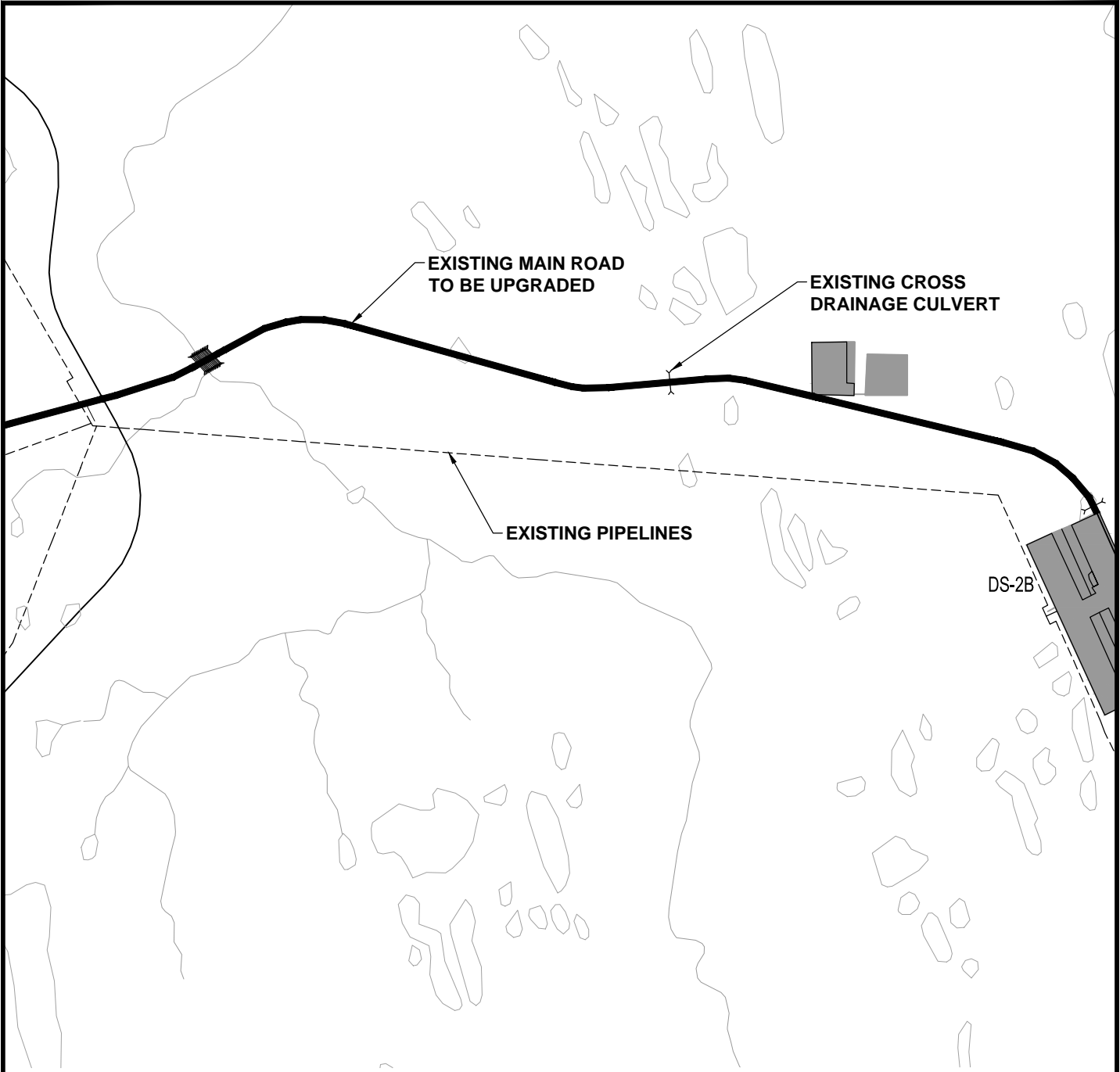
ROAD IMPROVEMENTS (10 of 16)

NOTE:
EXISTING CULVERT LOCATIONS ARE
BASED ON TOPOGRAPHIC SURVEY.

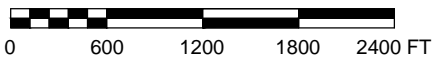


REFERENCE: 2017
 APPLICANT: CPAI
 PROPOSED: GKA ROAD
 IMPROVEMENTS

POA-2017-541, Ugnuravik River
 ConocoPhillips Alaska, Inc.
 Drawings dated November 8, 2017
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ROAD IMPROVEMENTS (11 of 16)

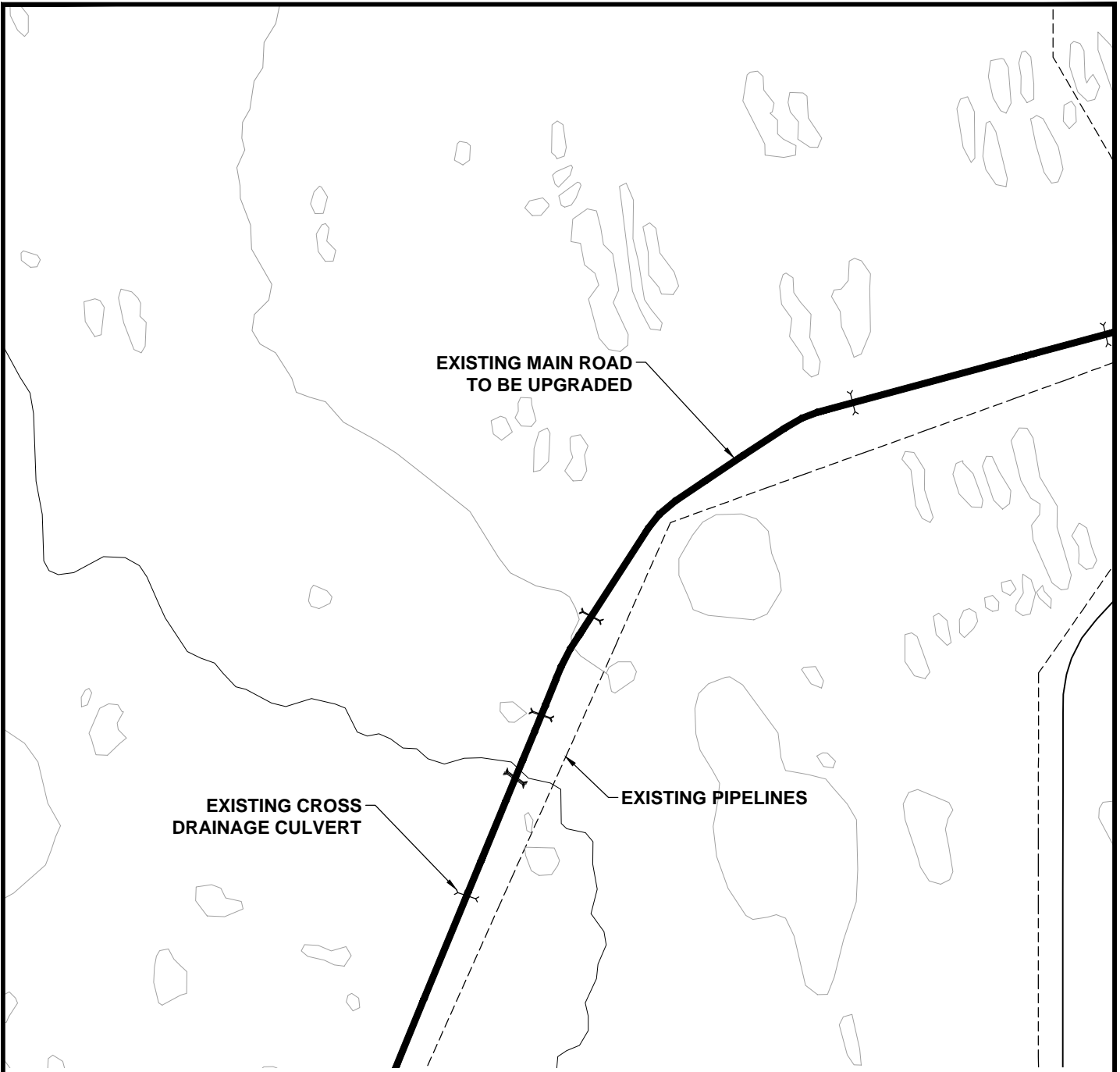


NOTE:
EXISTING CULVERT LOCATIONS ARE
BASED ON TOPOGRAPHIC SURVEY.



REFERENCE: 2017
 APPLICANT: CPAI
 PROPOSED: GKA ROAD
 IMPROVEMENTS

POA-2017-541, Ugnuravik River
 ConocoPhillips Alaska, Inc.
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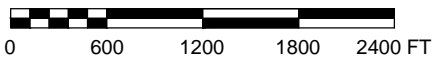


ROAD IMPROVEMENTS (12 of 16)

EXISTING CROSS DRAINAGE CULVERT

EXISTING MAIN ROAD TO BE UPGRADED

EXISTING PIPELINES

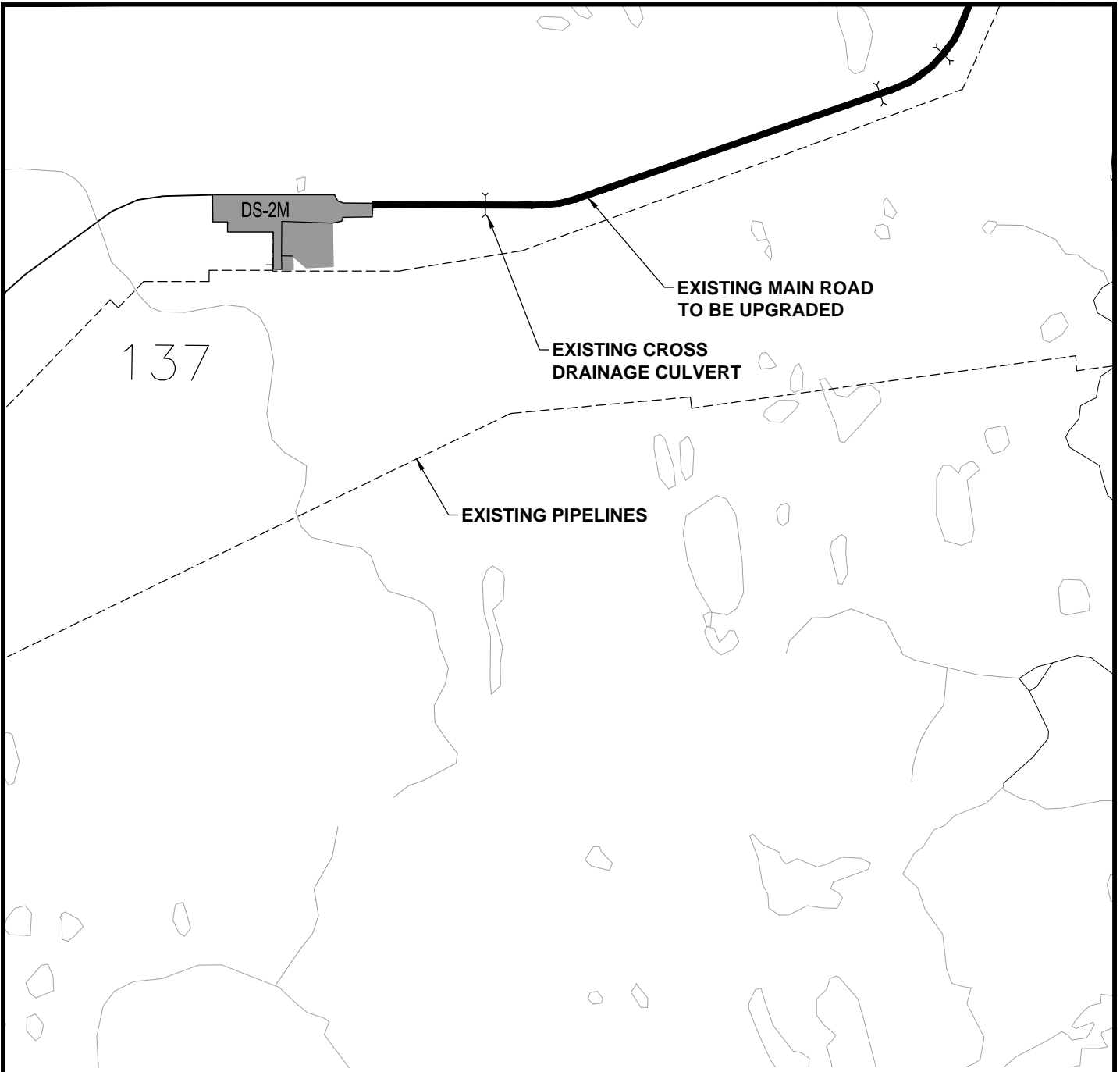


NOTE:
EXISTING CULVERT LOCATIONS ARE
BASED ON TOPOGRAPHIC SURVEY.

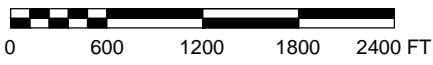


REFERENCE: 2017
 APPLICANT: CPAI
 PROPOSED: GKA ROAD
 IMPROVEMENTS

POA-2017-541, Ugnuravik River
 ConocoPhillips Alaska, Inc.
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ROAD IMPROVEMENTS (13 of 16)

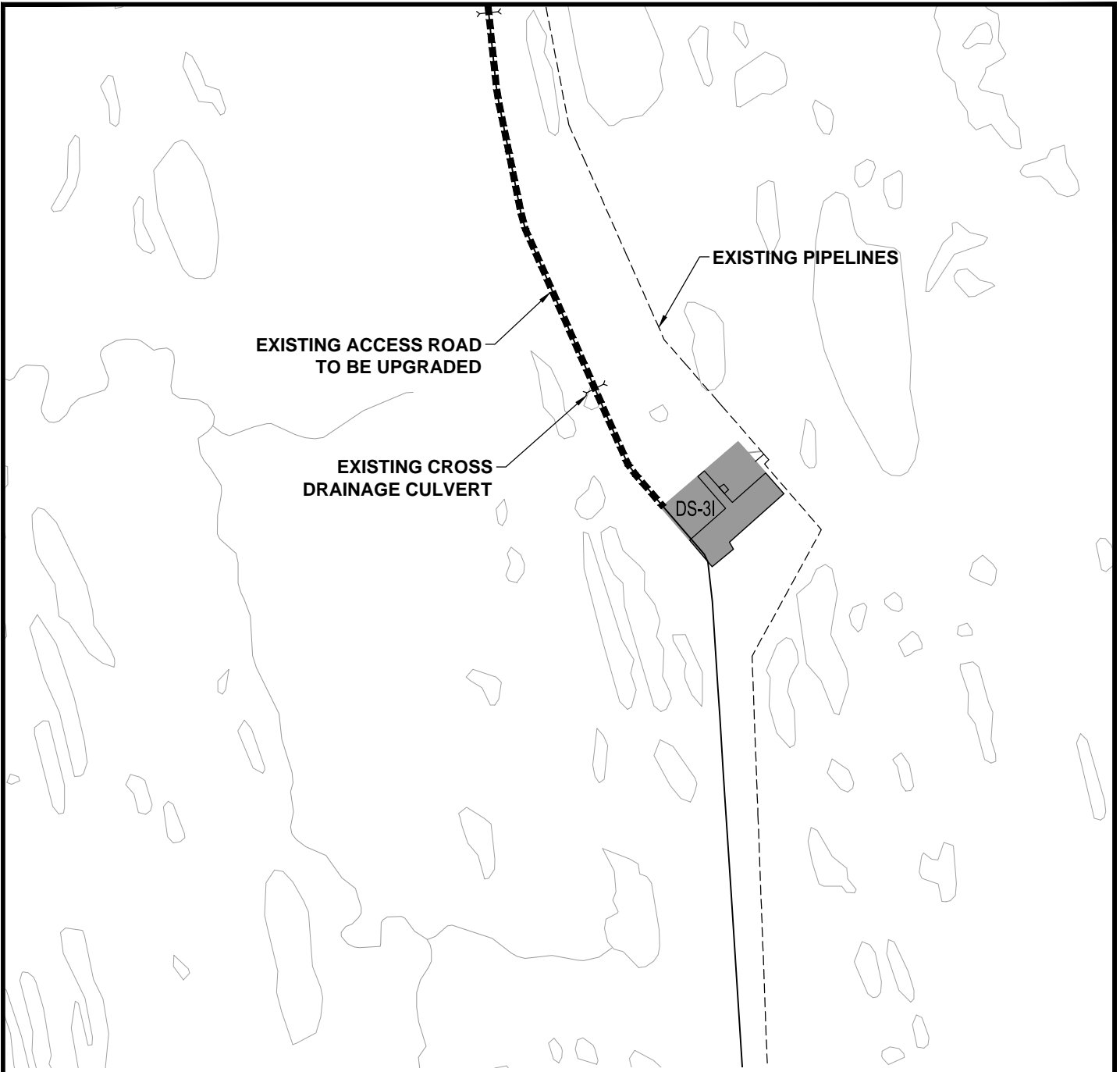


NOTE:
EXISTING CULVERT LOCATIONS ARE
BASED ON TOPOGRAPHIC SURVEY.

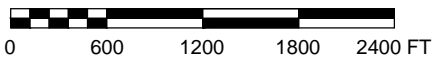


REFERENCE: 2017
 APPLICANT: CPAI
 PROPOSED: GKA ROAD
 IMPROVEMENTS

POA-2017-541, Ugnuravik River
 ConocoPhillips Alaska, Inc.
 Drawings dated November 8, 2017
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ROAD IMPROVEMENTS (14 of 16)

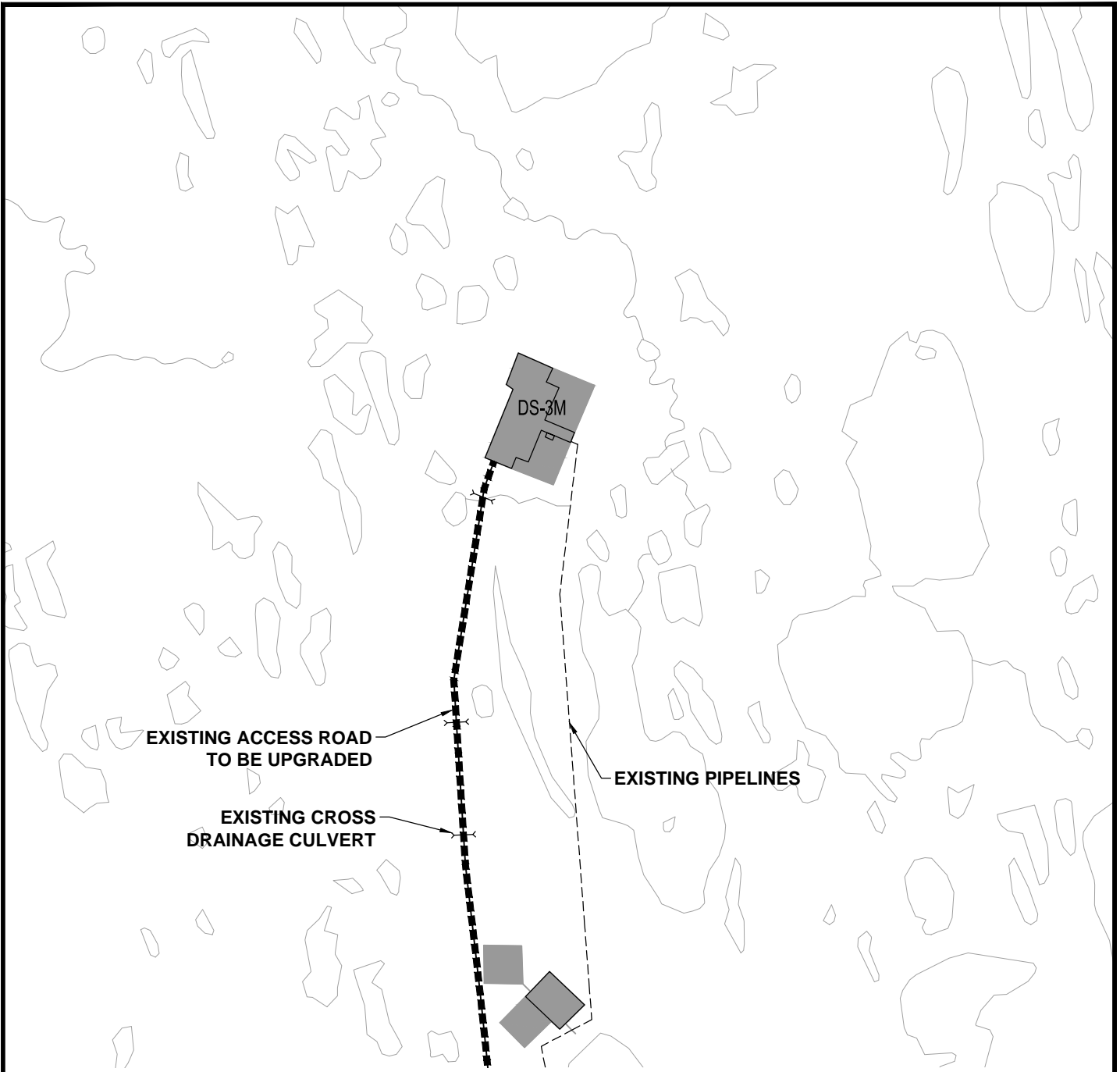


NOTE:
EXISTING CULVERT LOCATIONS ARE
BASED ON TOPOGRAPHIC SURVEY.

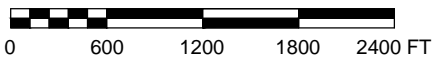


REFERENCE: 2017
 APPLICANT: CPAI
 PROPOSED: GKA ROAD
 IMPROVEMENTS

POA-2017-541, Ugnuravik River
 ConocoPhillips Alaska, Inc.
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ROAD IMPROVEMENTS (15 of 16)

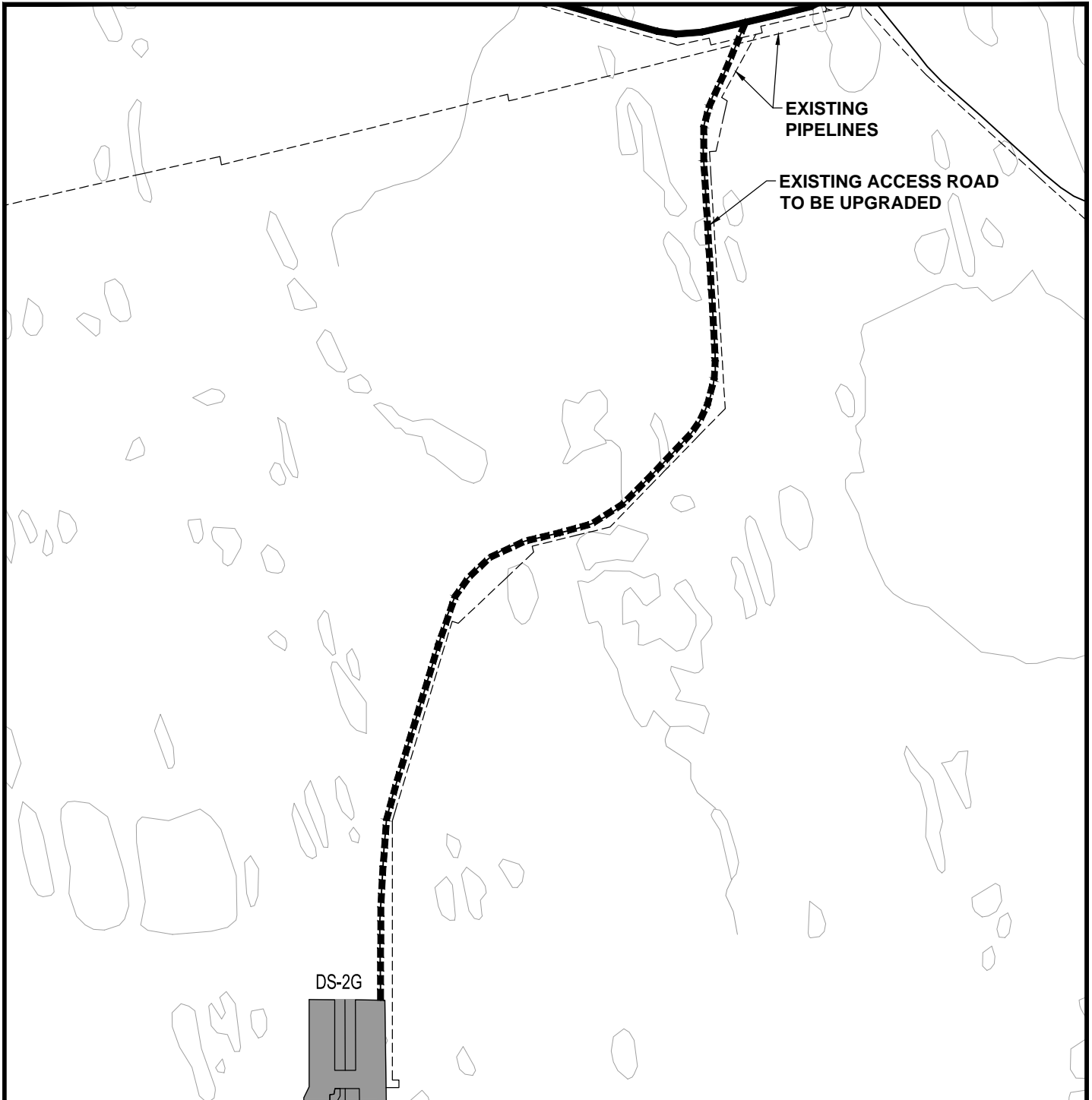


NOTE:
EXISTING CULVERT LOCATIONS ARE
BASED ON TOPOGRAPHIC SURVEY.



REFERENCE: 2017
 APPLICANT: CPAI
 PROPOSED: GKA ROAD
 IMPROVEMENTS

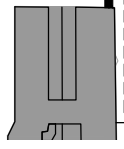
POA-2017-541, Ugnuravik River
 ConocoPhillips Alaska, Inc.
 Drawings dated November 8, 2017
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EXISTING PIPELINES

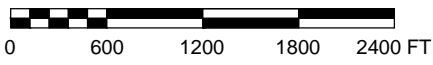
EXISTING ACCESS ROAD TO BE UPGRADED

DS-2G



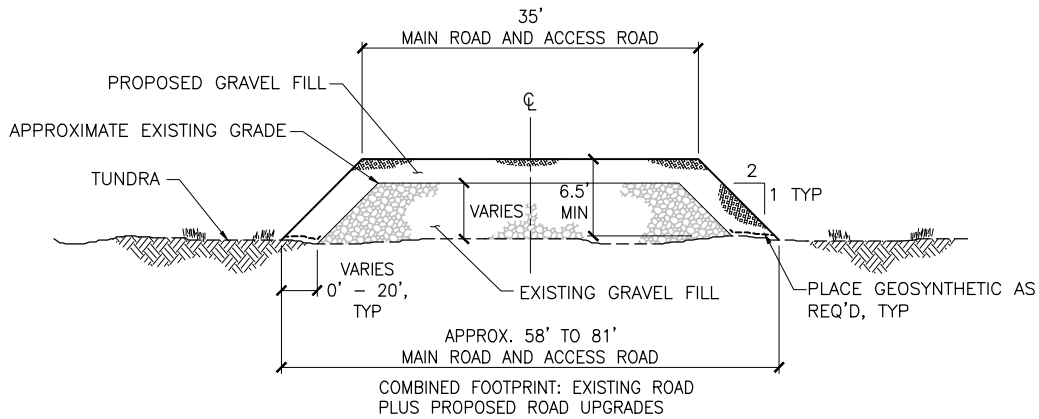
**ROAD IMPROVEMENTS
(16 of 16)**

NOTE:
CURRENT TOPOGRAPHIC SURVEY HAS NOT BEEN PERFORMED ON DS-2G ACCESS ROAD.



REFERENCE: 2017
 APPLICANT: CPAI
 PROPOSED: GKA ROAD IMPROVEMENTS

POA-2017-541, Ugnuravik River
 ConocoPhillips Alaska, Inc.
 Drawings dated November 8, 2017
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**TYPICAL MAIN ROADWAY AND ACCESS ROADWAY
IMPROVEMENT SECTION**

NOT TO SCALE

NOTES:

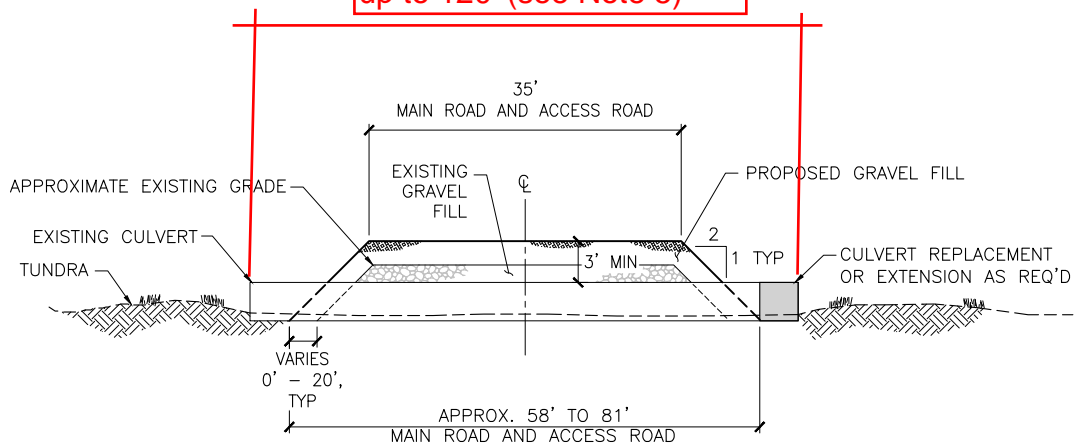
1. COMBINED ROAD FOOTPRINTS SHOWN ABOVE ARE APPROXIMATIONS BASED UPON TYPICAL ROAD PRISMS. ACTUAL FOOTPRINTS WILL VARY BASED UPON LOCAL TUNDRA FEATURES AND TOPOGRAPHY. ROAD WIDTHS MAY BE WIDER THAN DIMENSIONS INDICATED IN ISOLATED AREAS WHERE NATURAL TERRAIN DEPRESSIONS OCCUR, OR WHERE INFRASTRUCTURE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

POA-2017-541, Ugnuravik River
 ConocoPhillips Alaska, Inc.
 Drawings dated November 8, 2017
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Culverts may be extended up to 120' (see Note 5)



TYPICAL CULVERT CROSSING SECTION

NOT TO SCALE

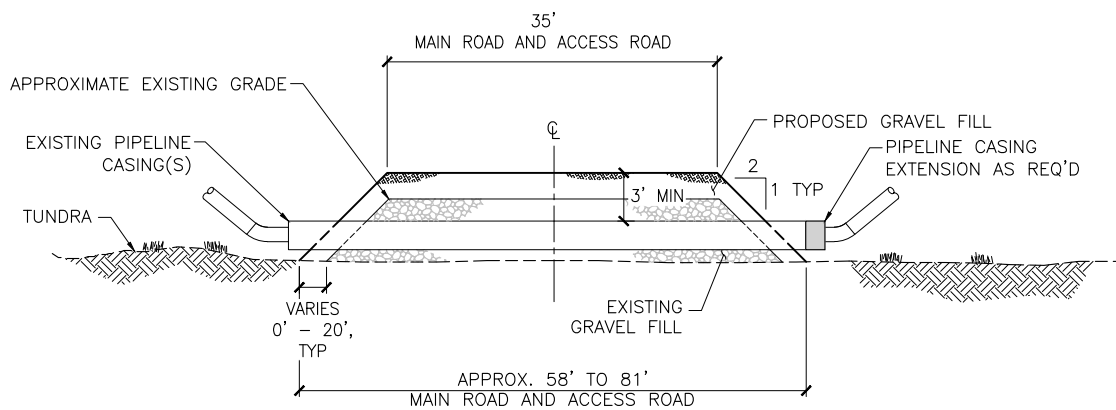
NOTES:

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



REFERENCE: 2017
APPLICANT: CPAI
PROPOSED: GKA ROAD
IMPROVEMENTS

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ConocoPhillips Alaska, Inc.
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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.



ConocoPhillips
Alaska, Inc.

REFERENCE: 2017
 APPLICANT: CPAI
 PROPOSED: GKA ROAD
 IMPROVEMENTS

POA-2017-541, Ugnuravik River
 ConocoPhillips Alaska, Inc.
 Drawings dated November 8, 2017
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